

PHARMACOPŌEIA

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PHARMACŒPŒIA

NOTE BY EDITOR.

THE improvements made in the present Edition are, —several directions for Pharmaceutical and Chemical Manipulation have been prefixed, the importance and advantage of which will be readily acknowledged; several new Medicines and Formulæ have been added, so as to bring the work up to the present improved state of Medical and Pharmaceutical Science. The Official Preparations of the principal articles of the Materia Medica, as adopted in the three British Pharmacopœias, as well as their medical uses, have been introduced, wherever it appeared necessary.

LONDON, *July 27, 1836.*

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P R E F A C E.

As physicians do not themselves prepare the medicines they exhibit to their patients, it is very convenient for them to intimate to the neighbouring retailers, whom the sick employ for this purpose, the medicines they are likely to order, and the mode in which they wish certain compounds, that require time for their preparation, should be kept ready in the shops: this, and this alone, is the true office of a Pharmacopœia. And indeed the Faculty of Medicine in Paris, in the Preface, to their Codex Medicamentarius, or Pharmacopœia, expressly disclaim any intention of hindering practitioners from using other remedies, or shopkeepers from keeping other articles, besides what are mentioned by them; and further observe, that they have inserted several popular medicines, although not likely to be ordered by the faculty themselves, in order that they may be uniformly prepared, and of course uniform in their action.

Before the publication of local Pharmacopœias, the apothecaries kept in their shops the six following books: Avicenna on Simples; Serapion on the same subject; Simon Januensis De Synonymis, and his Quid pro Quo on Substitutes; the Liber Servitoris of Bulchasin Ben Aberazerin, treating of the preparation of minerals, plants, and animals, similar to the chemical part of the modern Pharmacopœias; the Antidotarium of Johannes Damascenus or Mesue, arranged in classes like the Galenical part of our present Pharmacopœias; and the Antidotarium of Nicolaus de Salerno, containing these Galenical compounds, arranged alphabetically, of which there were two editions in use: in the common edition, or Nicolaus Parvus, as it was called, several of the compositions of the Nicolaus Magnus were

omitted, and those that were retained were directed to be made upon a smaller scale than in the other.

The London College of Physicians first published, or rather distributed amongst the apothecaries, a Pharmacopœia of their own in May 1618, selected from the two latter of these works, with a few additions from the modern authors then in repute; but this work was found so full of errors, that it was obliged to be called in immediately, the whole impression cancelled, and a new edition published in December following. This Pharmacopœia was published, like all the succeeding ones, in Latin; being intended, in the language of the preface, for the filii Apollinis only. Indeed, the college appear to have been very angry with Culpeper for translating it and the works of the principal authors on medicine into the vulgar tongue, refusing him, as it should seem, although educated at Cambridge, a licence to practise, and thus converting him into a bitter enemy. Unfortunately, the great popularity of his writings, still considered as classical amongst the common people, gave a currency to his opinions, and exposed the college to much obloquy.

The difficulties placed upon an admission into the college, originally with a view to confine the members to a small number, like the contemporaneous monopoly of the proctors of the civil and canon law, naturally led those who found themselves excluded to endeavour to evade its powers, at first by merely advising their patients to buy some medicine which had been prescribed by a member of the college for a similar complaint: a practice which some physicians, as Daffy, Goddard, &c., in Charles the Second's reign, endeavoured to counteract, by ordering a *nostrum*, which could only be had at their own house, or that of a confidential apothecary, in most of their prescriptions, communicating, however, the preparation to their fellow-members of the college under the seal of secrecy for their life; while others, as Merrett, Mortimer, &c., furnished their patients with the necessary medicines, without any other charge than their usual fee.

Afterwards the unlicensed practitioners, or apothecaries, did not think it necessary to confine themselves to recommending the prescriptions of physicians, but acted upon their own judgments, especially when the House of Lords decided the case of

the College v. Rose, for selling medicines not ordered by a physician to a patient, in their favour. Hence that preferable mode of the practice of medicine, resting entirely in the hands of prescribers, was altered, by the college confining their licences exclusively to those bred up in academical learning, which, however ornamental to its possessor, is certainly not essential to success in practice; not considering how much better it were to have had unlearned physicians for their brethren, than to convert the dispensers into rivals. It seems as if the college were afterwards sensible of their error, by their publishing a statute, inviting unlearned practitioners to be examined in the vulgar tongue, in any part of physic they might choose, and offering to license them for whatever department they might be found qualified.

Whether the state of medical practice, produced by the difficulties thus laid upon practising as a prescriber, is of advantage to the public, may be doubted; as, from the mode adopted to evade the laws respecting it, by the practitioner pretending only to sell medicine, patients are frequently obliged to swallow more medicines than are necessary, that the apothecary, or dispensing practitioner, may be compensated for his attendance. Those medicines must, in most cases, be made unpalatable, lest the patient should conceive himself to be furnished with mere slops for the sake of a charge being made. And, as the medicines are prepared by the practitioner himself, a patient standing in some peculiar circumstances may be poisoned without much danger of detection. It is but a few years since a respectable practitioner, in the west of England, was tried for this crime, to which he was supposed to be impelled by the desire of hastening the receipt of the patient's, his mother-in-law, property; and several similar cases have occurred both in England and France. Against all these disadvantages the public have only the convenience of having medical attendance and medicines upon credit. It is singular that the House of Lords did not, in their decision upon Rose's case, perceive the great danger that arose from allowing the compatibility of medical practice with the dispensing of medicines, which has long been forbidden in some of the best regulated continental states; in order that the dispenser may serve as a check upon the prescriber, advise with him if any accidental error is suspected to occur in the prescriptions, and by keeping the pre-

scriptions themselves, enable them to be exhibited in case of any untoward event occurring.

This danger has been greatly increased of late by the almost universal junction of midwifery with apothecary practice, since midwifery accustoms the general practitioner to consider the saving or destruction of a human life as a mere matter of calculation; as also by the recent extension of our knowledge respecting vegetable poisons, and by the great attention which is now called to the subject by the present fashionable study of medical jurisprudence; there being reason to apprehend, from the imitative habits of mankind, that reading detailed accounts of crimes rouses in some cases the latent sparks of vice, and at the best serves to perfect badly-inclined persons in devising the securest modes of effecting their purpose.

To the original Pharmacopœia some additions were made in 1627 and 1635; and in 1650 an improved edition came forth, to which further additions were made in 1677. No alterations of much consequence, however, were made until 1720, when a new edition was published under the auspices of Sir Hans Sloane. He being a botanist, the botanical names of the plants were added to the officinal names, which was a great improvement.

In a new edition, published in 1745, the system of curtailment, begun by the Edinburgh College in 1738, was pursued to a considerable extent, no compound being admitted but what had a majority of voices in favour of its insertion: it was also at first proposed to omit the drugs entirely, then to give only a list of those used in making up the compounds in the work; and at last a list was made out of those which the majority of the committee supposed to be the most efficacious, and the botanical names were omitted. In this edition, the college first began the practice of changing the names of articles, on account of the alleged impropriety of their significations—a practice which has since been carried to the greatest excess.

Respecting the curtailments that were thus made in this edition, and which have occasioned the decline of pharmacological knowledge among the profession, it may be observed, that the object of a Pharmacopœia being to fix the composition of whatever medicines physicians might be likely to order, it is evident that the very contrary course to that pursued by the committee

ought to have been adopted: the real duty of these committees seeming to be confined to correcting any defects in the standing medicines of the shops, to the rejection of those entirely obsolete, and the addition of whatever new compositions may be proposed by any of the members, after the best general mode of preparing them has been discussed; nor does it seem necessary to wait for a new edition for the regulation of these additions, which, when very active, as Prussic acid, vinum colchici, and the like, require an uniformity of preparation to be speedily instituted; as an official communication might be made to the society of apothecaries, the different medical journals, and the teachers of materia medica, for the information of the profession.

As the edition of 1745 excelled in Galenic pharmacy, the next, of 1788, may be regarded as the best compendium of chemical pharmacy the college has produced. Some new names were, indeed, introduced from Bergmann, but they were only such as the improved state of that science called for. In the Galenical compositions simplicity was pursued to the utmost, and probably to an injurious extent; since it is well known, that a mixture of drugs will frequently have more effect than the same quantity of either of them separately, and a mixture of spices is more agreeable than any of them alone.

The edition of 1809 is chiefly remarkable for the entire adoption of the chemical nomenclature of Lavoisier and his coadjutors. It does not appear that any necessity existed for this adoption of Lavoisier's names; since, although our experimental chemists had adopted this innovation, as being more conversant with the French authors, than with the 1788 edition of the Pharmacopœia, in which Bergmann's nomenclature of salts had been reduced to actual use, yet even the French school of mineralogy, little as that nation is inclined to prefer foreign usages, still follow the nomenclature of Bergmann, and therefore the retention of those names would not have been without precedent, even in Paris itself.

A preference was evidently given, in ordering the chemical preparations, to the moist way, with the idea of enabling the apothecaries to prepare this class of medicines themselves; but in fact the college might more properly have put the whole of them into the drugs, merely noticing the strength of some of them, as they have done with oil of vitriol and spirit of wine; and, following

the old models of Mesue and Nicolaus, have confined their directions to the Galenic department, since the chemicals are usually prepared in the country, where house-room, labour, and fuel are cheap, by manufacturers, who totally disregard the directions of the college. This being the case, the chemicals are not likely ever to be prepared by the apothecaries themselves; besides, much of the merit of chemical processes depends upon their concatenation with others carried on in the same laboratory, to make the waste of one process serve as the ingredient for another, a circumstance that cannot be considered by the college as depending upon an infinite variety of circumstances, but which has a most material influence upon the price at which the articles can be brought into the market; and it may be added, that the chemicals are always identical, or nearly so, in whatever manner they are prepared.

The Pharmacopœia printed in 1815 is only a corrected impression of the edition of 1809; and the new Pharmacopœia of 1824 is very slightly altered, in a few points, from its predecessor.

To enforce the performance of the directions of the Pharmacopœia, the censors of the college, and the wardens of the apothecaries, were, on the separation of the society of apothecaries from the company of grocers, empowered to search the shops of apothecaries in and about London, to destroy all they found unfaithfully prepared, and even fine the parties. The ill-will occasioned by this separation, and by the examination being referred to the apothecaries, was so great, that it was made one of the grievances complained of by the House of Commons in 1627; and from the answer made to this petition of grievances, by King James, in his last notice from the throne, a few months before his death, we learn that this separation was devised by our British Solomon himself*.

* Petition of the Commons (in 1624) to the King, complaining of divers grievances — [Cobbett's Parliamentary History, vol. i. col. 1491.]

“Apothecaries.] Whereas the apothecaries of the city of London have been anciently members of the Company of Grocers of the same city, and whereas the said grocers did and do far exceed the number of apothecaries, and did even buy and sell all manner of drugs as well as apothecaries, which drugs, at several times of the year, were by the President and Censors of the College of the Physicians searched out and viewed whether the same were useful or not; and whereas as well the said grocers, as others, did use to distil all kinds of waters, a great part whereof was transported beyond the sea, to your Majesty's great and yearly benefit. The said apothecaries, without the consent of the said grocers, obtained letters patent, bearing date 6th December, in the 14th year of your reign, whereby the said apothecaries are incorporated and divided from

While the apothecaries were only dispensers, this regulation could be strictly enforced; but when they changed into dispensing practitioners, and chemists and druggists opened shops under the sanction of the physicians, to supply the place of the old apothecaries for dispensing, and also sold perfumery, dye stuffs, paints, &c., this power of examination, when not employed as a means of vexation, as in Goodwin's case and some others*, dwindled of ne-

the Company of Grocers; by colour of which letters patent the apothecaries have appropriated to themselves the whole buying and selling of all drugs, and the whole distillation and selling of all waters within the said city, and seven miles thereabout. Which division from the grocers, without their consent, and the appropriating of the distillation of the said waters unto the apothecaries, and the sole selling thereof by them, is against the law, to the impoverishing of many persons and their families. Your loyal subjects, therefore, humbly pray your Majesty graciously to be pleased to declare the said letters patent to be void, and that the same shall not hereafter be put into execution."

It appears from pamphlets published on this subject, that the number of apothecaries in London, and within seven miles thereof, was at this time about 140.

The King's answer to such part of the Commons' petition as related to the apothecaries, in which he thus retaliates on them:

"Another grievance of mine is, that you have condemned the patents of the apothecaries in London. *I myself* did devise that corporation, *and do allow it*. The grocers who complain of it are but merchants; the mystery of these apothecaries were belonging to apothecaries, wherein the grocers are unskilful; and therefore *I think it fitting* they should be a corporation of themselves. They bring home rotten wares from the Indies, Persia, and Greece, and here with these mixtures make waters, and sell such as belong to apothecaries, and think no man must control them, because they are not apothecaries."

These quarrels between the apothecaries and grocers, respecting the distilling and selling of spirituous liquors and cordial compounds, were settled in 1639, by the distillers, rectifiers, and compounders being then made a separate company.

* The following is a history of the cases here referred to, as far as can be collected from the pamphlets preserved by Sir Hans Sloane, and now in the British Museum:—

The Apothecaries Company, soon after the subscription of a joint stock for trade, memorialized the Lord High Admiral, that the surgeons' chests fitted up by the London chemists were defective and furnished with bad articles: whereupon the Prince of Denmark, Lord High Admiral, ordered, 30th June, 1703; the surgeons of the King's ships to furnish and provide their chests at the Common hall of the Company of Apothecaries, "the said Company having assured me that they will furnish both good and cheap." They next endeavoured to obtain the supply of the East India Company, and obtained an order for that purpose; but the Company appointing a special committee of members having some knowledge in drugs and medicines to inspect their invoices, these were dissatisfied with both quantity and price, and called in two eminent wholesale apothecaries to join in a report to the general committee to this effect.

Upon this rebuff, the Apothecaries Company attempted to condemn some chests which had been fitted out by these two apothecaries; but not succeeding, they visited the shop of one of them (Mr. Lawrence), when the

...cessity into a mere recommendation to use better articles; as the
 retailer can assert that his customers require the deterioration
 of the article, being unwilling to give more than a certain

owner was absent, and took samples of his goods for examination at the
 shops of the managers of the Company, to purchase the same articles. On
 answering to the summons about his medicines, he said, that the samples
 were not fairly taken from his shop, as the medicines were not finished
 making, but that he had brought some with him, which he would stand by.
 He then produced the samples bought out of their own shops, which they
 immediately condemned. Upon this decision, he offered to bring forward
 the parties, who were waiting at the door, to swear that these very medi-
 cines had been bought at their own shops; but they immediately made the
 matter up.

The Company also wished to supply the Royal Household; but being dis-
 appointed, and Mr Malthus being appointed, they immediately visited his
 shop, and condemned his medicines.

Mr. Goodwin's case was different: he was a wholesale apothecary, and
 manufacturing chemist; he also supplied the Royal African Company with
 medicines for their forts, after much opposition from the Company of Apo-
 thecaries. Dr. Shadwell having bought some small articles of his, which
 were hooked, the collecting clerk, at Christmas, inserted the amount in his list,
 and called several times on the Doctor for the money, which was only a few
 shillings; vexed at the trouble given him for such a trifle, the collecting clerk
 got into a passion, and the Doctor threatened vengeance. Upon which, on
 the 10th June, 1727, the visitors came to Goodwin's house at Charing-Cross,
 during his absence on 'Change, and burnt many of his articles in the street;
 told a person who came to buy some oleum anisi, that it was not good,
 nor anything in the shop; and carried off, to justify their proceedings, some
 emplastrum meliloti, which had been two or three years in Africa, and had
 come back in a chest brought to be retted. They then went to another shop
 of his in Charles street, Westminster, and condemned the goods there, taking
 away a chest of articles to be examined. Mr. Goodwin did not sit down
 quietly under this injurious treatment, but appealed to the law, and recovered,
 I believe, 600*l.* damages.

It further appears from these pamphlets, that after supplying the East India
 Company for some years, the Apothecaries Company lost the supply, which
 was given to Bevin and Company, of Lombard-street, and Johnson of Fen-
 church-street. Upon which they procured a pamphlet to be written, entitled,
 "Breaches detected in Drugs," of which I have not been able to obtain a sight.
 This appeal seems to have been successful, for they again obtained the supply
 of the East India Company, which they still retain. Although they have lately
 lost that of the Navy, in consequence of the *as*, it is said, that took
 place upon their unsuccessful attempt to procure the supply of the Army also.
 It is probably on account of this loss, that *de*, the superintending
 chemical operator, has published "The Origin of the various Establishments
 for conducting Chemical Processes, and other Medicinal Preparations, at
 Apothecaries' Hall;" and inserted the whole in the Quarterly Journal, as
 being that which is most read among the higher classes of society, of authority
 in the State. Whether this puff-blow will be as effectual as the former
 pamphlet, remains to be seen.

- The pamphlets alluded to are:
1. Monopoly made a Property; or, the Navy Surgeon's Memorial to the
 managing Apothecaries in Black Friars. 1700. 8vo. pp. 76.
 2. The Case of James Goodwin, Chymist and Apothecary. 1727. Folio,
 pp. 4.

price—a plea which is much facilitated by the changes in the names of the compositions, so that the articles asked for by retail customers can seldom be legally considered as those now ordered by the college; or that in practising medicine he conceives the alteration to be of advantage to his own patients; or that they are not designed for medical use, but for some other purpose: hence the present mode of examination is of necessity confined to asking for the articles used by him in dispensing prescriptions; and this admits of an easy evasion, by keeping a small stock of choice articles. This power of examining drugs, &c. being lodged in the Society of Apothecaries, has also excited much ill will among themselves: for, although the real dispensers have no objection to any examination by the College of Physicians, or would even court it, as being their patrons; yet since some of the apothecaries have subscribed a stock to supply the public with drugs, compounds, and even lately to make up prescriptions, it has been suggested, that it is contrary to the general principles of British legislation, that fellow-tradesmen, and still less the stockholders of a corporation, trading themselves on a common joint stock in any articles, should be constituted examiners of them when kept for sale by others, especially as it has been asserted that there is an intention to oblige all licensed apothecaries to purchase their medicines at the Society's hall; but this is said to be a mere surmise, the offspring of the opposition with which the late Apothecaries' Act has been received.

The original idea of this Act certainly arose from the ancient and interminable dispute, respecting the comparative merit of a public or private education—or, as applied to medicine, between the methodics, who acquire their knowledge by attending the public schools of medicine, and practise upon the general principles there promulgated; and the empirics, who acquire their knowledge at home by the practical instruction of their parent, a private master, or solitary study, in every case for a much longer period than any apprenticeship, or course of academical study. But the immediate origin of the Act was a meeting

3. The Apothecary displayed; or, an Answer to the Apothecary's Pamphlet, called *Frauds detected in Drugs*; wherein his Profession and important Character is truly considered. 1748. 8vo. pp. 48. Extremely well written.

convened on the 3rd July, 1812, to consider the high price of glass, in consequence of the duty levied upon it. The trade being thus called together for the redress of one grievance, others were thought on; and after several meetings, they addressed, on the 5th December, in that year, a letter to the Colleges of Physicians and Surgeons, and to the Society of Apothecaries, that they conceived it necessary that a fourth *privileged body* should be established to license practising apothecaries and surgeon-apothecaries, and that the apothecary should possess a legal claim to moderate remuneration for his attendance and professional skill, under such modification as may hereafter be judged necessary.' As the three medical corporations declined joining in the proposed application to Parliament, the associated apothecaries themselves presented a petition to Parliament, 12th January, 1813, stating that several persons practised without any regular medical education, and that in consequence they could obtain few apprentices; whence they begged leave to introduce a bill, for regulating the practice of apothecaries, surgeon-apothecaries, midwives, and dispensing chemists. This was, in all probability, the first time in which the complaint of being able to obtain few apprentices was ever made to Parliament, although it was common for it to have petitions against masters taking too many apprentices. An unprejudiced observer could not be mistaken in the meaning of this petition to be the enhancing the price of apprentice fees; or in a just estimate of the double dealing, in professing one main object in their letter to the old corporations, and another to the Parliament.

That the apprentice fees should form so prominent a feature in the grievances of the apothecaries, arises from their being, in most instances, the means of a young apothecary discharging the debt incurred for his stock, &c., on setting up in business; and also forming a considerable part of his profits even when established. In consequence of these high fees, there are not wanting some notorious instances, even in London, of masters, whose principal trade is in apprentices; and as soon as they have received the fee, they use the apprentices so ill, that they are taken away by their friends; or, if this resource is denied them, the unhappy victims of this nefarious practice are at length driven to run away.

Accordingly a bill was prepared (as it should seem by Dr.

then Mr. Burrows, who had five hundred guineas presented to him for his *gratuitous* services in this affair), providing, that a fourth medical corporation of apothecaries and surgeon-apothecaries should be formed, the superior officers of which should be chosen by the majority of votes of the practitioners in London and its neighbourhood, with power to appoint subordinate committees in the country; that in future no person should practise as an apothecary, surgeon-apothecary, midwife, or dispensing druggist, unless they were members of the College of Surgeons, or Society of Apothecaries, without being examined by this body, under a penalty for each offence; that apothecaries and surgeon-apothecaries should either serve an apprenticeship, or attend some accredited school of medicine in England, Scotland, or Ireland, and undergo an examination of their proficiency; that if they practise surgery, they should also take a diploma from the College of Surgeons. Besides certain fees for the certificate of this examination, all these persons, and even those now practising as such, to pay certain sums for an annual licence, with power in the superintending body to refuse this licence in case of infamous or immoral behaviour. In consequence of this superintendence, apothecaries and surgeon-apothecaries to claim reasonable charges for their attendances, visits, and journeys; the penalties for practising as an apothecary, surgeon-apothecary, midwife, or dispensing druggist, to be recoverable by common informers, who were to have half the penalty; that apprentices should also pay a certain sum, part of which should be applied to the giving of lectures at the hall of the corporation.

It is a singular instance of the delusion under which the mind often labours, when self-interest is strongly excited, that the associated apothecaries should imagine a bill of this kind to pass without the strongest opposition from all classes, both of the profession and of the public in general. The College of Physicians could not see without jealousy the associated apothecaries placed upon a better footing than themselves, and allowed to sue for their attendance, which neither physicians nor surgeons can do. The Society of Apothecaries regulated their motions by those of the Physicians, yet could not but be jealous of a new corporation, formed upon a basis of contributions, and usurping their place. The College of Surgeons were apparently to be benefited by this

Act, which extended their authority over the whole kingdom; but as the governors are mostly lecturers in the hospitals, these must have been interested against the formation of a rival school; especially as this being connected with the examining body, must naturally have been preferred by the students: while the public could not but be alarmed at the encouragement given to that hateful class, common informers, and the inquisitorial idea of refusing an annual license, on the ground of such an undefinable thing as moral character, by which a person who had spent his life in the profession might have been ruined in his old age, upon some pique taken against him by the committee. Even the country committees could not be well pleased with their great subjection to the London superintending body.

In consequence of the opposition experienced in respect to this bill, it was amended, and much art was certainly displayed in attempting to interest all the opposing parties, except those who were in fact the two parties against which it was originally levelled, namely, the female midwives and the chemists and druggists*; although, from the language held out to the public in general, they were led to suppose it was intended against advertising quacks and nostrum-mongers. An attempt was made to interest the government in the bill, by offering that the indentures of apprenticeship should have a stamp of 25*l.* on them; and if the party had not served an apprenticeship by indenture, that his certificate of examination should bear the same stamp: a proceeding singularly at variance with the preamble of the bill, which stated, that in the present depressed state of medicine, the apothecaries and surgeon-apothecaries could not obtain a sufficient number of apprentices to supply his Majesty's naval and military services with medical practitioners. And, aware of the influence of the female sex, their interest was attempted to be

* The English apothecaries are desirous of securing to themselves the dispensing of physicians' prescriptions, as being a very profitable branch of their business, and thus to restrain the chemist and druggist to the retailing of simple articles only. It is singular, that in Paris, although a similar difference between these two branches of the profession exists, yet the circumstances are entirely reversed: There the chemist and druggist (apothecaries) complain of the dispensing practitioners (herbalistes) selling the preparations of the Codex, making up prescriptions, and even visiting the sick, which is rigorously forbidden to the French apothecaire; but for which the herbaliste gets a licence, by attending the schools of medicine, and undergoing an examination.

secured by a proposal made in the committee, but not appearing in the bill, that the licensing money should be appropriated to the use of the widows and orphans of medical men.

In spite of these manœuvres of the associated apothecaries, it was speedily discovered, that even in this amended state the bill was not likely to pass into an act. They therefore gave notice, that they meant to expunge everything relative to the compounding chemist and druggist, to the erecting of a medical school, or to the uniting of the heads of the already constituted medical bodies with the superintending body; and, indeed, confined their views entirely to causing apothecaries and surgeon-apothecaries to be examined as to their proficiency, and to obtaining for them a different mode of recompence for their visits and professional skill: but not a word about the original object, the procuring of apprentices. Feeling, however, that the hostility against the bill was still too active for them to encounter, the idea of forming a fourth medical corporation was given up by the associated apothecaries; but as more than a thousand of the apothecaries had thus agreed to a taxation of their apprentices, and urged the necessity of their attending certain courses of lectures before setting up in business, although they had, in signing the indentures of their own apprentices, covenanted to teach them the whole art and mystery of an apothecary; by which these men proclaimed to the world their own remissness in performing their engagements, the Society of Apothecaries seized the opportunity of extending their controul from London and its neighbourhood, to one over the whole kingdom, and of raising a revenue for their own members by taxing the apprentices, not only of their own members, but also of all apothecaries, when they should wish to set up in business. Accordingly, a new bill was brought into Parliament by this Society, which, after some opposition, passed on the third reading, by a single vote, at the moment the House was breaking up for the session.

This Act, repealing the power of the Society of Apothecaries of examining medicines in shops, houses, cellars, &c., in and about London, substitutes for it the power of examining the medicines in the "shop or shops" of apothecaries through England and Wales, with power of fining the party if the medicines are not found good; the first time 5*l.*, the second 10*l.*, and every

succeeding offence 20*l*. It is expressly declared, § 5, to be "the duty of every person using or exercising the art and mystery of an apothecary, to prepare with exactness, and to dispense such medicines as may be directed for the sick by any physician lawfully licensed to practise physic;" and it directs apothecaries refusing to compound, or unlawfully compounding such medicines, to be fined upon the complaint of a physician, the first time 5*l*., the second 10*l*., and the third to be rendered incapable of practising "as an apothecary," unless he promises, and gives sufficient security, not to offend in future. Persons not already in practice on August 1, 1815, to be examined by twelve persons, appointed by the Society of Apothecaries, "to ascertain the skill and abilities of such person or persons in the science and practice of medicine, and his or their fitness and qualification to practise as an apothecary:" who are "empowered either to reject such person, or to grant a certificate of his qualification." None to be allowed but those who are twenty-one years old, who have served an apprenticeship of not less than five years to an apothecary, and who shall produce testimonials of a sufficient medical education and of good moral conduct. Assistants who have not served a five years apprenticeship to be examined either by the Society, or by apothecaries to be appointed in each county for that purpose. Each apothecary to pay 10*l* 10*s*. for a licence for London and ten miles round, or 6*l*. 6*s*. for a country licence, and 4*l*. 4*s*. in addition, if he moves to London, and each assistant 2*l*. 2*s*. Apothecaries acting without licence to forfeit 20*l*. for each offence, and assistants 5*l*., and not to recover charges in any court of law, unless it is first proved on the trial that he is duly licensed, or was in practice before August 1, 1815. If the examiners refuse a licence to a person, he may apply again in not less than six months for an apothecary's licence, or three months for an assistant's; and "if on such re-examination he" appears "to be properly qualified," the examiners to grant a licence. (No mention is made of rejection on this re-examination, nor of any other than this second application.) A list to be published annually of those licensed in that preceding year, with their respective residences. This part of the Act has not been complied with; nor indeed would it afford much information, as the usual

class of the parties examined is most certainly a temporary lodging near the hospital at which they attend. The money fine seems to belong to the Society of Apothecaries; but the penalties for offences to be given, half to the informers and half to the Society. Penalties above 5*l.* recoverable by a ~~person~~, in the name of the master, &c., of the Society, in any court of record; and under 5*l.* by distress, by warrant from any justice of the peace; and if not sufficient distress, the person to be imprisoned without bail for a time not exceeding a calendar month. (How a penalty of exactly 5*l.* is to be recovered does not appear on the ~~bill~~.) *Not to prejudice or in any way affect the trade or business of a chemist and druggist in the buying, preparing, compounding, dispensing, and vending drugs, medicines, and medicinal compounds, wholesale and retail; but all persons using and exercising the same trade or business, shall and may use, exercise, and carry on the same trade and business in such manner as fully and amply, to all intents and purposes, as the same trade or business was used, exercised, or carried on by chemists and druggists before the passing of this Act.* The rights and privileges of the Universities, and the Colleges of Physicians and of Surgeons, and the Society of Apothecaries, are fully reserved; and all actions limited to six months next after the fact committed, or the ceasing thereof if there was a continuation.

The associated Apothecaries and Surgeon-apothecaries did not oppose this bill; yet they objected strongly, and still object, to the clause which obliges a licensed apothecary to compound faithfully the prescriptions of physicians, as keeping them still in the rank of tradesmen, by obliging them to be sellers of medicines, whether they would or not.

This Act has had the singular fortune of being violently opposed, as insufficient, by those who were its original promoters, of being esteemed as a burden by many of those whom it was meant to benefit, and of being looked upon with indifference by those against whom it was intended to act, since the Act was altered and restricted to those who "practise as apothecaries," with an express declaration that it did not extend to the chemists and druggists, whose shops are in general confounded with those of the apothecaries, and whose business differs as other-

The originators of the Bill were displeas'd with the supposed ambiguity of the words "to practise as an apothecary." It is true that it took one hundred and fifty years of litigation, to determine the meaning of the phrase "to practise physic," as used in the statute of 15 Henry VIII. For the Court of King's Bench, always adjudg'd, that this expression did not allow a seller or dispenser of medicines, that is to say, an apothecary, to give his advice to sick persons, as to what medicines it might be advantageous for them to take; and even went so far as to give verdicts, at the instance of the College of Physicians, against persons for selling articles accompanied with a printed description of their virtues, as coming within the legal meaning of this phrase. Yet, when in the case of the King v. Rose, an apothecary, for practising physic by selling a patient such medicine as he judg'd proper for his disorder, a more determin'd stand was made, and the matter carried into the House of Lords, as the dernier resort of law, they determin'd the matter in favour of the sellers of medicine; and this decision is the authority by which all dispensing practitioners now practise physic, as sellers only of medicines. Whether "to practise as an apothecary?" will take as long to determine, must be left to time. The question will probably remain in this undetermin'd state, until the parties whom the Society of Apothecaries, or rather their neighbours who are licentiates of that society, prosecute for practising as apothecaries, although they disclaim that title, shall unite for their mutual defence, and follow the example set by the apothecaries themselves in 1721, by an appeal to the definitive sentence.

of the House of Lords, whether all dealers in medicines have the same right to recommend the use of them to purchasers, and to go to their houses to receive orders, in the same manner as the dealers in other commodities. It were to be wished that the Barbers' Company of London would form a point of union for those practitioners to whom it is inconvenient to apply to the Society of Apothecaries for a licence.

The use of the licence of the College of Physicians being mainly to assure the public that if a patient should send for a licentiate, who is not known to him or his friends, there is a moral probability that this person, practising under the title of a physician, will be found deserving of their confidence; so it should seem that the object of the Apothecaries Act is certainly to give the public a similar assurance, that a person who exercises the medical profession under the title of an apothecary, has gone through a certain routine of education, and may therefore be reasonably judged capable of performing what is required from him in that profession; whereas, in committing themselves to the care of those who practise under other titles, patients do it at their own peril, and are guarded only by the general responsibility of all practitioners to the common law of the land, which gives damages to those injured through their gross neglect. As the privileges of the College of Physicians do not hinder apothecaries, according to the above decision of the House of Lords, from practising under a different title, in order that the public may not mistake the proper rank of the practitioner, so it seems probable, especially since the repeated rejection of the Surgeons' Bill, that although the courts of law, sticking to the letter and neglecting the spirit of the law, may grant verdicts in many cases against retailers who have incautiously visited sick persons, the legislature neither does nor will become a party to establish a medical monopoly throughout the country, but intends to leave the practice of medicine and surgery open to free and honourable competition, only preventing persons from practising under the cover of titles by which they are liable to be confounded with others who have gone through a certain course of study. Indeed, the obliging persons who have a strong natural genius for medicine to transport themselves to some foreign clime, because the poverty or waywardness of their parents prevented them from

, which is most advantageous to both the public and the practitioner himself, namely, as a physician, inasmuch as his prescriptions are open to investigation, by the College requiring the party to have been educated for a certain time at some particular schools, has eventually and gradually led to the prevalence of a different state of medical practice, by obliging those persons, who had not been educated in the prescribed manner, to evade the restraints, and, however desirous of joining the College, to become the rivals of the physicians; while the mode of evasion, by imposing on these persons a commercial character, has led to their giving credit for the medicines they supply, and thus procured for them a preference amongst the middling classes. Hence, it is supposed, there is some danger, lest the operation of the burdens imposed by this Act should throw the present business of the apothecaries into other channels, as the cuppers, who already begin to increase in number, or the chemists and druggists.

The first hardship complained of is that which obliges all country apothecaries, from even the smallest villages, after their apprenticeship is expired, to go up to London, and stop there for six months and upwards, which is a heavy expense, totally out of the power of many, and in some cases attended with the hazard of another practitioner settling, during their absence, in the place: hence these must of necessity evade the Act by setting up as surgeons, or as chemists and druggists, trusting to the confidence their friends and acquaintance may repose in them; and thus, as their apprentices cannot in either case be received as apothecaries, the number of the profession is gradually lessened;

and that of its rivals increased. In this respect the Act goes beyond the 5th of Elizabeth, which only required the mechanics of corporation and market towns to serve an apprenticeship, but left the villages free from this restriction. The experience of two centuries has shown the impolicy of this Act, in the decay, or at least the stunted prosperity, of the towns subject to this law, and the rapid progress of Manchester, and many other villages, in consequence of their being free for the exertion of genius in whatever line a person chooses to employ himself, and in the improvement made in the manufactures of those places, by allowing the free competition of all. It is, therefore, singular that so many members of a profession justly esteemed liberal, and from whom we might, therefore, expect a correspondent liberality of sentiment, with these examples before their eyes, should have been so blinded by the interested measures of a few artful leaders, as to lend their support to the application of this Act, in less than thirteen months after the mechanics had procured (18th July, 1814) a repeal of the apprentice law of Elizabeth, except so far as regards the city of London, or the bye-laws of those corporations, or companies, who may choose to impose those fetters on their own freemen. It must be allowed, that the original bill, proposed by the associated apothecaries, was more liberal in this one respect; for it allowed persons to apply for a certificate who produced either their indentures of apprenticeship, or testimonials of a regular medical education, or of proper attendance in some accredited school of medicine; whereas the present Act positively requires an apprenticeship of not less than five years to an apothecary, and thus goes beyond the education required by the College for a physician, which is only two years' study in the university in which they take their degree. This evidently shows that it is not the public good of obliging apothecaries to have undergone a certain course of studies previous to practising, but the private good of securing apprentice fees, as stated by the associated apothecaries in their original letter. It seems also necessary that the apprenticeship should be served in England or Wales.

It is also considered as an aggravation of this hardship, that although a person, after serving a regular apprenticeship of five, or even eight years, may have also practised as a visiting assis-

tant, for years, to the satisfaction of the patients of his master; yet he is prevented from even offering himself for examination, previous to setting up in business for himself, without pursuing, at a great expense, a second course of study, certainly of an inferior nature to apprenticeship when the master does his duty; since no one can suppose that much can be learned by a few hours' attendance on the most celebrated lectures in London, especially as the necessary attention to pecuniary matters obliges the pupils to hurry from one lecture to another, without first digesting what they have just heard.

As to the examination itself, although no person, intending to set up in business, ought to object to this test of his abilities, if fairly conducted, without any private predilection to the interest of particular teachers, by favouring their scholars, and endeavouring to remand those of other teachers; yet it is alleged that, however advantageous examinations may be in public schools, to create an artificial interest among young men of property, who have no other stimulus to excite their exertions; or however proper it may be for the superior medical officers of the military and naval services, to examine the qualifications of those seeking medical or surgical employment in those departments, or even the examination of candidates for the fellowship or licence of the College of Physicians, or for becoming a member of the College of Surgeons, considering these as honorary testimonies of superior abilities and education to the ordinary practitioners; yet the examination of an apprentice in favour of the public is a novel measure and useless, since he has the stimulus of profit to lead him to perfect himself in his art. It is, indeed, true that similar examinations take place in other countries, but they are in favour of the apprentice against his late master; if the apprentice be not found competent, the master is fined so much as the wardens of the trade think it reasonable he should give to another master to be fully instructed. May it not admit of some doubt, whether the covenant to instruct the apprentice fully in the mystery of his business, does not enable a person, remanded for insufficiency, to recover by law, from his former master, the expenses incurred by such rejection, for deficient instruction in his art?

It is also objected to this Act, that the monies levied from the

licentiate is not applied to any public use, as was intended by the associated apothecaries, but that it is taken to the use of a private London society. It has been answered, that this society keep a botanic garden, have botanic excursions and demonstrations, and even lectures on materia medica; but these are not open, either to the licentiate or their apprentices, being confined to the apprentices of the members of the society.

However much the totally unprecedented extension of the Apothecaries' Act to villages may be deprecated by every liberal-minded person, it is certain that this Act, by the Society of Apothecaries rendering the examination as efficient as the time will allow, and making it necessary that three of the examiners should sign the certificate, or seven of them vote for the person under examination being remanded, has already had the effect of obliging a few careless youths to be more attentive to their studies than heretofore, through the fear of being remanded. The prevailing error, and which is fostered by this Act, is to consider the mere passing of the examination as the great object to be obtained, rather than the acquirement of that general knowledge, without which an apothecary cannot perform the duties of his profession with honour to himself, and with benefit to his patients. Some teachers of medicine, knowing the importance attached by students to passing examination at the Hall, undertake to *cram* their pupils for an additional hour daily, under the name of examination; and so much does the taste for this parrot-like instruction prevail, that the majority of pupils would rather absent themselves from any other, or even all the other pursuits, than be absent from this mock examination by these *grinders*.

Whether the public will be ultimately benefited by these attempted restrictions upon medical practice, is even already doubtful. The licensed practitioners, it appears from the public papers, presuming upon their freedom from competition, often refuse to give medical assistance to the poor in accidents, until their remuneration is guaranteed to them: they have even taken the opinion of counsel, whether they might not disobey, unless their expenses are tendered them, the coroner's warrant to give their evidence in cases of murder, &c. although all other persons, of whatever rank, are obliged to attend, as a personal duty owing

to the state, and they have further proposed, that the bodies of the poor, who die friendless, or of unknown travellers dying on their journey, shall be delivered to them for dissection. This proposal is a nefarious one, in a country where dissection forms a part of the criminal law, as a punishment for the most heinous crimes; and which is thus to be inflicted upon innocent persons, provided they are friendless in the place where they happen to die. The first object of anatomists should be, to get this punishment set aside, as the greatest obstacle in the way; and then, as to the supply of subjects, the practice of the German and Swedish Universities, in carrying the bodies of the professors and servants of the University to the anatomical theatre for inspection before burial, is the most rational, and might be extended to the whole medical faculty, their wives, and children under age and unmarried, by an Act ordering their bodies to be carried to the nearest hospital, or the senior surgeon of the hundred, &c. for dissection. If the medical faculty set the example, by soliciting an act to this effect, and thus showing that they do not ask to treat the bodies of others any otherwise than they are willing their own corpse and those of their families should be treated, after the performance of funeral rites over them, there can be little doubt, but that the friends of other deceased persons would, in a very short time, allow the examination of the bodies, or even sell them for complete dissec-

Thus those who are benefited by the practice of dissection alone be forced to contribute their bodies to this purpose, not the poor and friendless. If the supply thus obtained was not sufficient, the bodies of the benefited clergy, and of the holders of offices under government, with those of their wives and children, would surely suffice; and the tacking this condition to the acceptance of these charges and offices in future, would injure none.

As to the forcible suppression of home-bred, or even unlearned empirics altogether, the trouble and expenses of a law-suit, and the obloquy that attends those who attempt to deprive a man of the fruits of his industry and skill, through the want of technical formalities, are so great, that it is only the strong stimulus of personal enmity, or a feeling that the licentiate's interest is deeply involved in getting rid of a popular neighbour, that

would censure prosecution. The grossest ignorance and real unskillfulness, therefore, escapes when clothed in the garb of poverty, and especially considering the facility with which the poor slip from the fangs of the law, by changing their residence, as it would never be worth while in such case to hunt them out, even if it were possible. Hence it is only the active and intelligent practitioner, like Sutton the inoculator, that is likely to be prosecuted, because by such as him alone can the neighbouring licentiates be seriously injured.

In this respect, the present Act is far preferable to that contemplated by the associated apothecaries: namely, that it does not make the practising as an apothecary unlicensed a public crime; but by directing the prosecution to be carried on in the name of the Master, &c. of the Society, moderates the extreme severity of the penalties, which have been adopted from the former Bill, of 20*l.* for each separate act of practising as an apothecary, which may bring it to several hundred pounds a day; whereas, the penalty for practising as a physician, even in London, is only 5*l.* a month, and practising for less time than a month is not cognizable by the College. Indeed, the Society of Apothecaries seem so sensible that a jury would never find a verdict to the full amount, that in all the prosecutions hitherto undertaken, they have constantly declared for one penalty only; and they are charged by their licentiates, and particularly by those in the country, with not sufficiently securing to them, by prosecutions, the monopoly of the practice in their neighbourhoods. But the Society appears to be perfectly aware that the want of success in any one lawsuit, or even the expenses of many, although they were successful in all of them, would outweigh any possible benefit which could arise from a rigid exercise of their power, and the instant prosecution of all unlicensed practitioners; which, by creating a great sensation in the country, would probably lead to a repeal of the Act itself, which was procured with such difficulty, and deprive the Society of the profits they now derive from it.

Moreover, as to the real justice of attempting the forcible suppression of empirics, or home-bred practitioners, however mortifying it must be to the pride of the philosopher, or the intense labours of the scholar, truth will oblige the historian of the prac-

lice of medicine to confess, with a sigh over the vanity of human learning, that our choicest remedies, and our most approved modes of cure, are generally, if not universally, derived from empirics, and those the most unlearned; and that, however the methodics, or school-bred practitioners, have laboured to explain the modes of action, and the reasons for the effects produced, they have done little or nothing towards the improvement of the practice.

It must be owned, indeed, that it is not a little mortifying to a practitioner educated in the best medical schools, to see himself cast off for the advice of an empiric, especially as this rejection is not confined to the soldier or the ploughman, but happens even in the palace, where although on the first accession of disease the school-bred methodic, who practices in a general way, is consulted; yet, if the disease proves tedious, the confidence of the patient is shaken, the school-bred attendant is dismissed, and the patient throws himself into the power of some home-bred empiric, of known experience in the medical art, although, in other respects, perhaps the rudest and most ignorant of his neighbours, whose medicines are taken and his directions followed with that implicit obedience and faith, which had they been given in the first instance to the original practitioner might have had the desired success.

And it may be finally remarked, that the home-bred practitioner, although he is frequently ignorant, notwithstanding his thirst for knowledge, because his poverty obliges him to content himself with any old medical books that may accidentally fall in his way, yet he is not the enemy of the school-bred practitioner, and in general a paltry rival, because he scarcely practises, except in remote villages, or upon the poor, who cannot afford the attendance of a regular-bred man, or in chronic cases which have been previously treated by the school-bred practitioner until the patience of the sick is exhausted.

The real enemies of the fair practitioner are those persons who, impelled by a commercial rather than a philosophic spirit, become nostrum-mongers, and frequently in defiance of their better knowledge, recommend, in pompous terms, some inert or dangerous medicine to the notice of the sick, and thus encourage them to practise upon themselves. A practice of the most

hazardous kind; to which, indeed, the rashest trials of the most ignorant village empiric, who derives the whole of his book-learning from a well-thumbed copy of some old black-letter herbal, are comparatively safe; since, in the latter case, there is some chance that his own experience may enable him to perceive his error in time to retrieve it, and at the worst a salutary caution would be inculcated, and a repetition of the trial avoided.

The true method of combating the enemies of the fair practitioner, is not by soliciting harsh penal laws against practitioners who have studied at certain schools, or who have not been apprenticed to medicine by their parents. For as the sick, disregarding the existing jealousies between the several ranks of the medical profession, will solicit the advice of those persons in whose knowledge they place confidence, the attempt only leads both practitioners and patients to invent modes of evasion, and widens the breach between the different branches of the profession. If we reflect upon the existence of smuggling in spite of the whole power of government arrayed against it, and the great rewards offered to discover offenders, we shall be convinced that no legal restraints, however strictly worded, can forcibly restrain the practice of medicine to any set of monopolists, as long as both patients and unlicensed practitioners have a common interest to elude them: while the attempt only produces irritation on both sides, and prevents persons, having a common study and interest, from meeting in good fellowship together, and is thus highly derogatory to that enlargement of mind which ought to distinguish the members of a scientific profession. The right mode is, surely, to rest content with securing their proper distinctions to those who have gone through the trouble and expense of obtaining them, and on the other hand, bestowing these honorary distinctions only on those that merit them; but leaving the sick and their friends perfectly at liberty to search for relief wherever they think it most likely to be found—thus creating an honourable competition and rivalry, instead of that continual bickering which at present pervades the different branches of the medical profession; as they may be well assured that the mass of mankind are not so blind as to be incapable of judging in a matter that so nearly concerns them as their health, or so inattentive to their own interest, as not to

prefer those practitioners whose greater success in practice shall attest their superior skill; while the attempt to establish a monopoly, if we may speak the truth, only tends to render those licentiates, who thus procure the prosecution of their home-bred neighbours, to be suspected of real ignorance, and afraid of the collision of open and fair competition.

WEIGHTS AND MEASURES.

MEDICINES, except a few hereafter mentioned, were formerly sold, and the prescriptions of physicians made up, by the common English weight, called Avoirdupois. The ounce of that weight being then, as appears by all the old authors on arithmetic, subdivided into 8 drams, 24 scruples, and 480 English grains; the medical pound differing from the common by its containing only twelve ounces, while the Troy ounce had for its fractions pennyweights and Troy grains. The College of Physicians having at length, in the 1720 edition of the Pharmacopœia, ordered the drams, scruples, and grains to be adjusted to the Troy ounce, hence, as the dispensers of medicines were the only persons who used these small weights, those adjusted to the Avoirdupois ounce went out of use, and were no longer made, and the quarter ounce was the smallest Avoirdupois weight in common use, as it still continues; but as the Italian rotolo for raw silk has been adjusted to the Avoirdupois weight, and made 24 ounces a pound; a smaller weight, the Spanish adarme, equal to the 16th part of the Avoirdupois ounce, was used under the name of a dram, for weighing silk, and this has now become an established fraction of this ounce, but it is scarcely used by any other persons than haberdashers, and for all weights less than the quarter of an ounce Troy, Apothecaries' weights are employed, although, as the Avoirdupois pound is established by statute at 7000 Troy grains, the quarter ounce containing 109 gr. 375, and the dram 27 gr. 34375, are most inconvenient numbers for reduction.

TABLE OF AVOIRDUPOIS WEIGHT.

Commercial Fractions.	Troy Grains.	Decimal Fractions.
1 pound	7000.	1.0000
15 ounces	6562.50	0.9375
14 „	6125.00	0.8750
13 „	5687.50	0.8125
12 „ or $\frac{3}{4}$ po'	5250.00	0.7500
11 „	4812.50	0.6875
10 „	4375.00	0.6250
9 „	3937.50	0.5625
8 „ or $\frac{1}{2}$ po'	3500.00	0.5000
7 „	3062.50	0.4375
6 „	2625.00	0.3750
5 „	2187.50	0.3125
4 „ or $\frac{1}{4}$ po'	1750.00	0.2500
3 „	1312.50	0.1875
2 „	875.00	0.1250
1 „	437.50	0.0625 = 1.0000
15 drams	410.16	0.0586 = 0.9375
14 „	382.81	0.0547 = 0.8750
13 „	355.47	0.0508 = 0.8125

Commercial Fractions.	Troy Grains.	Decimal Fractions.
12 drams, or $\frac{3}{4}$ oz.	328.13	0.0469 = 0.7500
11 "	300.78	0.0430 = 0.6875
10 "	273.44	0.0391 = 0.6250
9 "	246.09	0.0352 = 0.5625
8 " or $\frac{1}{2}$ oz.	218.75	0.0313 = 0.5000
7 "	191.41	0.0273 = 0.4375
6 "	164.06	0.0234 = 0.3750
5 "	136.72	0.0195 = 0.3125
4 " or $\frac{1}{4}$ oz.	109.35	0.0156 = 0.2500
3 "	82.03	0.0117 = 0.1875
2 "	54.69	0.0078 = 0.1250
1 "	27.34	0.0039 = 0.0625
$\frac{1}{2}$ "	13.67	0.0019 = 0.0313

APOTHECARIES' WEIGHT.

A few choice articles of the *Materia Medica*, as lapis bezoar, seed pearl, white amber, balm of Mecca, oil of cinnamon, and some electaries, high in popular estimation, and imported from Italy, as Venice treacle and orvietan, were always weighed by the Troy ounce, and its subdivisions into pennyweights and grains, and still pay duties at the Custom-house by that weight, as may be seen in the *Book of Rates*. But it was not until the directions given in the *London Pharmacopœia*, edition of 1720, that the Troy ounce was divided into the same fractions of drams, scruples, and grains as the Avoirdupois, for the purpose of dispensing all such drugs as were ordered by weight. This alteration must have been, and is still, productive of very great confusion, by obliging the same person to have two sets of weights—one for buying and selling, the other for preparing the officinal preparations and compounds, and for making up prescriptions. It does not clearly appear why this alteration was made in respect only to drugs ordered by weight, by which their proportion in the officinal preparations and compositions was increased 1-10th; as the Avoirdupois ounce, with its old divisions into 2 drams, and drops, 60 of which were presumed equal to the dram, was, and is still retained, in respect to drugs that are dispensed by measure.

TABLE OF APOTHECARIES' WEIGHT.

Usual Fractions.	Troy Grains.	Decimal Fractions.
1 pound	5760	1.0000
11 ounces	5280	0.9167
10 "	4800	0.8333
9 " or $\frac{3}{4}$ lb.	4320	0.7500
8 "	3840	0.6667
7 "	3360	0.5833
6 " or $\frac{1}{2}$ lb.	2880	0.5000
5 "	2400	0.4167
4 "	1920	0.3333
3 " or $\frac{1}{4}$ lb.	1440	0.2500
2 "	960	0.1667
1 "	480	0.0833 = 1.0000
7 drams	20	0.0729 = 0.7850

Usual Fractions.		Troy Grains.	Decimal Fractions.
6	'' . . .	360	0.0625 = 0.7500
5	'' . . .	300	0.0521 = 0.6250
4	'' or $\frac{1}{2}$ ounce	240	0.0417 = 0.5000
3	'' . . .	180	0.0315 = 0.3750
2	'' . . .	120	0.0208 = 0.2500
1	'' . . .	60	0.0104 = 0.1250
2	scruples	40	0.0070 = 0.0833
$\frac{1}{2}$	dram	30	0.0052 = 0.0625
1	scruple	20	0.0035 = 0.0416
$\frac{1}{2}$	''	10	0.0017 = 0.0212
		5	0.0008 = 0.0106
		3	0.0005 = 0.0062
		2	0.0003 = 0.0041
		1	0.0002 = 0.0021

As apothecaries or chemists seldom keep Troy weight beyond 4 or 8 ounces, the relation between the Apothecary or Troy pounds and ounces and the common weight, is often required in preparing the official preparations, and is here given; the quarter ounce being used instead of the Avoirdupois dram, as the latter weight is seldom or never kept by chemists or dispensers.

Troy or Apothecary Pounds.					Troy or Apothecary Pounds.				
lb.	oz.	qr.	grains.	lb.	oz.	qr.	grains.		
100 = 82	4	2	31.250	5 = 4	1	3	34.375		
50 = 41	2	1	15.625	3 = 2	7	1	108.125		
30 = 24	10	3	96.875	2 = 1	10	1	35.625		
20 = 16	7	1	28.125	1 =	13	0	72.500		
10 = 8	3	2	68.749						

Apothecary Weight.				Apothecary Weight.			
oz.	qr.	grains.	oz.	qr.	grains.		
ix	= 9	3	54.375	ʒj	= 1	0	42.500
ʒvj , or lbs	= 6	2	36.250	ʒiv , or ʒss	=	2	21.250
ʒiij	= 3	1	18.125	ʒij	=	1	10.625
ʒij	= 2	0	85.000				

Although the quarter ounce is only 109 grains 375, it will be convenient, in adding two or more of these reductions together, to take the even 110 grains as its value.

The Scotch pound trone is equal to 9600 grains Scotch Troy weight, or 527 gr. English 925: the Scotch Dutch Troy pound is equal to 7680 Scotch grains, or 7620 gr. Engl. 8: both pounds are divided into 16 ounces, the ounce Dutch equal to 476 gr. Engl. 3.

Besides the regular weights, articles are sometimes quoted by the weight of seeds or kernels, as the weight of a nutmeg, or of so many black pepper-corns. In India they use the paddy weight, or that of the grains of rough rice, each of which is equal to about 2-5ths of a grain; the gulivindum weight, or that of a jumble bead, equal to about 1 grain 5-16ths; the retti weight, equal to about 2 grains 3-16ths. Gold coins are sometimes used, as the gold fanam weight, equal to 8 grains; the star pagoda weight, equal to about 84 grains.

FRENCH WEIGHTS.

Before the Revolution there was only one pile of weights in common use: in endeavouring to introduce one upon philosophical principles, there are now no less than four.

The old French Poids de Marc, established by Charlemagne.

French Weight.	Troy Grains.	n.	Avoirdupois.		
			oz.	dr.	grains.
1 livre, poids de marc . . .	= 7561.000	= 1	1	4	13.125
1 livre, poids de médecine . . .	= 5670.750	=	12	15	10.594
1 marc, or 8 ounces . . .	= 3780.500	=	8	10	7.062
4 ounces	= 1890.250	=	4	5	3.522
2 ounces	= 945.125	=	2	2	15.438
1 ounce	= 472.562	=	1	1	7.717
6 gros or dragmes	= 344.421	=		12	16.296
$\frac{1}{4}$ ounce, or 4 gros	= 236.281	=		8	17.531
2 gros	= 118.140	=		4	8.765
1 "	= 59.070	=		2	4.383
$\frac{1}{2}$ " or 36 grains	= 29.535	=		1	2.192
$\frac{1}{4}$ " or 18 grains	= 14.767	=			
12 grains	= 9.843	=			
6 "	= 4.922	=			
3 "	= 2.461	=			
2 "	= 1.640	=			
1 grain	= 0.820	=			

The Revolutionists, misled by the apparent facility of a decimal scale, introduced the metrical system in 1795.

Metrical Weights.	Old French Weight.					Avoirdupois.			
	lb.	oz.	gros.	gr.		lb.	oz.	dr.	grains.
1 myriogramme	20	6	6	63.500	. . .	22	1	0	2.450
1 kilogramme, or kilo	2	0	5	35.150	. . .	2	3	4	22.125
1 hectogramme		3	2	10.710	. . .	3	8		2.152
1 decagramme			2	44.270	. . .		5		17.721
1 gramme				18.320	. . .				15.444
1 decigramme				1.880	. . .				1.544
1 centigramme				0.180	. . .				0.154
1 milligramme				0.018	. . .				0.015

A metrical quintal is 10 myriogrammes.

A millier is 1000 kilos.

The academicians complain much that the great government departments of the navy and artillery have never adopted this weight, not considering the great expense that it would occasion to recast all the artillery and balls.

The faculty of medicine at Paris, in translating their Codex Medicamentorum, or Pharmacopœia, into this new system of weights, did not esteem it necessary to use the exact reduction, but adopted a system of round numbers, and in some parts quoted both the old and

the new weights, that the preparers might use either: thus a third system of weights was established.

Old French Weight.	Exact Metrical Weight. Grammes.	Round Numbers of the Codex. Grammes.
2 lb.	970.02	1000.
1 lb.	489.51	500.
$\frac{1}{2}$ lb.	244.75	250.
4 ounces	122.376	128.
2 —	61.188	64.
1 ounce	30.594	32.
$\frac{1}{2}$ —	15.297	16.
2 gros	7.6485	8.
1 —	3.82	4.
36 grains	1.91	2.
20 —	1.062	1.
10 —	0.531	0.5
2 —	0.1062	0.1
1 grain	0.0531	0.05
$\frac{1}{2}$ —	0.0265	0.0

It is not a little singular, that the medical faculty of Paris should, like that of London, prefer creating a new pile of weights, rather than employ the same as are used by all other persons.

In 1812, the metrical system was abandoned; but instead of reverting to the old pound of Charlemagne, a new pound was decreed; and thus four systems of weights are in common use, including that of the Codex.

New French Weight.	Metrical Weight. Grammes.	Avoirdupois.			
		lb.	oz.	dr.	grains.
1 lb =	500. =	1	1	10	11.07
$\frac{1}{2}$ lb. =	250. =		8	13	5.03
$\frac{1}{4}$ lb., or 4 oz. =	125. =		4	6	16.18
2 oz. =	62.5 =		2	3	8.09
1 oz. =	31.25 =		1	1	17.71
$\frac{1}{2}$ oz., or 4 gros =	15.625 =			8	22.52
2 gros =	7.812 =			4	11.26
1 gros =	3.906 =			2	5.63
$\frac{1}{2}$ gros =	1.9021 =			1	2.81
1 grain =	0.0542 =				0.90

The franc piece of silver, with 1-10th of copper, weighs 5 grammes.

The sous of copper also weighs 5 grammes.

The confusion thus introduced by continual alterations may be easily conceived. The same confusion exists even in their linear measures, so that persons are obliged to carry a triangular rule, containing on one side the old royal foot equal to 12 inches .792 English, with its inches, lines, and points; on a second, the decimetres centimetres of the metrical system; and on the third, the new foot of 1812, being the third part of the metre, and equal to 13 inches .123 English.

ENGLISH MEASURES.

In the old editions of the London Pharmacopœia, the liquids were compounded by Avoirdupois weight; and the following terms were used for expressing a determinate number of ounces.

The Cyathus, or Cup	.	.	for	1½ oz.
Hemina, or Cotyle	.	:	—	9 —
Libra, or pint	.	:	—	12 —
Sextarius, or 1-6th of a Congius	—			18 —
Congius, or Gallon	.	.	—	108 —

In 1720, when the Pharmacopœia was improved by Sir Hans Sloane and Dr. Quincy, the liquids were ordered by measure, and the gallon adopted by the London College was that just enacted for wine and spirituous liquors, containing 231 cubic inches, divided into 8 pints; they divided the pint which holds 16 Avoirdupois ounces, 10 drachms, 17 grains of water, into 16 ounces, and these into 8 drachms. Smaller quantities were ordered by drops, supposed to be equal to grains; but now the drachm measure is divided into 60 minims, and graduated tubes used to measure them, so that the old divisions of the Avoirdupois ounce were, and are still, retained in respect to liquids.

Aëriform fluids are measured by cubic inches.

The relation between wine measure, with the College divisions, and cubic inches, is thus expressed.

Wine and Medical Measure.	Cubic 1000th inches. parts.	Wine and Medical Measure.	Cubic 1000th inches. parts.
10 gallons	2310.000	2 drachms	0.451
5 —	1155.000	1 —	0.225
3 —	693.000	½ drachm, or 30 minims	0.112
2 —	462.000	20 minims	0.074
1 —	231.000	10 —	0.037
½ gallon, or 4 pints	115.500	5 —	0.018
¼ pints	57.750	3 —	0.011
1 —	28.875	2 —	0.007
¾ pint, or 12 oz. medical measure	21.645	1 —	0.003
½ pint, or 8 oz.	14.437	Scotch gill	6.462
¼ pint, or 4 oz.	7.218	— mutchken	25.85
2 oz.	3.609	— choppen	51.7
1 oz.	1.804	pint	103.4
6 drachms	1.353	— quart	206.8
4 —	0.902	— gallon	827.28

The Scotch pint is equal to 41 oz. trone of Tay water, or 55 oz. Troy of Leith water: specific gravity of Tay water 100, of Leith water 103.

Ale and beer measure is seldom mentioned by medical or chemical writers: the gallon contains 282 cubic inches; 32 gallons are a London barrel of ale, 34 a country barrel of either ale or beer, and 36 a London barrel of beer. Nor is dry measure often used; the Winchester bushel, of 8 gallons, measures 2150 cubic inches .4, or 1 cubic foot .822, and the quarter 8 bushels.

The imperial gallon, lately added to the others in use, is established by the weight of distilled water it will hold at 62 deg. Fahr., the barometer standing at 30 inches.

The gallon is to hold 10 Avoird. pounds of water, and must consequently measure 277 cubic inches .274.

The pint is to hold 20 Avoird. ounces, and should of course measure 34 cubic inches .659.

The Avoird. ounce measure of water is therefore 1 cubic inch .73298.

The Troy ounce of water measures 1 cubic inch .9013214.

The weight of a cubic inch of water is 252 grains .456 ; and that of a cubic foot is 62 Avoirdupois pounds .3206.

A cubic foot of air, or 1728 cubic inches, weighs 528 Troy grains .367, or 1 Avoird. oz., 3 dr., 8 grains .23.

Besides these measures, other irregular measures of uncertain content, are used :—

A table spoonful, *cochlearium magnum*, of syrop ʒss.

of distilled waters ʒiijss to ʒss

of spirits and tinctures ʒij to ʒiij.

A desert spoonful, *cochlearium mediocre*, of water ʒij.

A tea or coffee spoonful, *cochlearium parvum*, of syrop ʒj to ʒij.

of distilled waters ʒjss to ʒij

of spirit and tinctures ʒj to ʒjss

of a light powder, as magnesia, ʒss to ʒj

of a heavy powder, as sulphur, ʒjss to ʒij

of a metallic oxide ʒj to ʒiij.

A thimbleful, *clypeola metallica pro digitis*, is usually the same as tea spoonful.

A tea-cup, *vasculum pro thea*, ʒiij to ʒiv.

A wine-glass, *scyphus pro vino*, cyathus, ʒjss.

FRENCH MEASURES.

In the Codex the liquids are used by weight, and the chemists do the same; so that it is only in common affairs that measures are employed.

Old French Measure.	English Cubic Inches.	Metrical Measure of 1795.	English Cubic Feet.
LIQUID MEASURE.			
Poisson . . .	3.631	Myriolitre	353.1712
Pinte	58.110	Kilolitre, or 1 metre cube	} 35.3171
		Stere of firewood	
DRY MEASURE.			
Litron	49.617	Hectolitre	} 3.5377
Boisseau	793.856	Decistere of charcoal	
	Cubic Feet.		
Minot	1.378	Decalitre	610.2800
Mine	2.756	Litre, or 1 decimetre cube	61.0280
Septier	5.512	Decilitre	6.1028
Muid	66.146	Centilitre	0.6102
Mine, char.	7.350	Millilitre, or 1 centimetre cube	0.0610
Voie, fire w.	65.48		

In the new French measures, decreed in 1812, the pinte is to be the same as the metrical litre, and the boisseau is to be 12 litres and a half, equal to 763 English cubic inches .35.

Une verre a vin, $\bar{3}$ viii
 Une verre d'un seul traite, $\bar{3}$ v
 Une verre au liqueur, $\bar{3}$ vj
 Une cuiller a bouche, $\bar{3}$ v
 Une cuiller a café, 5-4ths of a dram
 Un seau, 48lb., of 16 ounces.
 Un bassin, 4lb.

SPECIFIC GRAVITY.

This is usually quoted in England by a reference to water as unity; but the great convenience of Baume's hydrometer, and the ease with which it may be constructed and graduated, have brought it into universal use on the continent.

There are two of these hydrometers usually employed; one for liquids lighter than water, the other for those which are heavier. In both of them the same fixed points are used, namely, the floating point of the instrument in distilled water, or in a brine or solution of one ounce of dry common salt in nine ounces of water.

The correspondence between these hydrometers and the common expression of specific gravity, as given by Drs. Brugmans, Driessen, Vrolick, and Deiman, in the Pharmacopœia Batava, is here exhibited. The temperature of the liquor being between 56 and 60 degrees of Fahrenheit; for as the hydrometers are at best but a mere approximation to the truth, it is needless to be more particular.

In Baume's hydrometer for liquids lighter than water, the instrument is poised, so that the 0 of the scale is at the bottom of the stem, when it is floating in the saline solution, and the depth to which it sinks in distilled water shows the 10th degree; the space between these fixed points being equally divided. His graduation was continued upwards to the 50th degree, but should be now continued further.

HYDROMETER FOR LIGHT FLUIDS, OR PESE-ESPRIT.

Baume.	Spec. Gr.	a. Baume.	Spec. Grav.	mc.	Spec. Grav.
50	.782	36	.847	2	.923
49	.787	35	.852	1	.929
48	.792	34	.858	0	.935
47	.796	33	.863	9	.941
46	.800	32	.868	8	.948
45	.805	31	.873	7	.954
44	.810	30	.878	6	.961
43	.814	29	.884	5	.967
42	.819	28	.889	4	.974
41	.823	27	.895	3	.980
40	.828	26	.900	2	.987
39	.832	25	.906	1	.993
38	.837	24	.911	0	1.000
37	.842	23	.917	0	1.075

In the hydrometer for liquids heavier than water, the position of the fixed points is reversed; for the 0 is at the top of the stem, and denotes the level to which the hydrometer sinks in distilled water: the 10th degree is lower down, and shows the level to which it sinks in the saline solution, and the graduation is continued downwards to the 75th degree.

HYDROMETER FOR HEAVY FLUIDS, OR PESE-ACID.

Baume.	Spec. Grav.	Baume.	Spec. Grav.	Baume.	Spec. Grav.
1	1.007	26	1.221	51	1.549
2	1.014	27	1.231	52	1.566
3	1.022	28	1.242	53	1.583
4	1.029	29	1.252	54	1.601
5	1.036	30	1.261	55	1.618
6	1.044	31	1.275	56	1.637
7	1.052	32	1.286	57	1.656
8	1.060	33	1.298	58	1.676
9	1.067	34	1.309	59	1.695
10	1.075	35	1.321	60	1.714
11	1.083	36	1.334	61	1.736
12	1.091	37	1.346	62	1.758
13	1.100	38	1.359	63	1.779
14	1.108	39	1.372	64	1.801
15	1.116	40	1.384	65	1.823
16	1.125	41	1.398	66	1.847
17	1.134	42	1.412	67	1.872
18	1.143	43	1.426	68	1.897
19	1.152	44	1.440	69	1.921
20	1.161	45	1.454	70	1.946
21	1.171	46	1.470	71	1.974
22	1.180	47	1.585	72	2.002
23	1.190	48	1.501	73	2.031
24	1.199	49	1.516	74	2.059
25	1.210	50	1.532	75	2.087

The only inconvenience of Baume's hydrometers, is, that they require several ounces of liquor to float them, and hence they cannot be used for small quantities of liquids. In this case recourse may most conveniently be had to a statical examination, by first ascertaining how many grains of water is held by a very small, light bottle, with one neck of the ordinary dimensions (or, which is better, two very slender necks, that the air may escape by the one, while the liquid is poured in by the other,) when filled to a mark in the neck, and again how many grains the bottle will hold of the liquid under examination. For then as the weight of the water it holds is to that of the liquid, so is the specific gravity of water to that of the liquid.

The following are the specific gravities and degrees of Baume of some of the most usual liquids.

LIGHT FLUIDS.

	0.700	.	Gay Lussac's pure hydrocyanic acid.
	0.715	.	Purest ether.
	0.742	.	Very pure ether.
48	0.792	.	Ether and alcohol, p. æq.
43	0.815	.	Alcohol. P.L. and P.D.
42	0.835	.	Spiritus rectific. P.L. Alcohol. P.E.
37	0.840	.	Spiritus vinosus rectificatus P.D.
36	0.847	.	Naphtha. Purest alcohol by distillation.
33	0.863	.	Esprit de vin, $\frac{3}{8}$.
32	0.868	.	Spirit of turpentine.
26	0.900	.	Scheele's acid of Prussian blue.
23	0.915	.	Strongest liquid ammonia. Olive oil.
22	0.933	.	Strong eau de vie.
20	0.930	.	Sp. tenuis, P.L. Sp. vin. ten. P.D.
20	0.935	.	Alcohol dilutum P.E.
18	0.948	.	Weak eau de vie.
17	0.958	.	Boiling water.
16	0.960	.	Liquid ammonia.
13	0.980	.	Burgundy wine.
11	0.993	.	Claret wine.
10	1.000	.	Distilled water.
* 0	1.075	.	Standard brine.

HEAVY FLUIDS.

	0	.	1.000	.	Distilled water.
	1	.	1.007	.	Distilled vinegar.
	2	.	1.014	.	French wine vinegar.
below	4	.	1.029	.	Watered milk.
4 to	5	.	—	.	Good milk.
above	5	.	1.036	.	Skimmed milk.
	7	.	1.046	.	Acidum aceticum fortius P.L.
	8	.	1.060	.	Wort for table ale, or malt spirit.
* 10	.	.	1.075	.	Standard brine.
	13	.	1.100	.	{ Wort for strong ale.
		.		.	{ Any liquid floating a new-laid egg.
	20	.	1.160	.	Acidum muriaticum P.L.
	22	.	1.187	.	Single aquafortis.
	30	.	1.261	.	Boiling saturated syrup.
	35	.	1.231	.	Cold saturated syrup. Double aq. fort.
	41	.	1.398	.	Common nitric acid.
	48	.	1.500	.	Acidum nitricum P.L.
	51	.	1.550	.	Solut. of subcarbon. of potass.
	66	.	1.847	.	Rectified oil of vitriol.
	67	.	1.850	.	Acidum sulphuricum P.L.

Table of Specific Gravities indicated in the different British Pharmacopœias.

	Dub. 1827.	Lond.	Edin.
Sulphuric ether	765		
Alcohol	810		
Rectified spirit (<i>alcohol fortius</i>)	840	835	835
Spirit of nitrous ether	850		
Nitrous ether	900		
Proof spirit, (alcohol dilutus)	919	930	935
Solution of ammonia	950	960	
Prussic acid	998		
Oxymuriatic acid, Dub. 1807	1.003		
Distilled vinegar	1.005		
Tincture of muriate of iron (red.) Dub. 1807	1.050		
Acetic acid	1.074		
Solution of oxymuriate of potass, Dub. 1807	1.087		
———— carbonate of ammonia	1.090		
———— potass	1.080	1.050	
———— sulphuret of potass	1.117		
Water of muriate of lime	1.202		
Solution of carbonate of soda saturated	1.224		
Water of muriate of barytes	1.230		
———— carbonate of potass	1.320		
Muriatic acid	1.160	1.160	1.170
———— diluted	1.080		
Nitrous acid	1.490	1.500	1.520
———— diluted	1.280		
Prussic acid	0.998		
Sulphuric acid commercial	1.850	1.850	1.845
———— purified	1.845		
———— diluted	1.084		

THERMOMETERS.

Abridged Table of the correspondence between Celsius' or the Centigrade Scale, or Reaumur's or De Luc's Scale and Fahrenheit's Scale; for every 5 deg. of Celsius' and every 4 deg. of Reaumur's.

Cent.	Reau.	Fahr.	Cent.	Reau.	Fahr.	Cent.	Reau.	Fahr.
100	80	212	50	40	122	0	0	32
95	76	203	45	36	113	— 5	— 4	23
90	72	194	40	32	104	—10	— 8	14
85	68	185	35	28	95	—15	—12	5
80	64	176	30	24	86	—20	—16	— 4
75	60	167	25	20	77	—25	—20	—13
70	56	158	20	16	68	—30	—24	—22
65	52	149	15	12	59	—35	—28	—31
60	48	140	10	8	50	—40	—32	—40
55	44	131	5	4	41			

The degrees of Celsius', or the Centigrade, scale which are not quoted, may be found by adding or subtracting for every degree 1.8 deg. to or from the deg. of Fahrenheit; and those of Reaumur's or De Luc's scale, by adding or subtracting 2.25 deg. to or from Fahrenheit's.

1. To reduce Centigrade degrees to those of Fahrenheit, multiply by 9, and divide by 5, and to the quotient add 32, that is,

$$\frac{C \times 9}{5} + 32 = F.$$

2. To reduce Fahrenheit's degrees to Centigrade,

$$\frac{F. - 32 \times 5}{9} = C.$$

3. To reduce Reaumur's to Fahrenheit's,

$$\frac{R. \times 9}{4} + 32 = F.$$

4. To convert Fahrenheit's to Reaumur's,

$$\frac{F. - 32 \times 4}{9} = R.$$

Temperatures which are to be noted in the practice of Pharmaceutical Chemistry.

Fahr. 221	Temp. of boiling syrup when saturated with sugar.
218 $\frac{3}{4}$	Water cont. $\frac{1}{3}$ of common salt boils.
216 $\frac{1}{2}$	" " $\frac{1}{10}$ of muriatic of lime boils.
212	{ Boiling point of pure water. Calor fervens, P.L.
207 $\frac{1}{2}$	{ Temp. of water (or olive oil, or castor oil) heated by a bath of pure water: 4 deg. $\frac{1}{2}$ being lost.
178	{ Water begins to simmer. Alcohol, 22 deg. Baume, boils in a water bath.
173 $\frac{3}{4}$	" 36 ditto.
172 $\frac{5}{8}$	" 40 ditto.
171 $\frac{1}{2}$	
167	Very pure ether distils in a bath.
122	Highest temp. for drying vegetables.
110 $\frac{3}{4}$	{ Temp. at which tea, coffee, or other hot liquors are usually drank.
100 $\frac{1}{2}$	Greatest heat of a bath that the feet will bear without pain.
100 to 90	Calor lenis, P.L. Temp. for digestions.
77	{ Lowest temp. for drying fruits, herbs, and the like. Highest temp. for fermentation.
65 $\frac{3}{4}$	
63 $\frac{1}{2}$	{ Temp. used in France for taking specific gravities by Baume's hydrometers.

60 to 55	Temp. used in Belgium for that purpose.
55	Temp. used in the P.L. for taking spec. grav.
32	{ Temp. of melting ice, used for taking spec. grav. of ether and other very volatile liquids.

Cases of Mutual Decomposition.

I. FROM SIMPLE AFFINITY

Sulphate of potass	.	.	with	Muriate of baryta.
————— soda	.	.	—	Nitrate of potass.
————— ammonia	.	.	—	Muriate of potass.
————— magnesia	.	.	—	Carbonate of potass.
Supersulphate of alumina	.	.	—	Muriate of lime.
Nitrate of potass	.	.	—	————— baryta.
————— ammonia	.	.	—	Phosphate of soda.
Muriate of baryta	.	.	—	All the sulphates and nitrates.
————— soda	.	.	—	Carbonate of potass.
————— lime	.	.	—	Subborate of soda.
————— ammonia	.	.	—	Carbonate of potass.
Phosphate of soda	.	.	—	Muriate of ammonia.
Subborate of soda	.	.	—	Carbonate of potass.
Nitrate of silver	.	.	—	Muriate of soda.
Acetate of lead	.	.	—	Citrate of potass.
Sulphate of mercury	.	.	—	Muriate of soda.
Soap of potass	.	.	—	————— soda.
————— soda	.	.	—	Sulphate of lime.

II. FROM COMPOUND AFFINITY.

Sulphate of baryta	.	.	with	Carbonate of potass.
————— baryta	.	.	—	————— soda.
————— potass	.	.	—	Muriate of lime.
————— soda	.	.	—	Ditto.
Muriate of baryta	.	.	—	Phosphate of soda.
Ditto	.	.	—	Subborate of soda.
Ditto	.	.	—	Carbonate of potass.
Ditto	.	.	—	————— soda.
Ditto	.	.	—	————— ammonia.
Muriate of lime	.	.	—	————— ammonia.
Phosphate of soda	.	.	—	————— lime.
Acetate of lead	.	.	—	Sulphate of zinc.
Ditto.	.	.	—	Nitrate of mercury.

Table of Incompatible Salts.*

SALTS	INCOMPATIBLE WITH
1. Fixed alkaline sulphates .	{ Nitrates of lime and magnesia. Muriates of lime and magnesia.

* That is salts which cannot exist together in solution, without mutual decomposition.

2. Sulphate of lime . . .	{ Alkalies. Carbonate of magnesia. Muriate of barytes.
3. Alum.	{ Alkalies. Muriate of barytes. Nitrate, muriate, carbonate of lime. Carbonate of magnesia.
4. Sulphate of magnesia . . .	{ Alkalies. Muriate of barytes. Nitrate and muriate of lime.
5. Sulphate of iron	{ Alkalies. Muriate of barytes. Earthy carbonates.
6. Muriate of barytes	{ Sulphates. Alkaline carbonates. Earthy carbonates.
7. Muriate of lime	{ Sulphates, except of lime. Alkaline carbonates. Carbonate of magnesia
8. Muriate of magnesia	{ Alkaline carbonates. —— sulphates.
9. Nitrate of lime.	{ Alkaline carbonates. Carbonates of magnesia and alumina. Sulphates, except of lime.

CONTRACTIONS.

COMMONLY USED IN PRESCRIPTIONS, ETC.

A. Aa. Ana, of each ingredient.—*Abdom.* Abdomen, the belly; abdominis, of the belly; abdomini, to the belly.—*Abs. febr.* Absente febre, in the absence of the fever.—*Ad. 2 vic.* Ad duas vices, at twice taking.—*Ad. gr. acid.* Ad gratam aciditatem, to an agreeable sourness.—*Ad. libit.* Ad libitum, at pleasure.—*Add.* Adde, or addantur, add; addendus, to be added; addendo, by adding.—*Admov.* Admoveatur, or admoveantur, apply.—*Adst. febr.* Adstante febre, when the fever is on.—*Aggred. febre.* Aggrediente febre, while the fever is coming on.—*Altern. horis.* Alternis horis, every other hour.—*Alvo adst.* Alvo adstricta, when the belly is bound.—*Aq. bull.* Aqua bulliens, boiling water.—*Aq. ferv.* Aqua fervens, boiling water.

Bis ind. Bis in dies, twice a day.—*B. B. Bbds.* Barbadosensis, Barbadoes.—*B. M.* Balneum maris, a water bath.—*Bull.* Bulliat, it should boil; bulliant, they should boil.—*B. V.* Balneum vaporis, a steam heat.

Cærul. Cæruleus, blue.—*Cap.* Capiat, take.—*C. m.* Cras mane, to-morrow morning.—*Coch. ampl.* Cochleare amplum, a large spoon.—*Coch. infant.* Cochleare infantis, a child's spoon.—*Coch. magn.* Cochleare magnum, a large spoon.—*Coch. mod.* Cochleare modicum, a dessert spoon.—*Coch. parv.* Cochleare parvum, a small spoon.—

Col. Colatus, strained.—*Colat.* Coletur, it should be strained; colaturæ, of or to the strained liquor.—*Colent.* Colentur, they should be strained.—*Comp.* Compositus, compounded.—*Cont. rem.* Continu-entur remedia, the medicines should be continued.—*Contr.* Contritus, ground to a fine powder.—*Coq.* Coque, boil; coquantur, they should be boiled.—*C. P.* Codex of Paris.—*Crast.* Crastinus, to-morrow.—*Cuj.* Cujus, of which.—*Cujuslibet.* Cujuslibet, of any.—*Cyath. theæ.* Cyatho theæ, in a cup of tea.

Deur. pil. Deurentur pilulæ, the pills should be gilt.—*Deb. spiss.* Debita spissitudo, a proper consistence.—*Decub.* Decubitus, of lying down.—*De d. in d.* De die in diem, from day to day.—*Dej. alvi.* Dejectiones alvi, stools.—*Det.* Detur, it should be given.—*Dieb. alt.* Diebus alternis, every other day.—*Dieb. tert.* Diebus tertiis, every third day.—*Dim.* Dimidius, one-half.—*Dir. prop.* Directione propria, with a proper direction.—*Donec alv. bis dej.* Donec alvus bis dejiciat, until two stools have been obtained.—*Donec alv. sol. fuer.* Donec alvus soluta fuerit, until a stool has been obtained.

Ejusd. Ejusdem, of the same.—*Enem.* Enema (en-e-ma), a clyster; enemata, clysters.—*Ext. sup. alut.* Extende super alutam, spread upon leather.

F. pil. xij. Fac pilulas duodecim, make 12 pills.—*Feb. dur.* Febre durante, during the fever.—*Fem. intern.* Femoribus internis, to the inner part of the thighs.—*F. venæs.* Fiat venæsectio, bleed.—*Fist. arm.* Fistula armata, a clyster pipe and bladder fitted for use.—*Fl.* Fluidus, liquid; also by measure.

Gel. quav. Gelatinâ quâvis, in any kind of jelly.—*G. G. G.* Gummi guttæ Gambiæ, gambooge.—*Gr.* Granum, a grain; grana, grains.—*Gtt.* Gutta, a drop; guttæ, drops.—*Gutt. quibusd.* Guttis quibusdam, with a few drops.

Har. pil. sum. iij. Harum pilularum sumantur tres, three of these pills should be taken.—*Hor. decub.* Hora decubitus, at going to bed.—*Hor. som.* Hora somni, just before going to sleep; or on retiring to rest.—*Hor. un. spatio.* Horæ unius spatio, at the expiration of an hour.—*Hor. interm.* Horis intermediis, at the intermediate hours between what has been ordered at stated times.

Ind. Indies, from day to day, or daily.—*In pulm.* In pulmento, in gruel.—*Inj. enem.* Injiciatur enema, a clyster should be given.

Lat. dol. Lateri dolenti, to the side that is affected.—*Lb.* Libra, a pound; or libra, weight, or a wine pint; when preceded by Arabic figures, Avoirdupois weight is generally meant; but when succeeded by Roman numerals, Troy weight, or pint measures.

M. Misce, mix; mensura, by measure; manipulus, a handful.—*Mane pr.* Mane primo, very early in the morning.—*Min.* Minimum, the 60th part of a drachm measure.—*Mitt.* Mitte, send; mittatur, or mittantur, there should be sent.—*Mitt. sang. ad. ℥xij saltem.* Mittatur sanguis ad uncias duodecim saltem, blood should be taken away to 12 ounces at least.—*Mod. præsc.* Modo præscripto, in the manner directed.—*Mor. sol.* More solito, in the usual manner.

Ne. tr. s. num. Ne tradas sine nummo, you should not deliver it without the money : as a caution to the shopman, when the presence of the customer prevents the master giving a verbal direction.—*N. M.* *Nux. moschata*, a nutmeg.

O. Octarius, a wine pint, being 1-8th of a gallon.—*Ol. lini s. i.* Oleum lini sine igne, cold drawn linseed oil.—*Omn. hor.* Omni hora, every hour.—*Omn. bid.* Omni biduo, every two days.—*Omn. bih.* Omni bihorio, every two hours.—*Omn. man.* Omni mane, every morning.—*Omn. noct.* Omni nocte, every night.—*Omn. quadr. hor.* Omni quadrante horæ, every quarter of an hour.—*O. O. O.* Oleum olivæ optimum, best olive oil.—*Oz.* The ounce Avoirdupois, or common weight, as distinguished from that prescribed by physicians in their orders.

P. Pondere, by weight.—*P. Bat.* Pharmacopœia Batava.—*P. Belg.* Pharmacopœia Belgica.—*P. D.* Pharmacopœia Dublinensis.—*P. E.* Pharmacopœia Edinensis.—*P. L.* Pharmacopœia Londinensis.—*P. L. V.* Pharmacopœia Londinensis, before 1745.—*P. U. S.* Pharmacopœia of the United States.—*Part. vic.* Partitis vicibus, to be given in divided doses, instead of all at once.—*Per. op. emet.* Peracta operatione emetici, when the operation of the emetic is finished.—*Post sing. sed. liq.* Post singulas sedes liquidas, after every loose stool.—*P. r. n.* Pro re nata, according as circumstances occur.—*P. rat. æt.* Pro ratione ætatis, according to the age of the patient.—*Pug.* Pugillus, a gripe between the finger and thumb.

Q. p. Quantum placet, as much as you please.—*Q. s.* Quantum sufficit, as much as may suffice.—*Quor.* Quorum, of which.

R. Recipe, take ; but for this the old authors, and the French to this day, use this sign ♃, being the old heathen invocation to Jupiter, seeking his blessing upon the formula, equivalent to the usual invocation of the poets and of Mahomedan authors, or the Laus Deo with which book-keepers' and merchants' clerks formerly began their books of account and invoices, a practice not yet quite extinct.—*Red. in pulv.* Redactus in pulverem, powdered.—*Redig. in pulv.* Redigatur in pulverem, it should be reduced to powder.—*Reg. umbil.* Regio umbilici, the parts near the navel.—*Repet.* Repetatur, it should be continued ; repetantur, they should be continued.

S. A. Secundum artem, according to art.—*Semidr.* Semidrachma, half a drachm.—*Semih.* Semihora, half an hour.—*Sesunc.* Sesuncia, an ounce and a half.—*Sesquih.* Sesquihora, an hour and a half.—*Si n. val.* Si non valeat, if it does not answer.—*Si op. sit.* Si opus sit, if need shall be.—*Si vir. perm.* Si vires permittant, if the strength will allow.—*Sign. n. pr.* Signetur nomine proprio, write upon it the usual name, not the trade name.—*Sing.* Singulorum, singularum, of each.—*S. S. S.* Stratum super stratum, layer upon layer.—*Ss.* Semi, a half.—*St.* Stet, it should stand ; stent, they should stand.—*Sub fin. coct.* Sub finem coctionis, when the boiling is nearly finished.—*Sum. tal.* Sumat talem, the patient should take one like this.—*S. V.* Spiritus vinosus, ardent spirit of any strength.—*S. V. R.* Spiritus vinosus

rectificatus, spirit of wine.—*S. V. T.* Spiritus vinosus tenuis, proof spirit, or half and half spirit of wine and water.

Temp. dext. Tempori dextro, to the right temple.—*T. O.* Tinctura opii, tincture of opium; generally confounded with laudanum, which is properly the wine of opium.—*T. O. C.* Tinctura opii camphorata, paregoric elixir.—*Trit.* Tritus, ground to powder.

Ult. præscr. Ultimo præscriptus, the last ordered.

V. O. S. Vitello ovi solutus, dissolved in the yelk of an egg.—

Vom. urg. Vomitione urgente, when the vomiting begins.

Z. A mark in writing that a word is contracted, as in oz. for ounce.—*Zz.* Zingiber, ginger.

ʒ. Scrupulum, a scruple, equal to 20 grains Troy.—*ʒ.* Drachma, a drachm, equal to 3 scruples; or in liquids the 8th part of an ounce measure.—*ʒ̄.* Uncia, an ounce Troy; or in liquids the 16th part of a wine pint.

In labelling bottles, boxes, drawers, or pots in a shop, the name of the drug should be left predominant; while a single letter is sufficient for denoting the technical terms, as *radix*, *pulvis*, *pilulæ*, *compositus*, *volatilis*, &c.; simple powders also speak for themselves to the eye, and do not require the addition of *pulvis*.

Valerianæ r.	<i>not</i>	Valer. radix.
Ipecacuan. r.		Pulvis ipec.
P. ipecacuan. c.		Pulvis ipec. comp.
T. cantharidis		Tinctura canth.
U. hydrarg. nitr.		Unguent. hydr. n.

It is still more proper, and less liable to error, to denote the powdered simples as the College itself does, by the adjectives, *tritus*, or *contritus*, and not by the substantive *pulvis*, which renders them liable to be confounded with the compound powders: *tritus* being used when the substance is easily powdered, and *contritus* when it requires great labour, or is reduced to a particular fine powder; the *con* being used as an intensive adjection.

And here it may be noted, that for reducing acrid substances as euphorbium, and the like, to powder, the method used by the fire-work makers in powdering charcoal may be advantageously employed. They put the charcoal into a strong leather bag, and having tied the opening very tight, beat it with a mallet: then leaving it for some time to settle, the bag is opened, and the powder run into a drum sieve with as little disturbance as possible.

TABLE OF VEGETABLE SUBSTANCES.

The following Table from Professor Kane's *Elements of Pharmacy* shows the Vegetable Substances of the *British Materia Medica* to be collected in each Month of the Year.

January and February.

July.

No vegetable, with the exception of a few cryptogamic plants, collected in these months.

Flower of the anthemis nobilis, and in July.

March.

Flowers of tussilago farfara.
Leaves of ditto.
Flowers of viola odorata.

Flower of the sambucus niger.
Petals of the papaver rhœas.
————— rosa centifolia.
————— gallica.

April.

Flowers of viola odorata.
Leaves of asarum Europæum.
————— narcissus pseudo-narcissus.
————— laminum.

Seeds of colchicum autumnale.
Tops of artemisia absinthium.
————— rosmarinus officinalis.
Herb of origanum marjorana.
————— melissa officinalis.
————— mentha piperita.
————— viridis.
————— pulegium.
————— lythrum salicaria.

May.

Tops of artemisia absinthium.
————— juniperus communis.
Herb of cochlearia officinalis.
Leaves of conium maculatum.
————— prunus lauro-cerasus.
Petals of the rosa gallica.
————— rosa centifolia.

Leaves of erythrea centaureum.
————— nicotiana tabacum.
————— ranunculus acris.
————— ruta graveolens.
————— rumex acetosa.
————— juniperus sabina.
————— salvia officinalis.
————— scrophularia nodosa.
————— rhus toxicodendron.
Flowers of borago officinalis.
————— arnica montana.
————— lavandula spica.
Bulbs of colchicum autumnale.

June.

Tops of artemisia absinthium.
————— spartium scoparium.
Leaves of althæa officinalis.
————— arnica montana.
————— asarum Europæum.
————— atropa belladonna.
————— cnicus benedictus.
————— digitalis purpurea.
————— euphorbia lathyris.
————— hyoscyamus niger.
————— lactuca virosa.
————— leontodon taraxacum.
————— marrubium vulgare.

August.

Bulbs of colchicum autumnale.
Stems of solanum dulcamara.
Herb of datura stramonium.
Flowers of punica granatum.
Strobiles of the humulus lupulus.
Fruit of the momordica elaterium.
————— morus nigra.
Capsules of the papaver somniferum.
Seeds of the carum carui.
————— coriandrum sativum.
————— anethum graveolens.
————— fœniculum.

September.

October.

Fruit of the *rosa canina*.
 ——— *rhamnus catharticus*.
 ——— *sambucus niger*.
 ——— *punicum granatum*.
 Seeds of ditto.
 ——— *datura stramonium*.
 Roots of *angelica archangelica*.
 ——— *aspidium filix mas*.
 ——— *arnica montana*.
 ——— *althæa officinalis*.
 Seeds of *calamus aromaticus*.
 ——— *cochlearia aromatica*.
 ——— *glycyrrhiza glabra*.
 ——— *helleborus niger*.
 ——— *florentia iris*.
 ——— *leontodon taraxacum*.
 . *orchis mascula*.
 -- *polygonum bistorta*.
 --- *rumex aquatica*.
 --- *tormentilla erecta*.
 --- *valeriana officinalis*.
 --- *veratrum album*.

Berries of *juniperus communis*.
 Bark of *cesculus hippocastanum*.
 ——— *daphne mezereon*.
 ——— *gnidium*.
 Roots of *quercus robur*.
 ——— *ulmus campestris*.
 Fruit of the *vitis vinifera*.
 Seeds of the *pyrus cydonia*.
 ——— *ricinus communis*.
 Roots of the *inula helenium*.
 ——— *arctium lappa*.
 ——— *bryonia alba*.
 ——— *rheum palmatum*.
 ——— *undulatum*.
 ——— *rubia tinctorum*.
 Stamens of the *crocus sativus*.

November and December.

Boletus ignarius.
Cetronia Islandica.
Rouella tinctoria.

CORRECTION.

Page 439. Lockyer's Pills. Omit "The formula for panacea antimonii, additions."

This sentence has been retained through inadvertence from the preceding edition, in which the formula for the panacea antimonii was omitted. That formula is now inserted in the present edition : see page 241.

S U P P L E M E N T,

&c.

I. VEGETABLES.

VEGETABLES form in every country the greatest number of remedies employed by practitioners in medicine: not being so remote, in respect to their chemical composition, from the solids and fluids of the human body, as to refuse to assimilate with them; and yet sufficiently so, as to have, in general, a decidedly marked action upon them.

The number of vegetables which are possessed of medicinal virtues, and which are sold in the shops of druggists and herbalists, or used by private practitioners, being so great, it is absolutely necessary to adopt some mode of arrangement. Of the two methods now in common use, that of Jussieu, as amended by the latest writers, is here followed, as being more conformable to nature than the sexual system of Linnæus. The preference thus given to a natural system is also justifiable on the ground that most of the orders have some common medicinal qualities, which are the more distinctly marked, as the order itself is more distinct from others in its botanical characters.

The plants are designated by their common English names, the officinal Latin names by which they are known throughout Europe, and finally, by those given them by Linnæus and his followers, when they differ from those last mentioned, in order that references may be made with facility to the works of the old botanists, who were particularly studious of the medicinal uses of plants.

The plants included in this synopsis are not only those mentioned in the several successive Pharmacopœias of the College of Physicians, and in the two provincial Pharmacopœias of Dublin and Edinburgh, but also most of the plants which have ever been described as possessing any medicinal virtues or used in the chemical arts.

Roots are best taken up in the beginning of spring, unless

otherwise ordered. They, as well as woods and barks, are the better for being fresh, although many will keep a long time without any perceptible decay. Many kinds of roots may be kept fresh in dry sand in a cellar.

Roots to be dried should be rubbed in water to get rid of the dirt, and also some of the mucous substance that would otherwise render them mouldy. The larger are then to be cut, split, or peeled: but in most aromatic roots, as those of the umbelliferous plants, the odour residing in the bark, they must not be peeled. They are then to be spread on sieves or hurdles, and dried in a heat of about 120 deg. Fahr. either on the top of an oven, in a stove, or a steam-closet, taking care to shake them occasionally to change the surfaces exposed to the air. Thick and juicy roots, as those of rhubarb, briony, piony, water lily, &c., are cut in slices, strung upon a thread, and hung in garlands in a heat of about 90 to 100 deg. Fahr. We may here observe that it is not always the same part of the root which it is desirable to preserve: in some, as *Arctium lappa*, &c., it is the bark which is to be retained, and the medullium to be rejected; this is done by splitting up the root, and cutting out the inert portion; in others, as the *Althæa officinalis*, the bark is to be removed, and the medullium retained.

The drying of *woods* requires little attention; but the silver grain is liable to the attack of insects. Buffon advised trees intended for timber to be barked a year before they were felled, as in that time the silver grain becomes as hard as the heart of the wood. Timber for ship-building is sometimes soaked in a solution of arsenic, to hinder it from affording a lodgment to marine worms. By floating timber for some time in water, it loses part of its extractive and saccharine juices, and becomes harder, so as to be less liable to be attacked by insects or worms: by soaking in alum-water, it is rendered less combustible.

Dried *barks*, for medical purposes, require the outer skin to be peeled off, as it is usually coarse and inefficacious. The ordinary heat of the atmosphere is in general sufficient.

Herbs, for medical purposes, ought to be collected when they begin to flower, and gathered on a dry day, as soon as the dew is off; they should be spread thin, dried as quickly as possible by a gentle heat, and kept in a dry dark place.

Tops, leaves, or whole herbs, should be cleansed from discoloured and rotten leaves, screened from earth or dust, placed on hurdles, covered with blotting-paper, and exposed to the sun or the heat of a stove, in a dry airy place. The quicker they are dried the better, as they have less time to ferment or grow mouldy; hence they should be spread thin, and frequently turned: when dried, they should be shaken in a large-meshed sieve to get rid of the

I. VEGETABLES.

eggs of any insects that would otherwise be ~~hatched among~~ them. Aromatic herbs ought to be dried quickly with ~~a~~ rate heat, that their odour may not be lost. Almost all plants, after they have been dried so as to become brittle, give a little, and become more odorous, as melilot, red roses, oak of Jerusalem, lesser centaury. Some persons have proposed to dry herbs in a water-bath; but this occasions them to be as it were half-boiled in their own water, especially as the evaporation goes on slowly in close vessels. With respect to the collection of the leaves of the biennial narcotic plants, Mr. Houlton has made the very important remark that they do not possess medicinal activity until their second year, and that a great part of the leaves of hyoscyamus collected for sale are of the first year's growth, mucilaginous and inert. The mixture of these in unknown quantities with the active leaves, and their being sometimes even used alone, must render the extract or tincture prepared from them of very variable strength and power.

Flowers should in general be gathered in full bloom, and dried as speedily as possible, the calyces, claws, &c., being previously taken off: when the flowers are very small, the calyx is left, or even the whole flowering spike, as in the greatest portion of the labiate flowers. Compound flowers, with pappous seeds, as coltsfoot, ought to be dried very high before they are entirely opened, otherwise the slight moisture that remains would develop the pappi, and these would form a kind of cottony nap, which would be very hurtful in infusions, by leaving irritating particles in the throat. Flowers of little or no smell may be dried in a heat of 75 to 100 deg. Fahr. The succulent petals of the liliaceous plants, whose odour is very fugacious, cannot well be dried, as their mucilaginous substance rots and grows black. Several sorts of flowering tops, as those of lesser centaury, lily of the valley, wormwood, melilot, water germander, &c., are tied in small parcels, and hung up, or else exposed to the sun, wrapped in paper cornets, that they may not be discoloured.

After some time, blue flowers, as those of violets, bugloss, or borage, grow yellow, and even become entirely discoloured, especially if they are kept in glass vessels that admit the light; if, however, they are dipped for a moment in boiling water, and slightly pressed before they are put into the drying stove, the blue colour is rendered permanent.

Fruits, unless their efficacy depends upon the acerbity of their juice, ought to be gathered when they are ripe, and kept upon a layer of straw, in order to ripen, in a cool, dry, shady place. The fruits ought not to touch one another, lest they should grow rotten for want of free evaporation at the place where they touch.

Many nutritive fruits of warm climates, as figs, dates, jubebs, sebestems, myrobalans, are dried in the sun upon hurdles.

Dried *peels of fruits*, as those of pomegranates, oranges, or lemons. In this case, the outer peel should be separated with an ivory or silver knife from the greatest part of the white fungous substance, and it should not be squeezed or moistened with the juice of the fruit.

Dried *seeds* require, in general, but little attention. The farinaceous and leguminous sorts may be dried in a stove; oily seeds, fit for making emulsions, must not be dried by heat, but only in the free air, and even then they are liable to become rancid. In general, all seeds keep best in their shells or other integuments. Horny seeds, although highly dried, retain their germinative faculty for a long time.

Vegetables and their juices may also be preserved by heating in well-closed vessels. The substances to be preserved are to be put into strong glass bottles, with necks of a proper size, corked with the greatest care, luted with a mixture of lime and soft cheese, spread on rags, and the whole bound down with wires across it. The bottles are then inclosed separately in canvass bags, and put into a copper of water, which is gradually heated till it boils, and thus kept until it is presumed that the substances are, as it were, boiled in their own water: the whole is then left to cool, and the bottles are taken out and carefully examined before they are laid by, lest they should have cracked, or the lute given way.

The preservation of fruit in water is, in some measure, similar to the preceding. The fruit not quite ripe, pulse, or other substance, is put into wide-necked bottles, which are placed in a copper of water nearly up to their mouths, and they are lightly corked; the water is then heated till it is very hot, but does not scald, and this heat is kept up for half an hour; the bottles are then taken out, and immediately filled with boiling water to the very brim, carefully corked, wired, placed on their sides, and turned at first every week, but afterwards seldomer, to prevent any part, in consequence of the bubble of air that forms in them, from getting dry, and thus becoming mouldy. Some attempt to preserve fruits, &c., without water, by heating the water-bath to boiling, and corking the bottles while in the boiling water, but this does not succeed so well, unless the fruit is very green; and the water is at any rate useful to put into pies.

To pickle vegetables in *brine*. A brine is made of bay-salt, or rather London's solid salt, thoroughly saturated, so that some of the salt remains undissolved, and kept floating upon it by a frame, or bung: this requires about 4 pounds of salt to the gallon of water; into this brine the substances to be preserved are plunged,

and kept entirely covered with it. French beans, artichokes, olives, and the different sorts of samphire are thus preserved.

Some sweet-scented flowers, as rose or elder flowers, are preserved by *dry salt*. Two pounds of brown or bay salt are added to each eight gallons of flowers, and the whole beaten to a paste, which is kept in a close vessel. By this means, the chemists and perfumers are not only enabled to distil rose or elder flower-water at any time of the year, but the scent is also much improved.

Many vegetables are pickled in *vinegar*, and kept in the shops. The vegetables are usually soaked in salt and water for some hours, then drained, spices added to counteract the coldness of the vinegar, and boiling vinegar poured upon them; in a few days the vinegar is poured off, boiled a little with the spices, and then poured on again: if the vinegar is good, and the substances are not too moist, it is sufficient to pour it cold upon them, and keep the vessel closely covered. The white vinegar, or pyroligneous acid, much diluted, may be used still more advantageously.

In preserving fruits in *syrup*, it is necessary to consider the manner in which the several degrees of strength in syrup is judged of in boiling. If moist sugar is used, the syrup must be clarified with white of eggs; but if refined sugar is used, it need only be melted over the fire in a quarter, or at most one third its weight of water, and as the water evaporates, the syrup must be taken up with a large slice, and let to fall into the pan again. If, during this manipulation, it forms a broad sheet as it falls, it is said to be boiled to a candy height, and will exhibit when taken from the fire, but still warm, 36 deg. of Baume's hydrometer: if it has not been boiled quite so far, the sheet is formed but imperfectly, and it exhibits a smaller number of degrees; it is then said to be boiled to a weak candy height. In shaking the slice of syrup, when in this state, it runs over in the form of the feathers of a quill, or drops in the manner of pearls, which being received in a glass of water, ought to fall to the bottom in solid and brittle globules. If the boiling is continued a little longer, these effects are produced in a more perfect manner, and the syrup exhibits 37 deg. by the hydrometer; it is then said to be boiled to a full candy height: if it be now stirred until it is cold, it forms a dry powdery mass. As all the water is now evaporated, if the sugar is continued on the fire, it will turn red, and acquire a burnt taste. The powdering of the sugar renders the syrup made from it thick and turbid; it should therefore be put into the water in a single lump.

To preserve fruits, then, the syrup is boiled to a weak candy height, and poured hot upon the fruit so as to cover it; the juice of the fruit of course weakens the syrup, which must, therefore,

the next day be poured off the fruit, and reboiled to the former height, and then poured on the fruit again; and this must be repeated, if the fruit is very juicy, a third or fourth time, until the syrup is no longer weakened by the juice of the fruit, when it is left in it.

To preserve fruits in *sugar*. The fruit, if very succulent, is first soaked for some hours in very hard water, or in weak alum water, to harden it, and then drained. Upon the fruit, either prepared or not, syrup boiled to a candy height, and half cold, is to be poured: after some hours, the syrup, weakened by the juice of the fruit, is poured off, reboiled, and poured on again, and this repeated sometimes a third time. When the syrup is judged to be no longer weakened, the fruit is taken out of it, and drained.

Seeds and fruits may be preserved by being put into *honey*; and on being taken out, washed, and planted, they will vegetate.

Fruits are also preserved in *brandy*, or other *spirits*. Juicy fruits, as plums, apricot, cherries, peaches, ought to be gathered before they are perfectly ripe, and soaked for some hours in very hard water, or in alum water to make them firm. As the moisture of the fruit weakens the spirit, it ought to be strong, and five oz. of sugar should be added to each quart of the spirit.

A few vegetables, as truffles, are preserved in *olive oil*, the jars being closely luted, to prevent the oil from turning rank by the access of air, but this mode is more practised with animals.

Bees' wax has been used to preserve seeds for carriage to other distant countries, without any injury to the future germination; but brown sugar offers a preferable mode, and this agent is only used for animal substances, as caviar.

The *doses* of such vegetables as exert a very powerful action on the human frame are mentioned under each article; or, if not properly known, a caution is given, lest any unlucky accident should occur. The generality, however, of plants, having no very marked action, are taken in powder, in doses of a drachm night and morning; or a sufficient quantity to give a strong taste or colour to water, is infused or boiled in it, usually an ounce to a pint; and the doses are so regulated, that the soluble parts of about a drachm of the vegetable are contained in each; and these doses are exhibited three or four times in a day.

The plants that are marked with an asterisk grow wild, or are largely cultivated, in the British islands; and are described in my Natural Arrangement of British Plants; and the chemical history of those contained in the London Pharmacopœia is detailed in my Elements of Pharmacy.

ORDER 1. ALGÆ.

*SEA LENTILS, *Vitis marina*, *Lenticula marina*, *Fucus natans*. Used by the Portuguese and Dutch in dysuria.

*BLADDER WRACK, *Quercus marina*, *Fucus vesiculosus*. Burnt to a charcoal is the vegetable Æthiops of the shops; its ashes yield a considerable quantity of alkali; other species of fuci furnish this salt, but generally in a less quantity, therefore this is most usually burned for that purpose. This substance, when burnt, is supposed to possess some deobstruent powers, and as such, has been given in bronchocele and scrofulous affections. Its efficacy depends on the iodine which it contains. The principal use to which the plant has been applied, however, is in the manufacture of kelp.

*FUCUS NODOSUS;—*F. SERRATUS. Used for the same purposes as bladder wrack.

*PEPPER DULSE, *Fucus pinnatifidus*. Biting, aromatic taste, eaten as a salad.

*DABERLOCKS, *Fucus esculentus*, *F. teres*, *F. fimbriatus*. Eaten in Scotland.

*GULF WEED, *Laver*, *Fucus natans*, *F. bacciferus*. Eaten raw as a salad: also pickled, as samphire; aperient, diuretic, and anti-scorbutic.

*SWEET FUCUS, *Fucus saccharinus*. Washed in warm water and hung up, a saccharine substance exudes from it: some eat it without washing.

*DULSE, *Dills*, *Dulesh*, *Fucus palmatus*. Eaten either raw, boiled, or dried, but is very tough.

*RED DULSE, *Fucus edulis*. Eaten while raw, also after being pinced with hot irons, in which case it tastes like roasted oysters. A red lake is prepared from it.

*SEA GIRDLE-AND-HANGERS, *Fucus digitatus*. Contain a nutritive jelly, more or less saccharine, eaten both by man and beast; also burned for kelp.

*SHIELD LAVER, *Ulva umbilicalis*. Esculent, but requires baking for some hours to render it eatable.

*ICELAND SEA-GRASS, *Ulva latissima*;—*OYSTER GREEN, *Lichen marinus*. *U. Lactuca*. Are also eaten.

MOUSSE DE CORSE, *Helminthocorton*, *Conferva dichotoma*, *Fucus Helminthocorton*, Corsican worm-moss. This usually contains also several kinds of geniculated thread-like algæ: vermifuge, taken in the form of a jelly or thick mucilage. Imported from France.

*CROW SILK, *Hairy river-weed*, *Conferva rivularis*. This

green fibrous plant, found in stagnant water, smells marshy, is used as a vermifuge by some country people; it is as difficult to burn as *Fontinalis antipyretica*; adheres firmly to glass or paper, and was used by the ancients to bind up broken limbs, keeping it constantly moist.

CORALLINE, *Sea moss*, *Corallina*, *C. officinalis*. Vermifuge, ʒss to ʒj, in coarse powder.

***STAR SHOOT**, *Nostoch*, *N. commune*, *Tremella Nostoc*. A greenish jelly, eatable; infused in brandy, it causes a disgust to that liquor in those who drink of it.

SPONGE, *Spongia*, *S. officinalis*. Externally to stop hæmorrhages, or dipped in melted wax and squeezed, as a tent to dilate cavities, by its expansion.

2. FUNGI.

Frequently poisonous: the best remedy in this case, after immediate vomiting, by tickling the fauces, and the exhibition of clysters, is ether ʒj. in a glass of water, with tincture of capsicum. The Russians, however, eat almost every species that are of any size, only stewing them thoroughly, and drinking a glass of brandy after them; and the ancients stewed suspected mushrooms with some twigs of the pear-tree, as an antidote to their bad effects.

***MORELL**, *Morchella esculenta*;—*M. gigas*. Wholesome and agreeable, as are all the other morchellæ. Principally imported dry from Italy; used as a sauce.

***TRUFFLES**, *Trubs*, *Tuber cibarium*, *T. gulosorum*, *Tubera terræ*, *Lycoperdon tuber*;—**T. moschatum*;—**T. album*;—*Bianchetti*, *T. albidum*;—*Rossetti*, *T. rufum*;—**BLACK TRUFFLE WITH WHITE FLESH**;—**PIEDMONT TRUFFLE**, *T. griseum*, which has a slight odour of garlic. Are all used as delicate sauces to soups, and the like. The truffles grow under ground, and are turned up, or pointed out by hogs or dogs trained for that purpose. Imported from France and Italy, either dry, or preserved in olive oil.

***PUFF BALLS**, *Bull fists*, *Mollipuffs*, *Crepitus lupi*, *Lycoperdon Bovista*. Narcotic; its smoke stupifies bees, but does not kill them; its very subtle seminal dust is used as a styptic.

***DEER BALLS**, *Boletus*, *Lycoperdon cervinum*. Aphrodisiac, and increases the milk.

***STINK HORNS**, *Fungus phalloides*, *Phallus impudicus*. Intolerably foetid at a distance, so that it is oftener smelt than seen, being supposed to be some carrion, and therefore avoided; when near, it has only the pungency of volatile salts. Its odour soon fills a whole house. Applied externally to painful limbs.

***HELVELLA ESCULENTA**;—**H. Mitra*. Are eaten abroad.

GOATS-BEARD MUSHROOM**, *Clavaria coralloides*;—GREY GOATS-BEARD**, *C. cinerea*. Are eaten, and very safely, as from their coralline appearance they have not the least resemblance to any poisonous kinds; but their flesh is rather cottony, and their flavour very slight.

HEDGE-HOG MUSHROOM**, *Hydnum erinaceum*;—**H. coralloides*:—CHEVRETTE**, *H. repandum*;—***BROUQUICHONS**, *H. Auriscalpium*. Are all eaten.

***CHANTERELLE**, *Merulius Cantharellus*. Is not a delicate species, but safe, as being unlike any poisonous kind.

***BOLETUS FRE**, *B. Chrysenteron*, is eaten, at least while young.

CEPATELLI**, *Boletus edulis*;—BLACK CHAMPIGNON**, *B. cereus*;—***LECCINO**, *B. scaber*;—**B. aurantiacus*. Are eaten on the continent, particularly by the Tuscans.

***BULL'S LIVER**, *Bull's tongue*, *Hypodryis*, *Boletus hepaticus*, *Fistularia hepatica*. Almost the only parasitic mushroom that is usually eaten.

BOLETUS SUAVEOLENS, *Dædalea suaveolens*. Used in phthisis, ʒj in powder four times a day, made up into an electuary.

AGARIC OF THE LARCH, *Male agaric*, *Agaricus*, *Boletus laricis*. Grows in Tartary on the larch: the interior part is friable, light, and used as a drastic purge; dose ʒj to ʒij, in powder, with some ginger; or an infusion of double that weight. Imported from Turkey.

***TOUCHWOOD**, *Spunk*, *German tinder*, *Amadou*, *Boletus ignarius*;—*B. fomentarius*;—*B. unguilatus*. These, when softened by beating, are used for stopping blood; soaked in a ley of saltpetre, and dried, they are used as tinder: imported from Germany.

***BOLETUS SULPHUREUS**. On drying, evolves needle-like crystals of oxalic acid, nearly pure, and is consequently poisonous.

BLEWITS, *Agaricus violaceus*. Used for making ketchup.

***COMMON MUSHROOM**, *Agaricus edulis*. Under which name several species of agarici pratelli are supposed to be confounded; is that mostly eaten in England; all are wholesome.

CHAMPIGNON, *Scotch bonnets*, *Agaricus pratensis*. Dried and used to flavour sauces.

MUGNAIO**, *Agaricus eburneus*;—MOUSSERON DE DIEPPE**, *A. tortilis*, and many others, are sold for food in the markets of Tuscany.

PIVOULADE DE SAULE, *Agaricus translucens*. Eaten by the poor in France along with other agarici with the footstalk on the side, or totally wanting; but most are suspicious.

AGARICUS DELICIOSUS. Has yellow milk, and is of exquisite

flavour, but must not be confounded with *A. necator*, or *A. theiogalus*, both which have also yellow milk, and are very poisonous.

A. SUBDULCIS*;—A. piperatus*; (an ingredient in the opiatum antituberculosum, which loses its acrid taste when dressed) are eaten.

**A. PROCERUS*. Is the best and most usually eaten of those whose footstalk is furnished with a moveable collar, and whose gills do not melt into a black liquid; none are known to be poisonous.

**A. MUSCARIUS*. Infused in milk, kills flies; juice rubbed on bedsteads expels bugs: dried and powdered, gr. x to xxx with vinegar, cathartic, sudorific: applied externally to ulcers and gangrenes.

**A. BULBOSUS*, is a very active poison.

**JEWS EAR*, *Auricula Judæ*, *Fungus sambuci*, *Peziza Auricula*. Grows on the elder; used, soaked in milk or vinegar, as a gargle in the quinsy, &c.

**OAK LEATHER*; *Xylostroma giganteum*. Found in the cracks of oaks; used in Ireland as a dressing for ulcers, and in Virginia to spread plasters upon.

3. LICHENES.

The softer kinds are slightly bitter, and used in affections of the lungs: those resembling a chalky crust are used in dyeing.

**TREE LIVER-WORT*, *Lichen arboreus nullus*, *L. olivaceus*. Roborant, used in hæmorrhages and old coughs.

**OAK LUNGS*, *Tree lung-wort*, *Hazel crottles*, *Pulmonaria arborea*, *Muscus pulmonarius*, *Lichen arborum*, *L. pulmonarius*. Slightly bitter, opening, detersive, useful in diseases of the lungs; dyes wool of a durable orange colour; yields a gum similar to gum Arabic.

**ICELAND MOSS*, *Lichen*, *Muscus Islandicus*, *M. catharticus*, *L. Islandicus*, *Cladonia Islandica*, *Cetraria Islandica*, *P. Dub.* Slightly bitter, used as food in Iceland, either made into bread or boiled in water, the first water being rejected. The bitterness of this substance is removed by maceration in cold water; demulcent, and nutritious, it is easy of digestion, hence has been recommended in phthisis.

**LICHEN VELLEUS*. Has the same qualities.

**MUSCUS CUMUTALIS*, *Lichen aphthosus*. A drastic vermifuge.

**HAIRY TREE-MOSS*, *Muscus*, *M. arboreus*, *Lichen plicatus*. Astringent.

***LICHEN RANGIFERINUS.** This, as well as the last, has an agreeable smell; used for making Cyprus powder, or French scent bags.

CUP MOSS, *Muscus pyxidatus, Lichen coccineus, L. pyxidatus. Used in hooping cough, and other complaints of the lungs; dose a tea-cup of the infusion, which is generally slightly emetic.

***LICHEN COCCIFERUS.** Used for the same purposes, and in intermittent fevers.

MUSCUS ARBOREUS, *L. prunastri. Astringent, pulmonary; very retentive of odours; used as a basis for perfumed powders.

ASH-COLOURED GROUND LIVER-WORT, *Muscus caninus, Lichen terrestris, L. cinereus terrestris, L. caninus. Used in hydrophobia.

***LICHEN PUSTULATUS.** May be substituted for allspice, dyes a fine red.

CANARY ARCHEL, *Chinney weed, Herb archel, Rocella tinctorum, Fucus, L. Rocella. Allays the tickling cough attendant upon phthisis; and from it is manufactured litmus.

***LICHEN CALCAREUS.** Dried, powdered, and steeped in urine, dyes a fine scarlet.

STONE CROTTLER, *Arcell, Lichen caperatus. Dyes wool of an orange colour; but if the wool is previously boiled in urine, of a russet brown.

LICHEN FARINACEUS. Yields, like many other species of lichen, a mucilage with water, similar to gum Arabic.

CORK, *Corker, Arcell, Kenkeriq, L. omphalodes.* Styptic; dyes wool reddish brown, made into balls.

AUVERGNE ARCHEL, *Ground archel, L. parellus. Used, like the Canary archel, in large quantities to make litmus.

***LICHEN TARTAREUS.** Dyes purple, collected in large quantities for the dyers.

***LICHEN VULPINUS.** Used to poison wolves, dyes wool yellow.

LICHEN, *L. arboreus pullus, L. pullus.* Slightly astringent, used in asthma and old coughs.

USNEA, *L. saxatilis.* Astringent; used in hæmorrhages.

4. HEPATICÆ.

LIVER-WORT, *Hepatica vulgaris, Marchantia conica* ;—STAR LIVER-WORT, *Hepatica stellata, H. fontana, H. polymorpha.*** Aperitive, acrid, astringent; used in diseases of the liver.**

5. MUSCI.

MOSS OF A DEAD MAN'S SKULL, *Usnea cranii humani, Hypnum sericeum, Leskia sericea. Used in hæmorrhages.

***GOLDEN LOCKS**, *Adiantum aureum*, *Polytrichum*, *P. vulgare*. Sudorific, pulmonary.

***BOG MOSS**, *Old wives' tow*, *Sphagnum palustre*, *S. commune*. Scarcely combustible, used to stop cracks in chimneys: very retentive of moisture, used to pack up plants for exportation to distant countries.

6. FILICES.

Sweetish, astringent, and pectoral. A ley of the ashes of most of the species has been used as a wash to promote the growth of the hair, from the alkali contained in them stimulating the skin; whence they have been called *capillary herbs*.

***TRUE MAIDEN-HAIR**, *Adiantum vulgare*, *A. verum*, *Capillus Veneris*, *A. Capillus Veneris*. A fine pectoral, slightly astringent; the decoction is a powerful emetic.

CANADA MAIDEN-HAIR, *Capillus Veneris Canadensis*, *Adiantum pedatum*. Used for maiden-hair.

CAPE OF GOOD HOPE MAIDEN-HAIR, *Adiantum Æthiopicum*. Used as an aromatic astringent.

PEACOCK'S TAIL MAIDEN-HAIR, *Adiantum melanocaulon*, used in India for maiden-hair.

BLACK MAIDEN-HAIR**, *Oak fern*, *Adiantum nigrum*. *Asplenium ad. nigrum*;—COMMON MAIDEN-HAIR**, *Trichomanes ad. rubrum*, *Aspl. trichomanes*;—***WALL RUE**, *Tent wort*, *Ad. album* *Ruta muraria*, *Salvia vitæ*, *Aspl. ruta muraria*, *Aspl. murale*. These have all nearly the same qualities as the true maiden-hair.

***SPLEEN-WORT**, *Milt waste*, *Loradilla*, *Ceterach*, *Asplenium scolopendria*, *Aspl. ceterach*, *Blechnum squamosum*, *C. officinalis*;—*Mules fern*, *Hemionitis*, *Aspl. hemionitis*. Astringent.

***HART'S TONGUE**, *Phyllitis*, *Lingua cervina*, *Scolopendrium*, *Asplenium scolopendrium*, *Blechnum lignifolium*, *S. vulgare*. Astringent, vulnerary, pectoral, and used in spitting of blood, fluxes, and swelling of the spleen.

ROUGH SPLEEN-WORT, *Lonchitis*, *Blechnum boreale*. Root aperient and diuretic.

***FEMALE FERN**, *Common brakes*, *Filix*, *F. fœmina*, *Pteris aquilina*. Root vermifuge; and, in time of scarcity, has been manufactured into a coarse kind of bread.

***MALE FERN**, *Filix mas*, *Polypodium filix mas*, *Nephrodium crenatum*. Root slightly bitter, astringent, a good vermifuge in doses of ʒj to ʒiiij; expelling the tœnia, either by the assistance of a strong purge, or by repeating the powdered root for some time; it is also boiled in ale, to flavour it.

CALAGUALA, *Polypodium calaguala*. Root sudorific.

*POLYPODY OF THE OAK, *Polypodium quercinum*, *P. vulgare*. Root saccharine, and slightly purgative; an infusion ʒvj in half a pint of hot water may be taken at twice; by long boiling becomes bitter.

*SMALL OAK FERN, *Dryopteris*, *Polypodium dryopteris*. Acrid, septic.

*WHITE OAK FERN, *Adiantum Album*, *P. Rhæticum*, *Cyclopteris Rhætica*. Used for maiden-hair.

*BRITTLE CUP FERN, *Ad. album*, *Cyathea fragilis*, *P. fragile*, *Cycl. fragilis*. Used for maiden-hair.

*FLOWERING FERN, *Filix florida*, *Ophioglossum osmunda*, *Osmunda regalis*. The young shoots, made into a conserve, are a specific for the rickets; root boiled in water makes a kind of starch, used to stiffen linen.

*MOON WORT, *Lunaria*, *Osm. lunaria*, *Oph. lunaria*. Leaves astringent.

*ADDER'S TONGUE, *Oph. vulgatum*, *Oph. spicatum*. Used to form a celebrated ointment for wounds.

7. LYCOPODINEÆ.

*CLUB MOSS, *Muscus clavatus*, *Lycopodium*, *L. clavatum*. Herb astringent, restores ropy wine in a few days: pollen very inflammable, used in theatres to imitate lightning, by its being thrown across the flame of a candle; repels water so strongly, that if it be strewed upon a basin of that fluid, the hand may be plunged to the bottom, without being wetted: hence females employed in delicate works use it to keep their hands free from sweat; used also to roll up boluses and pills, in the plica Polonica.

*UPRIGHT FIR MOSS, *Selago*, *Muscus erectus*, *Lycopodium selago*. Violently emetic and purgative, fit only for robust constitutions which can bear rough medicines; used by the country girls in the north to procure abortion; the decoction is employed as a wash to destroy lice in swine and cattle.

9. EQUISETACEÆ.

*DUTCH RUSHES, *Equisetum majus*, *E. hyemale*. Epidermis is formed of silica: used to polish wood and metals. Imported from Holland.

*CORN HORSE-TAIL, *Cauda equina minor*, *Equisetum arvense*, *E. minor*;—*MARSH HORSE-TAIL, *E. palustre*;—*HORSE-TAIL, *Equisetum*, *Cauda equina*, *E. fluviatile*. Astringent and vulnerary.

10. FLUVIATILES.

*POND WEED, *Potamogeton*, *P. natans*. Cooling: used in itchings, and against old ulcers.

11. ZOSTERÆ.

*GRASS WRACK, *Alga*, *Zostera marina*, *Z. trinerva*, *Z. Oceanica*. Cooling; used in inflammations, and the gout. The charcoal used in strumous tumours.

12. AROIDEÆ.

*WAKE ROBIN, *Cuckow pint*, *Barba Aaronis*, *Serpentaria minor*, *Zingiber album*, *Z. Germanicum*, *Arum*, *A. maculatum*. Root acrid, incisive, detersive; gr. x. to ℥j of the fresh root made into an emulsion with gum Arabic and spermaceti, taken three or four times a day, useful in obstinate rheumatism: has been used in washing, instead of soap; but unless the juice is well separated, it frets and chaps the hands of the laundresses.

ARUM DRACONTIUM, *Dracontium pertusum*. Dropsical patients are covered with the fresh leaves, which produce a slight, but universal vesication.

INDIAN TURNIP, *Arum tryphyllum*, *A. ringens*. Root.

DRAGON ROOT, *Arum*, P. U. S. Boiled in milk used in phthisis.

ARUM PEREGRINUM:—*A. macrorhizon*;—*A. Virginicum*;—*Arisarum Amboinum*, *A. trilobatum*;—*Nælschena*, *Arum divaricatum*;—*Calcas*, *Kachoo*, *Colocasia*, *Arum colocasia*;—FRIAR'S COWL, *Arisarum*, *A. tenuifolium*;—DRAGONS, *Dracontium*, *Arum dracunculus*;—MAUN KACHOO, *Arum Indicum*;—*Ol*, *Bol*, *A. campanulatum*;—*A. cordifolium*;—RUMPHAL, *A. Pentaphyllum*;—*A. mucronatum*;—WATER DRAGONS, *Calla palustris*. Roots used as food.

SKUNK CABBAGE, *Pothos fœtida*, *Dracontium fœtidum*, *Ictodes fœtidus*, *Symplocarpus fœtidus*. Root, *Dracontium*, P. U. S. antispasmodic, used in the asthma and hooping cough; the root of *Veratrum viride* is sometimes gathered for it by mistake.

INDIAN KALE, *Black cacao*, *Arum peltatum*, *Caladium esculentum*. Roots and petioles esculent.

EDDOES, *Toyo*, *Arum sagittæfolium*, *Caladium sagittæfolium*. Roots imported from the West Indies, eaten boiled, the rough coat being slit, and the pulp squeezed out, it tastes like soap.

DUMB CANE, *Arum regnium*, *Caladium sequinum*. Roots used in fomentation for the gout, or bruised with lard to rub on dropsical limbs; expressed juice of the stem and root with one fourth

of rum is diuretic, but it can scarcely be swallowed.—*A. violaceum*, *C. violaceum*. Roots esculent.

13. TYPHACEÆ.

*BURR REED, *Sparganium*, *S. ramosum*. Root given with wine for the bites of the viper.

*CATS TAIL, *Reed mace*, *Typha*, *T. palustris*, *T. latifolia*. Flowers mixed with hog's lard to cure burns.

14. CYPERACEÆ.

*LONG-ROOTED CYPERUS, *English galangale*, *Cyperus longus*;—ROUND-ROOTED CYPERUS, *C. rotundus*, *C. odoratus*. Roots sweet-scented, heating, dose ʒjs to ʒj, equal to the foreign aromatics; when first powdered the scent is weak, but by keeping it becomes stronger.—*C. hexastichos*. Used for the true *Cyperus rotundus*.

ADRUE, *Cyperus articulatus*. Root aromatic, stimulant, used for Virginia snake-root: infusion good in vomiting and fluxes.

RUSH NUT, *Cyperus esculentus*. Root catable, and when roasted makes good coffee.

*BULL RUSH, *Holoschænos*, *Scirpus lacustris*. Seed astringent, emmenagogue, diuretic, hypnotic.

*SEA-SEDGE, *Carex arenaria*;—*WOOD SEDGE, *C. sylvatica*;—*BASTARD SARSAPARILLA, *German sarsaparilla*, *Carex villosa*;—**C. hirta*;—**C. disticha*;—**C. intermedia*. Roots used for sarsaparilla.

15. GRAMINEÆ.

Seeds nutritive, the basis of bread; and, in general, form the most usual food of man, and several animals. They are almost universally wholesome; some few possess an aromatic quality; the bran of most contains an acrid rosin, to get rid of which, the seeds are husked, or pearled, by being steamed, dried, and ground in mills for that purpose. The stems contain a saccharine juice.

WHITE WHEAT, *Siligo*, *Triticum hybernum*;—Red wheat, *T. hybernum*;—Calbigia, *T. hybernum granis rubescentibus*;—Bearded wheat, *Bled blanc*, *Brance*, *T. æstivum hybernum*, *T. aristatum hybernum*;—Spring wheat, *Gom*, *Froment de Mars*, *Bled rouge*, *Vernello*, *T. æstivum*;—Cone wheat, *T. turgidum*, *T. pyramidale*;—Square gray wheat, *Gray pollard*, *Duck-bill wheat*, *T. turgidum*;—Egyptian wheat, *Many-eared wheat*, *T. compositum*;—Polish wheat, *Dentzic wheat*, *Forty days' wheat*, *Two months' wheat*, *T. foliaceum*, *T. Polonicum*;—BRENT BARLEY, *Saint Peter's corn*, *Zea*, *Briza*, *Spelta minor*, *Fruentum barbatum*, *T. monococcum*;—Spelt wheat, *Gran farro*, *Far*, *Ador*, *Spelta major*, *Zea dicoccos*, *T. Spelta*;—*Cascola bianca*. *T. Chalepense spicâ brevior nitidissima alba, seu*

T. Josephi, and several other species, are cultivated for grinding into a flour to make the best bread or other farinaceous food; the seeds also serve to make starch, farro and semolino; the *Cascola bianca* is cultivated principally for its brilliant slender straw, used in making hats, although it makes very good bread. The ears of wheat are occasionally eaten parched, but if used for any time are very hurtful.—*Farro*, usually made from spelt wheat, steamed, dried, and pearled as in making pearl barley.—*Soojec*, *Semolino*, *Semola*, *Urena*: The heart of the grain, that resists the action of the mill, the stones being soft, blunt, and not set close, remaining in granules like coarse sand, mostly made from red wheat: imported from Italy.—*Semoletta*, *Semola rarita*. A still smaller kind of pearled wheat separated from the preceding by sifting.—All of these are used for making gruel, and thickening soups and milk; the two latter for making vermicelli and other Italian pastes.—*Bran*, *Furfur*. Mixed with fine white bread to render it laxative; a decoction of it, white drink, common mash, used as a restorative, and alterative for horses.

COUCH GRASS, *Gramen officinarum*, *Triticum repens*. Root used in pectoral decoctions.

WHITE OATS, *Avena sativa alba*;—Black oats, *A. s. nigra*;—Naked oats, *Pill*, *Pilcorn*, *A. nuda*;—Spanish oat, *A. strigosa*.—Grain used to feed horses; fourteen pounds by the day being the usual allowance: but hard worked horses must not be stinted. A great part passes through them unchanged, unless the oats are bruised, or wetted with salt water, in which case they are completely digested: it is also made into grits and flour.—*Grits*, *Gruau d'avoine*, *Avenæ semina*, P. L. *Grutellum*, C. P. Oats cut into two or three pieces, and the husks separated by a mill: used for making a heating, stimulant gruel.

BARLEY, *Spring barley*, *Jow*, *Grudum*, *Hordeum*, *Hordeum distichum*;—*Turkey barley*, *H. d. nudum*;—*Square barley*, *Bere*, *H. vulgare*, *H. tetrastichum*, *H. polystichum vernalis*;—*Naked barley*, *Black barley*, *Barley wheat*, *H. cæleste*, *H. vulgare cæleste*, *H. tetrastichum nudum*, *Zoopyrum*, *Triticospeltum*;—*Full barley*, *Six-sided barley*, *Bigg*, *Round barley*, *Winter barley*, *Greek barley*, *Escourgeon*, *H. hexastichum*, *H. h. hybernum*;—*Sprat barley*, *Battledore barley*, *German rice*, *H. zeocriton*, *H. distichum* β, *Zoocriton commune*;—All of these are cultivated for making pearled barley or malt.—*Pearl barley*, *Hordeum mundatum*, *H. perlatum*, *Hordeum*, P. U. S., *Hordei semina*, P. L., the seeds of spring barley steamed to soften the skin, then dried and ground in a mill to separate the husk, except that lodged in the deep furrow of the seed;—*Scotch pearl barley*, *French barley*, *Hordeum perlatum*, the seeds ground smaller than the last into spherical granules, generally made from bigg or bere:—*Farro di orzo*, made from

sprat barley:—All these pearl barleys are used to make a cooling gruel, to thicken soups, and as ingredients in pectoral and anti-febrile drinks.

Malt, Maltum, Bina, is made from any of the species of barley soaked in water for two or three days, or until the water turns reddish, then drained, spread about two feet thick on a floor where it heats, and emits its root or spike: it is then spread thinner for two or three days, then heaped up again until it heats again, finally dried on a kiln, and the roots separated by screening. Five pounds of spring barley produce about four of malt. Malt is used to make an alterative, analeptic infusion, and its decoction is fermented to form beer and ale.—*Grains*. The exhausted malt left from brewing, used in London as a food for cows, to whose milk it communicates a peculiar flavour, and tendency to putrescence.

RYE, *Secale, S. cereale hybernum*;—*Spring Rye, S. c. æstivum*. Seeds malted and manufactured into rye spirit, also ground to flour.—*Spurred rye, Ergot, S. cornutum*, P. U. S. Diseased grains of rye, which, when ground with healthy rye and made into bread, produces gangrene of the limbs; now in use as an emmenagogue in small doses; and to accelerate the contraction of the womb in protracted labour, and passive uterine hæmorrhage; dose 10 to 15 gr. powdered every ten minutes, or as an infusion.

MAIZE, *Indian Corn, Turkey Corn, Formentone, Melicone, Bhoota Mukka, Zea, Z. mays*. Young ears roasted for food; ripe grain made into flour; used by biscuit-bakers.

INDIAN RICE, *Oryza, O. Indica, O. sativa*;—Seeds, *rough rice, Dahn, Paddy*, used to feed birds; a spirit is distilled from it called arrack. Husked seeds, *rice*, boiled for food, and to make an astringent decoction;—*Ground rice*, used for puddings.

MILLET, *Milium Panicum miliaceum, M. esculentum, P. milium*. Husked seeds, *M. mundatum*, used to make gruel, also ground for flour;—*Panic, P. glaucum, Setaria glauca*. Seeds used to feed poultry, and sometimes for gruel;—*Miglio panico, Cognec, P. Italicum, Setaria Italica*. Seeds small, very delicate and wholesome, added in India to beer to make it more intoxicating;—*Chinna, P. pilosum*;—*Saumah, P. frumentaceum*. Seeds used in India as grain.

INDIAN CORN, *Natchenny, Morhua, Sesame, Sesamum, Cynosurus coracanus*. Seeds size of a mustard-seed, dark coloured, fine flavoured, made into milk gruel, or ground into flour.

***SPRING GRASS**, *Anthoxanthum odoratum*. Nearly resembles camel's hay and Indian nard; dried herb used as a substitute for tea: the very agreeable odour of new hay is owing to this grass; root aromatic. 12lb. of hay, or at most 14lb. is the full quantity

that ought to be allowed to a horse that works regularly and moderately.

***FLOTE GRASS**, *Manna grass*, *Gramen mannae*, *Ulva*, *Typha*, *Festuca fluitans*.—Husked seeds, *Russia seeds*, *manna seeds*, nutritive, sweet, eaten.

SUGAR CANE, *Arundo saccharina*, *Saccharum officinale*;—*Chinese sugar cane*, *S. Sinense*. Juice yields sugar.—**Reed*, *Arundo vallisitoria*, *A. phragmites*. Root diuretic, depurative; panicles dye wool green.—*Bamboo cane*, *A. tabaxifera*, *A. bambos*, *Bambusa arundinacea*;—*B. baccifera*. Yield tabasheer.

***REED GRASS**, *Gramen arundinaceum*, *Arundo calamagrostis*;—*Great reed*, *A. donax*. Roots diuretic and emmenagogue.

***CANARY GRASS**, *Phalaris*, *P. Canariensis*. Juice of the herb drank in pain of the bladder: seed used to feed small birds, and ground to make flour paste.

WARROOGO, *Paspalum frumentaceum*. Seeds used for food.

JOB'S TEARS, *Lachryma Jobi*, *Coix lachryma*, *C. ovata*. Seeds diuretic, and used to make anodyne necklaces for teething children.

CANADA RICE, *Zizania aquatica*. Bears the cold better than any other species of grain, and would probably become the bread-corn of the north, beyond the latitudes in which oats grow freely, from its productiveness, but that its seeds do not ripen all at one time.

LEMON GRASS, *Camel's hay*, *Sweet rush*, *Schœnanthus*, *Juncus odoratus*, *Andropogon schœnanthus*. Stalk and leaves aromatic, sharp-tasted, heating, attenuant, discussive, tonic; contains a resin analogous to myrrh: a species in Mithridate and Venice treacle. The infusion of it drank in India by those with whom Chinese tea does not agree.

GINGER GRASS, *Nard Syriaque?* *Andropogon parancura*. An essential oil is distilled from it in India.

INDIAN SPIKENARD, *Nardus Indica*, *Andropogon nardus*. Bitter, smells like cyperus, and has the qualities of camel's hay; a species in Mithridate and Venice treacle.

TURKEY MILLET, *Indian millet*, *Jooar*, *Durra*, *Milium Indicum*, *Holcus sorghum*, *Sorghum commune*. Grain black, yields little flour, used to feed poultry.—*White flat-seeded sorgho*, *S. album*, *H. sorghum*;—*Saggina rubra*, *Sorghum vulgare rubens*, *S. Arduini*, *H. rubens*;—*Black-seeded sorgho*, *H. niger*;—*Guinea corn*, *Barbadoes millet*, *Milium Sabæum*, *S. vulgare bicolor*, *H. bicolor*;—*Couscous*, *Bajorah*, *Panicum Americanum*, *H. spicatus*, *Pennisetum spiculum*, *Pennicillaria spicata*;—*Yellow-seeded Indian millet*, *H. dachna*, *S. saccharatus*, *H. saccharatus*. Seeds used as breadcorn,

or made into gruel.—*H. Cafer*. Stalk very saccharine, juice made into sugar.

***DRANK**, *Wild oat grass, Bromus, B. sterilis*. Seed drying, corrects stinking breath; decoction vermifuge.

GUILNO, *Bromus catharticus*. Seed? purgative.

16. JUNCEÆ.

***COMMON SOFT RUSH**, *Juncus vulgaris, J. effusus*;—**Pricking large searush, Oxyschœnos, J. acutus*. Astringent.

***SWEET FLAG**, *Calamus aromaticus, Acorus calamus, A. undulatus*. Root, *calami radix*, broad, few-jointed, a sweet-scented agreeable stomachic, which might be used for the foreign spices; dose from ʒj to ʒj; used to flavour Prussian rye spirit and French snuff. Green root is candied.—*A. verus, A. Indicus, A. Asiaticus*. Root slender, many-jointed; aromatic.

17. PALMÆ.

By tapping many of these trees they yield a juice called *toddy*, which when drunk fresh in the cool of the morning is a mild aperient; when the day gets warm it begins to ferment and is converted into wine, and lastly, vinegar, unless boiled down for a coarse brown sugar, *jaggery*. The pith of the trunk of many palms yields by washing a fecula, *sago*; and the kernels of their nuts yield by expression a butter-like oil.

DATE TREE, *Palma, Phœnix dactylifera*. Fruit, *dates, dactylus*, saccharine, fleshy, emollient, slightly astringent, and pectoral.

SAGO PALM, *Sego, Sagou, Sagus genuina, S. palma pinus, S. vinifera*. Yields the best sago.

SAGUASTER MAJOR, *Caryota urens*. Yields toddy and sago; juice of the fruit used to poison wells; kernel made into a sweetmeat.

GUINEA PALM, *Oil palm, Palma oleosa, Elæis Guinensis*. Yields palm oil.

PRICKLY POLE, *Cocos Guinensis, Bactris rotunda, B. minor*. Fruit oily.

COCOA TREE, *Palma cocos, Cocos nucifera*. Yields the best toddy; fruit bud *cabbage*, used for food; nuts, *cocoa nuts*, contain a milky juice, very refreshing; flesh strong-tasted, very nutritive, fattening, used in stews, rubbed down with water used as milk; yield an oil by boiling or expression. Confounded with cacao nut.

BUTTER-NUT TREE, *Cocos butyracea*. Fruit yields a solid oil.

NIPA PALM. *Cocos Nypa*. Yields toddy.

GREAT MACAW TREE, *Black ebony tree, Ebenus Æthiopica, Cocos aculeatus, C. fusiformis*. Yields macaw fat.

CALAMUS DRACO. Fruit yields dragon's blood.

SUGAR PALM, *Borassus gomutus*, *Arenga saccharifera*. Yields sago and excellent toddy.

CHAMÆROPS. A species of this genus appears to yield gum caranna.

DWARF PALM, *Chamæripes*, *Palma prunifera*, *Phœnix humilis*, *Chamærops humilis*. Said to yield bdellium: fruit, wild dates, astringent.

MALDIVIAN COCOA-NUT TREE, *Borassus Sechellensis*, *Lodicea Sechellarum*, *L. Maldivica*. Fruit, sea cocoa-nut, but indifferent eating, used in typhus fever.

WAX PALM, *Ceroxylon audicola*. Trunk covered two inches thick with wax and rosin.

PALMYRA TREE, *Lontarus domestica*, *Borassus flabelliformis*. Yields toddy, and also bdellium.

CABBAGE PALM, *Areca oleracea*. Flowering bud, or cabbage, is highly esteemed; yields an oil.

BETEL NUT TREE, *Areca*, *Faufel*, *A. Faufel*, *A. Catechu*;—*A. globulifera*. Husk of the fruit *pinang*, chewed with betel and a little lime as a sialagogue and stomachic, reddens the spittle: catechu is extracted from the wood.

CALEZA DE NEGRO, *Phytelephas macrocarpa*;—*P. microcarpa*. Milk of the fruits becomes hard like ivory, and of a fine taste.

GRASS TREE, *Acaroides resinifera*, *Xanthorrhœa resinosa*, *X. hastilis*, and other species; stem yields yellow gum.

OUVIRANDRA FENESTRALIS, *Hydrogeton fenestralis*;—*Saururus natans*, *Aponogeton monostachyon*;—*A. distachyon*. Roots bulbous, eaten when roasted.

WILD DATE TREE, *Elate sylvestris*. Yields a pleasant toddy.

BROAD-LEAVED SAGO PALM, *Cycas circinalis*;—*Libby tree*, *C. revoluta*;—*C. inermis*;—*Great fan palm*, *Corypha umbraculifera*;—*Zamia cycadis*, *Z. lanuginosa*. All yield sago.

18. COMMELINEÆ.

AMERICAN SPIDER WORT, *Tradescantia Virginiaca*. Leaves used as a pot-herb, aperient.

19. COLCHICACEÆ.

Almost all the parts of these plants are so active as to be really poisonous.

***MEADOW SAFFRON,** *Colchicum*, *C. autumnale*. Bulb, *colchic radix*, taken up towards the end of July, sliced transversely immediately to prevent its growth, and dried without heat, is a very powerful sedative, cathartic, diuretic, and expectorant; but is

inert in the autumn, or when dried by heat; dose of the bulb, gr. ss to gr. iij, made into a pill. Seeds, *colchici semina*, milder than the root. The Dublin College indicate the bulb as the part used in medicine. The active properties of colchicum have been discovered to depend on an alkaline principle called *veratria*. *Official preparations of the bulb*.—*Vinum colchici*, *L.* *Acetum colchici*, *L. D.* *Oxymel colchici*, *D.* *Syrupus colchici autumnalis*, *E.* *Of the seed*.—*Tinctura seminum colchici*, *D.*

Colchicum hermodactylus. Roots, true *hermodactyles*, *hermodactyli*, incisive and purgative, in doses of ℞ss to ℥ss.

WHITE HELLEBORE, *Elleborus albus*, *Veratrum*, *V. album*. Root, *veratri radix*, a drastic emetic, in doses of gr. ss to gr. iij; for horses, ℥ss to ℥j, in farcy; also used as a sternutatory, and in itch ointments; juice used to poison weapons for war or hunting. *Official preparations*.—*Unguentum veratri*, *L. D.* *Decoctum veratri*, *D.*

AMERICAN HELLEBORE, *Veratrum viride*. Root emetic.—*Indian caustic barley*, *Cevadilla*, *V. sabadilla*. Capsules and grains caustic: powder used by monks to kill fleas and lice.

METHONICA SUPERBA. Root, a very active purgative.

HELONIUS DIOICA. Infusion of the root anthelmintic; tincture is bitter and tonic.

20. TULIPACEÆ.

TULIP, *Tulipa*, *T. Gesneriana*. Root nutritive.

DOG'S-TOOTH VIOLET, *Dens caninus*, *Erythronium dens caninus*. Root eases the colic, and is used in epilepsy and tinea.

ERYTHRONIUM AMERICANUM, *Erythronium*, *P. U. S.*;—*East Indian squill*, *E. Indicum*. Roots used for squills.

RED LILY, *Hemerocallis*, *Lilium bulbiferum*. Root cathartic; leaves cooling.

TURK'S CAP, *Martagon*, *Lilium martagon*. Root diuretic and emmenagogue.

WHITE LILY, *Lilium album*, *L. candidum*. Bulb roasted is emollient and ripening.

INDIAN-BREAD PLANT, *Yucca*, *Yucca gloriosa*. Root yields cassava, or Indian bread.

21. BROMELIÆ.

PINE APPLES, *Ananas*, *Bromelia ananas*. Fruit highly odorous, esculent, astringent.

AGAVE AMERICANA. Sap of the leaves saccharine, used as honey, and to make a wine, *pulque*.

CURATOE, *Agave vivipera*. Juice of the leaf, mixed with lime-juice and treacle, a good dressing for ulcers; the inspissated juice

used as a plaster in gout; roots chewed in diarrhœa.—*Tillandsia usneoides*. Used in hæmorrhoids.

PITCAIRNIA CRYSTALLINA, *Pouretia lanuginosa*. Exudes a crystalline gum from every part.

22. ASPHODELI.

ALOE SPICATA. Said to yield Socotrine and Cape aloes.—*Aloe perfoliata*, now broke up into eighteen species, some of the inferior kinds of aloes. A nutritive fecula is extracted from some species.

SPIDER WORT, *Phalangium, Anthericum liliastrum*. Leaves, flower, seeds, used against bites of scorpions: roots similar to those of squills.—*A. planifolium*;—*A. bicolor*. Bulbs purgative, may be used for jalap.

KING'S SPEAR, *Asphodelus verus luteus, Hasta regia, Asphodelus luteus*;—*White asphodel, Asphodelus verus albus, A. ramosus*. Roots diuretic.

ALSTRÆMERIA PEREGRINA;—*A. ligtu*;—*A. revoluta*. Roots yield an esculent farina called liuta.

*MUSK-GRAPE FLOWER, *Bulbus vomitorius, Hyacinthus Muscari*. Root emetic, used in diseases of the bladder.

*HARE BELLS, *Hyacinthus, H. non-scriptus*. Root astringent, yields a gum.

*STAR OF BETHLEHEM, *Ornithogalon, O. umbellatum*. Root eaten raw and dressed: seeds used to season bread.

SQUILL, *Scilla, S. maritima*. Bulb, *scillæ radix*, acrid, bitter, nauseous, and emetic, powerfully incisive, diuretic, and expectorant; dose of the fresh root, gr. v. to gr. xv; of the dried, gr. j to gr. iij, twice a day. *Official preparations*.—*Pulvis Scillæ, D. E. Tinctura Scillæ, D. E. L. Acetum scillæ, D. L. E. Pulvis scillæ comp. D. L. E.*

SCILLA LILIO-HYACINTHUS. Bulb used as a purgative.

LEEKs, *Porrum, Allium porrum*. Bulb, *porri radix*, expectorant, stimulant, and contains a little sulphur: juice a powerful diuretic, dissolving the calculi formed of the earthy phosphates.

*WILD LEEKS, *Scorodoprasum, Allium Ampeloprasum*. Leaves partake the properties of garlic and leeks.

*VINE LEEKS, *Porrum vitigineum, A. arenarium*. Leaves more heating than leeks; diuretic and emmenagogue.

MOLY OF HOMER, *Allium nigrum*;—*Moly of Dioscorides, A. hirsutum*. Root in a pessary, used in prolapsus of the womb.

ONIONS, *Cepa, Allium cepa*. Root esculent; the juice, when fermented, forms vinegar holding manna in solution.

GARLIC, *Allium, A. sativum*. Bulbs, *allii radix*, esculent, strong tasted, stimulant; used in sauces.

ROCAMBOLE, *Viper's garlic, Allium contortum*. Bulbous heads used in sauces: milder than garlic.

***CROW GARLIC**, *A. vineale*. Roots diuretic.

SHALLOTS, *A. Ascalonicum*. Root used as a sauce.

***WILD GARLIC**, *A. oleraceum*. Roots diuretic.

WELSH ONION, *A. fistulosum*. Bulbs and young leaves used in salads.

***CIVES**, *A. schænoprasum*. Young leaves used in salads.

***SPOTTED RAMSONS**, *Victoralis, A. magicum*. Roots heating; used also as an amulet preserving against spectres and infected air, probably inspiring courage by their stimulant qualities.

***RAMSONS**, *A. ursinum*. Infused in brandy, used in gravelly complaints.

23. TRILLIACEÆ.

TRILLIUM CERNUUM. Root violently emetic; berry nauseous and poisonous.

24. ASPARAGI.

DRACÆNA TERMINALIS. Root used in diarrhæa.—*D. draco*. Yields, by incision, the purest dragon's blood.

***HERB PARIS**, *True love, One berry, Herba Paris, Paris quadrifolia*. Alexiterial, recommended by Boerhaave in maniacal cases, dose ʒj a day; leaves and berries narcotic; root emetic, dose ʒij.

***ASPARAGUS**, *Asparagus officinalis*. Diuretic; one of the five opening roots; shoots eaten as a dainty, but produce, in some, bloody urine, and accelerate the fits of the gout.

ROCK SPARROW-GRASS, *Asparagus petræa, Corrua, A. cutifolia*. Root opening, diuretic, lithontriptic; shoots nutritive.

***SOLOMON'S SEAL**, *Polygonatum, Sigillum Salomonis, Convallaria polygonatum*. Root vulnerary, astringent, diuretic, but may be added to flour in time of scarcity; used in a recent state as a cataplasm to take away the marks of bruises; berries, flowers and leaves, acrid and poisonous.

***LILY OF THE VALLEY**, *Lilium convallium, Convallium majalis*. Flowers cephalic, in doses of ʒj; or dried and used as a sternutatory.

ONE BLADE, *Monophyllon, Convallaria bifolia*. Flowers alexiterial.

***BUTCHER'S BROOM**, *Knee holly, Ruscus, Bruscus, Ruscus aculeatus*. Root and berries opening: seeds roasted for coffee.

HORSE-TONGUE, *Hippoglossum*, *Bislingua*, *Ruscus hypoglossum* ;—*Alexandrian bay*, *Laurus Alexandrina*, *R. hypophyllum*. Roots cathartic.

MEDEOLA VIRGINICA. Root diuretic.

CHINA, *Tsinaw*, *Smilax china*. Roots yield half their weight of a reddish sago ; imported from the East Indies.

ROUGH BINDWEED, *Smilax aspera* ;—*Wild yam*, *Bastard ipecacuanha*, *Bastard china*, *S. Pseudochina*.

SARSAPARILLA, *Smilax sypilitica*. Root sudorific, used as sarsaparilla.

SARSAPARILLA VINE, *Smilax sarsaparilla*. Root, *sarsaparilla radix*, gently tonic, and a cleansing sudorific, used in syphilis, chronic eruptions, the cachexiæ, and rheumatism, in powder, ℥j to ʒj, and in decoction. It is administered in the form of infusion, decoction, or of fluid extract. *Officinal preparations*. Infus. sarsap. comp. *D.* Decoctum sarsap. *D. L. E.* Decoct. sarsap. comp. *L. D.* Syrupus sarsap. *D.* Extract. sarsap. *D. L.* Extract. sarsap. fluidum, *D.* The roots of aralia are mixed with it, and those of several species of carex sold for it.

***BLACK BRIONY**, *Brionia nigra*, *Tamus communis*. Root diuretic, incisive, and opening ; externally resolvent, young shoots eaten as asparagus.

25. DIOSCOREÆ.

WILD YAM, *Dioscorea sativa* ;—*White dry yam*, *Negro yam*, *D. alata* ;—*Yam pee*, *D. triphylla* ;—*Ceylon white yam*, *D. bulbifera* ;—*Purple yam*, *D. purpurea* ;—*Oncus esculentus*, *Oncorhiza esculenta*. Roots very large, tuberous, farinaceous, esculent ; and made also into sago.

27. NARCISSI.

***NARCISSUS**, *Narcissus poeticus* ;—**Daffodil*, *N. pseudonarcissus* ;—*Tuberose*, *Polyanthes tuberosa*. Roots emetic ; used also as a dressing to burns.

28. IRIDES.

FLORENTINE ORRICE, *Iris Florentina*. Fresh root a drastic hydragogue, dose ℥j to ʒj ; when dried sialogogue, errhine ; used to give a violet scent to oils, cut into peas to keep open issues ; juice of the root, ʒj for a dose, has been used in dropsy.

***YELLOW WATER FLEUR DE LUCE**, *Acorus adulterinus*, *Pseud-acorus*, *Gladiolus luteus*, *Iris pseudacorus*. Root a nauseous drastic purgative, but used in dropsy when other medicines fail, dose gtt. lxxx of its juice every hour or two in syrup of buckthorn ; seeds roasted make coffee.

COMMON FLEUR DE LUCE, *Iris vulgaris*, *I. Germanica*. Fresh root hydragogue, errhine; externally, repels eruptions.

BLUE FLAG, *Iris versicolor*, P. U. S. Root hydragogue.—*I. tuberosa*. Roots incisive and purgative, in doses of ℞ss to ʒss; considered by some as hermodactyles.

*STINKING GLADWYN, *Iris fœtidissima*. Juice of the root sternutatory, useful also in dropsy and scrofula.

29. GLADIOLIDEÆ.

CORN FLAG, *Gladiolus communis*. Root has the same qualities as that of iris pseud-acorus, but is weaker.

*CROCUS, *Crocus sativus*. Root has been proposed to be made into bread in times of scarcity; summits of the pistils dried, *hay saffron*, *crocus in fieno*, *croci stigmata*, in doses of gr. v. to ʒss, cordial, emmenagogue, anodyne, and exhilarant; dyes a fine yellow, used in cookery to colour rice, &c.

CAKE SAFFRON, *crocus in placenta*, formerly, and still in some countries, esteemed the best, being now reduced with marygold flowers, and those of bastard saffron, or safflower; which is perhaps the true explanation of the very different effects ascribed to saffron by medical practitioners.

30. MUSÆ.

PLANTAIN TREE, *Musa*, *Musa Paradisaica*;—*Banana*, *Musa sapientum*. Fruit very nutritive, supposed to be the original and proper food of man; eaten either baked whole, or with milk and sugar, or sliced and stewed.

31. CANNÆ.

Roots and seeds mostly aromatic, and used as spices.

AMOMUM ZINGIBER. Roots, *ginger*, *zingiber*, *zingiberis radix*, in powder, gr. x. to ʒj, heating, aromatic, stomachic, cordial; in infusion, diaphoretic; used also as a spice.—*Black ginger*, the roots merely scalded and dried in the sun;—*Preserved ginger*, the fresh root, preserved in sugar-cane juice. Ginger enters into a great many officinal preparations: as Tinctura zingib. Syrup. zingib. Confectio opii. Pulv. aromat. electuarium scammonii. Infus. Sennæ compos., &c. &c.

BROAD-LEAVED GINGER, *White zedoary*, *Amomum zerumbet*, *Curcuma zerumbet*. Roots, *Bengalee*, *risagon*, *zerumbet*, *cassamunar radix*.

KEMPFERIA ROTUNDA. Roots, *round zedoary*, *zedoaria rotunda*;—*Turmeric zedoary*, *Amomum zedoaria*, *Curcuma zedoaria*. Roots, *zedoaria longa*, *z. flava*, *zedoariae radix*.—Are all fragrant, stimu-

lant, stomachic, gr. x to ʒss, and used as spices. The yellow zedoary dyes a pale yellow.

AMOMUM VERUM, *A. racemosum*. Capsules, *great cardamoms*, *amomum in the bunch*, *cardamomum majus*;—*A. cardamomum*, *Elettaria cardamomum*. Capsules, *lesser cardamoms*, *cardamomum minus*. Seeds, *cardamomi semina*; stimulant, drying, assisting digestion, emmenagogue.

AMOMUM GRANA PARADISI. Seeds, *grains of Paradise*, *Guinea grains*, *grana Paradisi*, *cardamomum maximum*; aromatic, stimulant, tastes very hot and biting like pepper; used by some in large doses to cure agues: also to give a false strength to wine, beer, vinegar, and other liquors.

MARANTA INDICA;—*M. arundinacea*. Roots yield Indian arrow-root.

GREAT GALANGALE, *Galanga major*, *Amomum galanga*, *Maranta galanga*, *Alpinia galanga*. Root tuberous, covered with rings, brownish, inside dirty white, a faint aromatic smell, tastes like pepper and ginger mixed.

SMALL GALANGALE, *Galanga minor*, *Costus*, . . . ? *Amomum*, . . . ? Root warmer and more fragrant than galanga major, outside brown, inside red. In India is ten times the price of the other. Both are warm stomachics, and emmenagogues.

INDIAN CANE, *Canna Indica*. Seeds, *Indian shot*, cordial, vulnerary.

COSTUS ARABICUS. Root, *sweet costus*, aromatic, rather acrid, with the smell of orrice, stomachic, tonic, discussive. Becomes bitter by keeping.

CURCUMA, *C. longa*. Roots, *turmeric*, imported from the East Indies in tubers, about the size of the little finger; aromatic, tonic, discussive, and heating; used especially in the jaundice and the itch, dose ʒj to ʒij: dyes a deep yellow, and is used as a seasoning in Indian cookery.

CURCUMA ANGUSTIFOLIA. Root nutritive, excellent for sick persons, ground to a flour; yields, by washing, East Indian arrow root.

ALBINA CHINENSIS;—*Stissera curcuma*;—*Dietrichia minor*;—*D. major*;—*Emdlia supersonata*;—*Thalia canneæformis*;—*Buekia*. Root used as spices.

32. ORCHIDÆ.

These plants are esteemed as highly aphrodisiac.

EPIDENDRON VANILLA, *Vanilla aromatica*. Pods, *banilloes*, *vanilla*, brown, as thick as a quill, covered with an efflorescence, in bundles of 5 oz. each, dipped in oil; cephalic, stomachic, used

to scent chocolate and liqueurs ;—*Vanillon*. From the Brazils in iron chests, dark coloured ;—*Pompova*. From the Spanish colonies, thick ;—*Simarouba*. From St. Domingo, has scarcely any smell : are probably from different vines.

GREEN WITHE, *Epidendron claviculatum*. Expressed juice, in doses of a table spoonful, cathartic, vermifuge, and diuretic.

*TWAY BLADE, *Bifolium*, *Ophrys ovata* ;—**Bastard hellebore*, *Helleborine*, *Serapias latifolia* ;—*French satyrion*, *Satyrium*, *Orchis*, *O. militaris* ;—**Butter-fly satyrion*, *Satyrium*, *Orchis bifolia* ;—**Dog stones*, *Cynsorchis*, *Orchis pyramidalis* ;—*Goat stones*, *Tragorchis*, *Satyrium hircinum*, *O. hircina* ;—**Triple lady's traces*, *Triorchis*, *Ophrys spiralis* ;—**Male satyrion royal*, *Orchis palmata*, *O. latifolia* ;—**Fools stones*, *O. Morio* ;—**Male fools stones*, *O. mascula*. Roots washed and baked, *salep*, are nutritive, restorative, and aphrodisiac ; *salep* forms a stiff jelly with potash, ammonia, or magnesia.

*LARGE MILITARY GOATSTONES, *O. fusca*. Dried leaves have the same scent as Tonca bean, and are used to scent snuff, as are also those of some other species of orchis.

33. PANDANÆ.

BREAD NUT, *Brocimum alicastrum*. Fruits eatable.

VAQUOIS, *Pandanus* Seeds esculent.

34. ALISMACEÆ.

*GREAT WATER PLANTAIN, *Plantago aquatica*, *Alisma plantago aquatica*. Root used in hydrophobia.

*ARROW HEAD, *Sagitta aquatica*, *Sagittaria sagittifolia*. Herb acrid, opening, and incisive ; root bulbous, very nutritive.

36. HYDROCHARIDES.

*FROG BIT, *Morsus ranae*, *Hydrocharis morsus ranae*. Root astringent, cooling.

FRESH WATER SOLDIER, *Aloe palustris*, *Stratiotes aloides*. Used in wound drinks.—**Watersengreen*, *Stratiotes*, *Pistia aloides*, refrigerant.

*DUCKS MEAT, *Lens palustris*, *Lemna major* ;—*L. minor*. Are used externally as coolers.

37. CYCADEÆ.

MEAL BARK TREE, *Cycas Caffrae* ;—*C. circinalis* ;—*C. revoluta*. Pith of the trunk made into sago.

38. CONIFERÆ.

STONE PINE, *Pinus pinea*. Nuts, *zirbel nuts*, *pine nuts*, kernels

pectoral, are eaten raw or preserved, used in emulsions, yield oil by expression.

APHERNOUSLI PINE, *Pinus cembra*. Yields Briançon turpentine: nuts, *cembro nuts*, eatable, yield oil: shoots yield true Riga balsam by distillation.

***COMMON FIR**, *Silver fir tree*, *Pitch tree*, *Abies Pinus picea*. Yields Strasburgh turpentine, by puncturing the small vesicles of the bark in which it is contained, and fir rosin, by larger incisions.

NORWAY SPRUCE FIR, *Yew-leaved fir*, *Abies rubra*, *Pinus abies*. Exudes common frankincense, and yields Burgundy pitch by incision; tops used to make spruce beer.

BALM OF GILEAD FIR, *Pinus balsamea*. Yields Canada balsam.

***SPRUCE FIR**, *Pinus Canadensis*. Young shoots, *turiones pini*, in beer, antiscorbutic, cooling, antiseptic, and tonic.

***LARCH**, *Larix*, *Pinus larix*. Exudes larch gum and Briançon manna; yields, by boring, larch turpentine.

CEDAR OF LEBANON, *Pinus cedrus*. Wood astringent, antiseptic.

MOUNTAIN PINE, *Mughlo pine*, *Pinus pumilio*. Exudes Hungarian balsam.

***SCOTCH FIR**, *Pinus sylvestris*. Exudes white rosin; yields, by incision, common turpentine; inner bark eaten raw, or made into cakes and baked; tar is distilled from it, and lamp-black obtained by burning its refuse branches in tents.

SWAMP PINE, *Pitch pine*, *Pinus palustris*. Yields American turpentine.

PINUS MARITIMA. Yields French or Bordeaux turpentine.

PINUS dammara, *Agathis loranthifolia*. Yields Ava dammar.

SULA PINE, *Saul tree*, *Shorea robusta*. Yields Nepaul danmar.

ARBOR VITÆ, *Thuja occidentalis*. Leaves alexiterial.—*T. quadrivalvis*;—*T. Articulata*. Yield gum sandarach.

CYPRESS, *Cupressus*, *C. sempervirens*. Wood and berries astringent, vermifuge; nuts, strobiles, *nucis cupressus*, astringent.

VIRGINIA CYPRESS, *Cupressus disticha*. Leaves dye cinnamon colour.

***JUNIPER**, *Juniperus*, *J. communis*. Tops, *juniperi cacumina*, diuretic, sudorific, antisyphilitic, may be substituted for guaiacum; berries, *juniperi baccæ*, incisive, discussive, very stomachic; infusion drank as tea; if the seeds are broken, they communicate

a bitter tart flavour. *Officinal preparations*.—Oleum juniperi and Spirit. jun. comp. *D. L. E.*

BERRY-BEARING CEDAR, *Oxycedrus, Juniperus Phœnicea*. Wood diaphoretic, by distillation yields huile de cade; berries discutient; exudes American olibanum.

SAVINE, *Sabina, Juniperus sabina*. Leaves, *sabinæ folia*, emmenagogue, producing abortion, diuretic, vermifuge; dose, in powder, gr. xv to ʒj or ʒj, twice or thrice a day: externally escharotic, applied to warts, &c., once a day.

JAMAICA CEDAR, *Juniperus Bermudiana*. Wood used for inclosing crayons.

RED CEDAR, *Juniperus Virginiana*. Wood, *Carolina cedar*, used for inclosing crayons: leaves used as savine.

ROSA MALA, *Altingia excelsa*. Yields liquid storax.

39. TAXIDÆ.

***YEW**, *Taxus, T. baccata*. Wood very hard, thought to be poisonous, as were also the berries, *glob berries*, but they may be eaten; leaves poisonous to cattle; pollen may be substituted for that of lycopodium.

JAPAN YEW, *Taxus nucifera*. Berries eatable, aromatic.

YELLOW WOOD, *Taxus elongatus*. Wood scentless; sold for yellow sanders, but of little value.

GINGKO, *Gingko biloba*. Seeds yield oil.

SHRUBBY HORSE-TAIL, *Ephedra distachya*. Berries sweet, eatable; used in lientery and menorrhagia, given in wine.

40. SALICÆ.

***WHITE WILLOW**, *Salix S. alba*. (Bark, *salicis cortex, P. D.*)

***CRACK WILLOW**, *Salix fragilis*. (Bark, *salicis cortex, P. D.*)—

***YELLOW DWARF WILLOW**, *Rose willow, S. helix, S. monandra*;

—***NORFOLK PURPLE WILLOW**, *S. purpurea*;—***OZIER**, *S. viminalis*.

(Bark, *salicis cortex, P. L.*)—***SALLOW**, *S. capræa*;

***ALMOND-LEAF WILLOW**, *S. amygdalina*;—**WEEPING WILLOW**, *S.*

Babylonica;—*S. eriocephala*. (Bark, *Salix, P. U. S.*)—*Salix*

herbacea. Barks very bitter, febrifuge, substituted for Peruvian bark, ʒj to ʒj; leaves astringent, used in tanning.

***SWEET WILLOW**, *Bay willow, Salix laurea, S. pentandra*.

Bark, the original willow bark recommended as a febrifuge;

leaves aromatic, yield prussic acid by distillation, when dried,

with 1-30th of potash; dye silk, linen, and woollen, impregnated

with alum, of a fine yellow.

CAROLINA POPLAR, *Populus balsamifera*. Yields tacamahaca

in the lump; buds very resinous, infused in oil to form a vulnerary balsam.

*BLACK POPLAR, *Populus nigra*. Buds resinous.

*ABELE, *White poplar, Populus alba*;—*Aspen, *Trembling poplar, P. tremula*. Barks useful in strangury.

LOMBARDY POPLAR, *Populus pyramidalis*. With nitromuriate of tin, dyes a fine yellow.

*ITALIAN POPLAR, *Populus fastigiata*. Bark dyes mordore colour.

POPULUS TREMULOIDES. Bark tonic and stomachic.

41. BETULIDÆ.

*BIRCH, *Betula, B. alba*. Leaves used in itch and dropsy.

*ALDER, *Alnus, A. glutinosa, Betula alnus*. Bark and leaves very astringent, vulnerary.

42. CORYLIDÆ.

*HAZEL, *Nut tree, Avellana, Corylus avellana*. Nuts imported from Barcelona; kernel of the nut oily, pectoral, used in emulsions, yields oil.

*OAK TREE, *Quercus, Q. Robur*. Bark, *quercus cortex*, chiefly used for tanning leather; astringent, febrifuge, gr. xv to ʒss, every two hours, also externally in fomentation; a decoction of the bark, with some alum, very useful in relaxations of the uvula: seeds, *oak-corn, acorns, glands quercinæ*, and their calyces, *cups, cupulæ*, as also the wood, leaves, and the excrescences produced by the bite of insects, *oak-apples*, are equally astringent, and of great use in tanning and dyeing.—*Tanner's bark*. The exhausted bark left after tanning leather, used by gardeners to produce a slight equable heat by its fermentation.—*Tan balls*. The muddy sediment of tanpits, used for summer fuel. *Officinal preparations*.—Decoctum quercus, *D. L.* Extractum quercus, *D.*

WHITE OAK, *Quercus alba*. Bark emetic.

QUERCUS *castanea*;—*Q. Castellana*;—*Q. esculus*. Acorns eatable.

BLACK OAK, *Quercitron, Quercus nigra, Q. tinctoria*. Bark used in dyeing yellow; imported from America.

HOLM OAK, *Quercus ægylops*. Cups, *valonia*, very large, used in dyeing instead of nut-galls, imported from Greece.

QUERCUS INFECTORIA. Excrescences, *nut-galls, gallæ, galla*, very astringent, tonic, antiseptic; those from which the insect has not escaped, *blue galls*, are the most esteemed: imported from Aleppo.

CORK TREE, *Quercus suber*. Bark, *cork*, *suber*, very light, elastic, astringent, more used in stopping vessels than in medicine.

EVER-GREEN OAK, *Quercus ilex*. Astringent, more so than the common oak. On this live the kermes insects.

QUERCUS BALLOTA. Acorns used as food; yield oil.

QUERCUS FALCATA. Leaves used externally in gangrene.

***BEECH**, *Fagus*, *F. sylvatica*. Seeds, *beech mast*, useful in gravelly complaints, yield oil by expression.

***SPANISH CHESTNUT**, *Castanea*, *Fagus castanea*. Bark astringent; fruit, dried upon hurdles over a clear fire, nutritive, pectoral.

CHINQUAPIN, *Castanea pumila*. Bark, *castanea* P. U. S., astringent.

43. PLATANIDÆ.

LIQUIDAMBAR STYRACIFLUA. Bark odoriferous in fumigations; yields, by incision or decoction, liquid storax.—*L. orientalis*. Thought to yield storax.

PLANE TREE, *Platanus orientalis*. Leaves ophthalmic in wine; bark antiscorbutic infused in vinegar.

VIRGINIA PLANE TREE, *Platanus occidentalis*. Root vulnerary, dyes red.

44. MYRICEÆ.

***SWEET WILLOW**, *Dutch myrtle*, *Gale frutex*, *Myrica gale*. Strong smelling, driving away insects; leaves astringent, substituted for tea, vermifuge, used as spice.

CANDLEBERRY MYRTLE, *Myrica cerifera*. Roots in infusion very astringent; berries yield green wax.

MYRICA PENNSYLVANICA;—*M. Carolinensis*. Yield green wax.

45. ULMIDÆ.

***ELM**, *Ulmus*, *U. campestris*. Exudes ulmine; inner tough bark, *ulmi cortex*, astringent, febrifuge, in doses of ℥j to ʒj; leaves vulnerary.

SLIPPERY ELM, *Ulmus fulva*. Inner bark, *ulmus*, P. U. S. febrifuge.

ULMUS CHINENSIS. Leaves used as tea.

NETTLE TREE, *Celtis australis*. Berries astringent, esculent; kernels yield an oil; wood dyes brown.

46. PIPERIDÆ.

Herbs aromatic; seeds hot, used as spices.

BLACK PEPPER VINE, *Piper nigrum*. Herb acrid, aromatic, stimulant, sialogogue; berry, *black pepper*, *mellagho*, *piper*

LONG PEPPER VINE, *Piper longum*. Unripe fruit, *long pepper*, *per longum*, *piperis longi fructus*, opening, attenuant, stimulant, in doses similar to the former;—*Elephant pepper*, is a larger variety of this species.

SMALL AMERICAN LONG PEPPER, *Mecaxochitl*, *Piper obtusifolium*. Leaves used to flavour chocolate.

BETEL, *Piper betel*. Leaves bitter, stomachic, tonic, highly aphrodisiac; used as a masticatory with areka nut.—*P. siriboa*. Leaves used for those of betel.

JABORAND, *Piper reticulatum*. Juice an antidote against the poison of mushrooms and cassada.

CUBEBA, *Piper cubeba*. Berry, *cabob pepper*, *tailed pepper*, *cubebæ*, *cubeba*, the same quality as the other peppers; used in cookery as a spice, and to ornament boiled poultry, stuck in rows on the sides; also in gonorrhœa ℥ss to ʒjss three times a-day; but in India, ʒij six or eight times a-day. *Official preparation*.—Tinct. cubebæ. *D.*

SANTA MARIA LEAF, *Piper umbellatum*. Herb, in syrup, used in colds and coughs.

PEPPER ELDER, *Piper amalago*. Used externally in baths and fomentations.

CARPAPIGA, *Piper carpapiga*. Leaves used in dyspepsia, and to preserve stuffed animals from insects.

NARROW LEAVED PEPPER, *Piper angustifolium*. Decoction used in venereal diseases.—*P. peltatum*. Fruit used externally in swellings and dropsy.—*P. cordifolium*. Acrid.

PIPER INEBRIANS. Green herb used to make an inebriating drink, as may indeed be most of this genus.—*P. crystallinum*, *Peperomia crystallina*. Has the odour of anise, and may be used for it.

MATHUSKEA, *Saururus vernus*. Root fresh and roasted, used as an emollient poultice, and to allay inflammation.

47. ARTOCARPÆ.

Stem milky, containing elastic gum.

***FIG TREE**, *Ficus vulgaris*, *F. carica*. Dried fruit, *carica*, *caricæ fructus*, emollient, laxative, pectoral, used as a suppurative poultice; milk of the tree caustic, consumes warts; leaves kept long upon the skin, inflame it.

SYCAMORE FIG, *Ficus sycamorus*. Fruit less agreeable and less digestible than the other.

FICUS TOXICARIA. Used to impoison weapons.

FICUS SEPTICA. A powerful vermifuge; milky juice very acrid.

JAMAICA FIG TREE, *Ficus Benghalensis*. Milky juice used against the poison of manchineal.

INDIAN FIG TREE, *Ficus Indica*. Milky juice glutinous, and becomes a soft kind of Indian rubber.

LISBON CONTRAYERVA, *Contrayerva Drakena*, *Dorstenia contrayerva*. Root, *contrajervæ radix*, imported from the West Indies, in pieces about two inches long, packed in bales. When fresh, acrid; when dry, aromatic, stimulant, antiseptic, diaphoretic; dose, gr. x—xxx; in decoction or infusion to ʒij. The roots of yarrow, or of button snake weed, may be used as substitutes.

CAAPIA, *Dorstenia Brasiliensis*;—*D. Drakena*;—*D. Houstoni*. Roots diaphoretic: are all sold as contrayerva.

BREAD FRUIT TREE, *Artocarpus incisa*. Fruit, *meat fruit*, *bread fruit*, when unripe, contains a farinaceous pulp; before the seeds fill the fruit is very pulpy and pleasant.

JACK TREE, *Artocarpus jaca*. Fruit eatable; juice yielded by incision, elastic like Indian rubber; bark said to make Chinese rice paper, used for flower painting; others ascribe this paper to *Nelumbium speciosum*.

WONTAY, *Artocarpus Benghalensis*. Fruit preserved in salt, used in cookery instead of tamarinds.

ANTIARIS TOXICARIA, *Ipo toxicaria*. Milky juice, *upas antiar*, used to poison instruments.

BAGASSA. Tree lactescent; fruit eatable.

***WHITE MULBERRY**, *Morus alba*;—**Red mulberry*, *M. rubra*. Fruits esculent.

***BLACK MULBERRY**, *Morus nigra*. Bark of the root cathartic, vermifuge, dose ʒss in powder; fruit, *mora*, *mori bacca*, esculent, made into a syrup.

FUSTIC, *Morus tinctoria*, *M. xanthoxylum*. Abounds with a sulphureous milk; wood, *old fustic*, *bois jaune*, *bois d'Angleterre*; sulphur-coloured, in large blocks: with alum dyes a very durable yellow colour, with iron liquor drab colours, and with both mordants, an olive.

THOA URENS. Bark yields gum; seed edible.
THOA EDULIS;—*Hedycarya dentata*. Seeds sweet, eatable.

48. URTICEÆ.

***COMMON NETTLE**, *Urtica*, *U. dioica*;—**Roman nettle*, *U. Romana*, *U. pilulifera*. Roots astringent; seeds pectoral.

***SMALL STINGING NETTLE**, *Urtica urens*. Roots astringent, diuretic, depurative; plant used in palsy and lethargy as an irritant, producing a crop of small blisters on the skin; the young shoots boiled as potherbs.

HEMP, *Ganja*, *Cannabis*, *C. sativa*, *C. Indica*. Juice made into an agreeable inebriating drink; seeds oily, cooling, anti-phrodisiac, pectoral, aperitive, but inebriating, and producing fatuity; leaves used as tobacco.

JEEA, *Cannabis Jeea*. Yields the gum resin, cherries.

***PELLITORY OF THE WALL**, *Parietaria*, *Helxine*, *P. officinalis*. Herb cooling, opening, diuretic, pectoral, antiasthmatic.

***HOP**, *Lupulus*, *Humulus lupulus*. Young shoots eaten as a depurative; flowers, *hops*, *humuli strobili*, bitter, inebriating, diuretic, also sedative; used to flavour beer, and the only legal substance for that purpose yellow powder sifted from the strobiles, *lupuline*, *lupulinum*, qualities same as the strobiles, but much stronger; yields an essential oil. Marsh trefoil leaves, wood sage, fringed bog bean, *Geum montanum*, Carolina shrub trefoil, and *Momordica charantia*, are used as substitutes for hops. *Officinal preparations*.—*Tinctura humuli*, *D. L.* *Extractum humuli*, *D. L.*

50. EUPHORBIACEÆ.

The milky juice is caustic, nauseous, and purgative. Embryo, or corculum of the seeds usually violently emetic or purgative.

***FRENCH MERCURY**, *Mercurialis mas et fœmina*, *M. annua*. Herb detersive, purgative, resolvent, and emmenagogue.

***DOG'S MERCURY**, *Cynocrambe*, *Mercurialis perennis*. Herb used instead of French mercury, but has produced fatal accidents.

CHILDREN'S MERCURY, *Phyllon*, *Mercurialis tomentosa*. Herb used by the Moors in female diseases, decoction recommended in hydrophobia.

TRIANGULAR SPURGE, *Euphorbia antiquorum*;—*E. Canariensis*;—*E. officinarum*. Yield gum euphorbium; are cathartic.—*E. heptagona*. Juice used to poison weapons.—*E. edulis*. A kitchen herb.

EUPHORBIA TIRUCALLI. Cathartic, emetic, antisyphilitic;

exhalations affect the eyes.—*E. canescens*;—*E. pilulifera*. Anti-syphilitic, useful in venomous bites.

*GARDEN SPURGE, *Cataputia minor*, *Lathyris*, *Euphorbia lathyris*. Seeds, no. 12 or 14, purge and vomit violently, useful in dropsy; as they yield a fine oil, have been proposed for cultivation for that purpose; the oil purgative in doses of five or six drops: leaves inebriate fish; milk corrodes warts; decoction depilatory.

ROUGH FRUITED SPURGE, *Euphorbia verrucosa*;—Knobbed rooted spurge, *Apios*, *E. apios*. Caustic.—Petty spurge, *Peplus*, *E. peplus*;—Tree spurge, *Tithymalus dendroides*, *E. dendroides*;—Thyme spurge, *Chamæsyce*, *E. chamæsyce*;—Myrtle spurge, *Tithymalus myrsinites*, *E. myrsinites*;—*Wood spurge, *Tithymalus characias*, *E. characias*. All violently cathartic.

*SUN SPURGE, Wartwort, *Euphorbia helioscopia*. Juice applied to warts.—*Purple sea spurge, *Reveillematin*, *E. peplis*. Purgative; milk acid; the eyelids being touched with it, itch so as to hinder sleep.

GREAT SPURGE, *Esula major*, *Euphorbia palustris*. Cathartic.—Lesser spurge, *Esula minor*, *Euphorbia pithyusa*. Milk purgative, corrected by acids.—*Euphorbia Gerardiana*;—Large-flowered spurge, *E. corollata*;—*Ipecacuanha spurge*, *E. ipecacuanha*. Roots emetic, mixed with true *ipecacuanha*, and used for it.

CAIACA, *Creeping hairy spurge*, *Euphorbia hirta*. Dried plant, ʒj, purgative, used in dry belly-ach.

*EUPHORBIA CYPARISSIAS. Juice may be used for scammony; is also emetic.—*Broad-leaved spurge, *E. platyphylla*:—*E. piseatoria*. Used to inebriate fish.—*E. ophthalmica*. Used in blindness.—*Evergreen wood spurge, *Tithymalus sylvaticus lunato flore*, *T. sylvaticus*, *Euphorbia amygdaloides*. Emetic.—Narrow-leaved wood spurge, *Tithymalus amygdaloides angustifolius*, *E. segetalis*;—Sea spurge, *Tithymalus paralias*, *E. paralias*. Are all used as purgatives and for the other uses of spurge.

CICCA RACEMOSA. Berry acid, eatable.

PHYLLANTHUS EMBLICA. Fruit, *myrobalanus emblica*, purgative, acidulous, rather austere; when pickled excites the appetite; root astringent, used in dyeing.

PHYLLANTHUS NIBURI;—*P. urinaria*. Febrifuge, diuretic, astringent.

PHYLLANTHUS VIROSA. Bark astringent, deleterious to fish.

*BOX TREE, *Buxus*, *B. sempervirens*. Wood sudorific.

PALMA CHRISTI, Oil bush, *Ricinus communis*, *R. c. minor*. Seeds, Mexico seeds, castor seeds, *ricini semina*, purgative; yield

oil, by boiling or expression; root, in decoction, diuretic; leaves, with sand, used externally, as an emollient poultice.

RICINUS COMMUNIS MAJOR, *R. viridis*. Seeds, lamp oil seeds. Yield oil.

CROTON TIGLIUM. Seeds, *Molucca grains*, purging nuts, *grana tiglia*, gr. ss with catechu gr. j, very hydragogue, emetic, emmenagogue, corrected by acids, or roasting, yield oil; wood, *lignum pavana*, has the same qualities, but weaker, sudorific in a small dose.

CASCARILLA, *C. cascarilla*. *C. Eleuteria*. *Clutia Eleuteria?* Bark, *Eleuteria bark*, *narcaphte*, *thymiama*, *cortex thuris*, *cascarilla cortex*, imported from Eleutheria, in the Bahama Islands: bitter, very febrifuge, stops vomiting, the dysentery, and menorrhagia, dose gr. xv to 3j; aromatic when burnt, and used to scent tobacco for smoking, but inebriates; dyes a fine black. *Officinal preparations*.—Tinct. and infus. *Cascarillæ*, *D. I.*

CASCARILLA BALSAMIFERUM;—*C. aromaticum*, and some other species, are used to aromatise distilled liqueurs in the West Indies.—*C. lineare*. A specific in cholic.—*C. Moluccanum*. Seeds, having the corculum taken out, esculent.—*C. humile*. Used in baths for nervous weaknesses.

TALLOW TREE OF CHINA, *Cascarilla sebiferum*, *Sapium sebiferum*. Seeds yield tallow.—*C. lacciferum*. Yields Ceylon lac.

***URNSOL**, *Heliotropium*, *Cascarilla tinctorium*. Juice blue, easily changed red by acids, and green by alkalies; used to dye rags and paper.—*C. tricuspidatum*. Juice blue, resembles turnsol.

BARBADOES NUT TREE, *Jatropha curcas*. Seeds, *common physic nut*, very violently purgative and emetic, no. 2 or 3, carefully peeled; yield an oil: shrub yields, on incision, a lactescent and caustic juice which dyes linen black; leaves rubefacient.—*J. glauca*. Seeds pressed for their oil.

JATROPHA GLANDULOSA;—*Wild cassava*, *J. gossipifolia*. Young leaves, no. 6, boiled as greens, a powerful purge; no. 15—20, in decoction, with some castor oil, used as a clyster in dry belly-ach; the powder of the gland contained in the stem is an errhine.

FRENCH PHYSIC NUT, *Jatropha multifida*. Seed, *avellana purgatrix*, no. 1, a violent purge, yield oil.

BITTER CASSAVA, *Jatropha manihot*. Root full of an acrid, poisonous, milky juice, separable by expression, or corrected by roasting, thus yielding a nutritive farina; also by boiling the juice, which is used as a sauce, and made into soy.

SWEET CASSAVA, *Jatropha janipha*. Roots, *meal roots*, soaked in water, dried and powdered are nutritive.—*Hyæna poison*, *J. globosa*, *Hyænanche globosa*, *Toxicodendron Capense*. Fruit in

powder used to poison hyænas.—*Elastic gum tree, J. elastica, Siphonia elastica, Hæbea Galanensis.* Yields, by incision, elastic gum.—*Vernicia montana.* Kernels yield oil.

EXCÆCARIA AGALLOCHA. Wood, *aloes wood, eagle wood, bois d'aloës, lignum aloës, lignum aquilinum,* cordial, useful in rheumatism and gout, odoriferous; exhalation so acrid as to attack the eyes.

POONAG, Rottleria tinctoria. The outside of the capsules yields a yellow dye, wassunta gunda.—*Sapium aucuparium;—Hippomane biglandulosa.* Yield birdlime.

MANCHINEAL, Hippomane mancinella. Fruit beautiful, but so caustic as to corrode the mouth and occasion vomiting; juice of the tree used to poison weapons.—*Ficarium Cochinchinense.* Fruit edible.

51. ARISTOLOCHIÆ.

The plants of this order are emmenagogue.

LONG-ROOTED BIRTH-WORT, Aristolochia longa;—Round birth-wort, A. rotunda. Roots taken to ʒjss, hot, odorous, powerfully incisive.

***UPRIGHT BIRTH-WORT, Aristolochia clematitis;—A. pistolochia.** Roots emmenagogue.

JAMAICA CONTRAYERVA, Aristolochia odorata. Root, in infusion, diuretic, purgative, stomachic, and emmenagogue.

VIRGINIA SNAKE ROOT, Serpentaria Virginiana, Aristolochia serpentaria. Root, *serpentaria radix*, antiseptic, heating, alexiterial, diaphoretic; an active medicine, given in doses of gr. x to ʒss of the powder, or an infusion of ʒj, every four hours, against the bites of snakes and canine madness. Imported from America, in bales of 200 to 500 lbs.; frequently mixed with the roots of *Collinsonia præcox.* The roots of *Cyperus articulatus*, used as substitutes. *Officinal preparation.*—Tinct. in all the colleges.

CANADA SNAKE ROOT, Asarum Canadense. Root, *Asarum, P. U. S.;—Black snake weed, Serpentaria nigra, Asarum Virginianum.* Roots are mixed with those of Virginia snake root, and have the same qualities.

HYPOCISTUS, Asarum hypocistus, Cytinus hypocistus. Very astringent.

***ASARABACCA, Asarum vulgare, A. Europæum.** Root a drastic purge, working, in doses of ʒj to ʒj, if finely powdered, upwards; but if coarsely powdered, downwards; it is also used as a sternutatory, from gr. j to gr. iij; leaves, *asari folia*, milder, and were the usual emetic before the introduction of ipecacuanha, no. 6 to 9 in whey; they are also applied to wounds.

52. SANTALACEÆ.

? SANDAL TREE OF TECAMEZ. Yields a rosin; leaves rubbed between the hands, and applied to the temples, used to take off the headach occasioned by severe drinking.

SANDAL TREE, *Sirium myrtifolium*. The outside of the wood, *white sanders, santalum album*; the heart of the tree, *yellow sanders, santalum citrinum*; aromatic, slightly bitter and sweetish, cordial, cephalic.

*THESIUM LINOPHYLLUM. Astringent.

53. ELÆAGNEÆ.

*SALLOW THORN, *Sea buckthorn, Hippophae rhamnoides*. Leaves purgative; berries, made into a sauce.

*NARROW LEAVED WILD OLIVE, *Elæagnus angustifolia*. Vermifuge.

54. THYMELÆÆ.

Plants of this order are caustic, particularly their bark.

*EVERGREEN SPURGE LAUREL, *Laureola, Chamædaphne, Daphne Laureola*. Usually sold for mezereon.

*MEZEREON, *Spurge olive, Chamælæa, Laureola femina, Meze-reum, Daphne Mezereum*. Bark, *mezerei cortex*. *Officinal pre-parations*.—Decoctum mezerei, *D. E.* Decoct. sarsap. comp. *D. E. L.*

ROCK ROSE, *Cneorum niger, Daphne cneorum*;—**Spurge flax, Thymelæa, D. Gnidium*. Have all similar qualities, but the latter seems the most efficacious. Bark of all these serves as a vesica-tory, and ulcerates the parts to which it is applied; it has been chewed in palsy of the tongue with success; taken internally, in doses of only a few grains, it is a dangerous drastic, working both upwards and downwards. Berries, *grana Gnidia*, equally drastic, added to vinegar to give it apparent strength; herb used to dye yellow. Both the bark and berries are steeped in vinegar, and dried to render them milder.

HEATH SPURGE, *Sanamunda, Daphne tarton-rairi*. Leaves caustic.

POET'S ROSEMARY, *Cassia veterum spuria, Osyris, O. alba*. Astringent.

PASSERINA TINCTORIA. Used to dye yellow.

LEATHER-WOOD, *Dircaea palustris*. Bark acrid, emetic, gr. v to x, externally produces blisters.

55. PROTEACEÆ.

GUENVINA AVELLANA, *Quadria heterophylla*. Kernels esculent, very pleasant.

PERSOONIA LAURINA, *P. salicina*. Fruit esculent.—*Persoonia lanceolata*, *Linkia laevis*;—*P. linearis*;—*P. hirsuta*. Fruits esculent.

PERSOONIA GUAREOIDES. Bark used for the Peruvian bark; nuts yield oil.

56. MYRISTICÆ.

NUTMEG TREE, *Myristica officinalis*, *M. moschata*. The kernel of the fruit, *nutmeg*, *nux moschata*, *myristicæ nuclei*, *myristicæ moschata fructûs nucleus*. Membrane enclosing the seed, *mace*, *macis*. Are stomachic, cephalic, uterine, and cordial; in an over dose, say ʒij, the nutmeg is soporific and produces delirium. By distillation they yield an essential oil, and by expression a concrete oil. *Official preparations*.—*Spiritus nucis moschatae*, *D. L. E.* Spirit. ammon. arom., *D. Spt. armoraciæ comp.*, *D. Spt. lavand. comp.*, *D. L. E.* *Confectio aromatica*, *D. L.* *Electuarium catechu*, *E.*

MYRISTICA SEBIFERA, *Virola sebifera*;—*Barabee*. Kernels pressed for their oil.

57. LAURINÆ.

Very aromatic, fruits or berries oily and odoriferous.

*BAY TREE, *Laurus*, *L. nobilis*. Berries, *lauri bacca*, ʒss to ʒjss, very heating and emmenagogue; yield oil by decoction or by the press. Leaves, *lauri folia*, aromatic: prepared by soaking in vinegar and drying. *Official preparations of the berries*.—*Conserva rutæ*, *D. L.* *Emplastrum cumini*, *L.*

AVOCADO PEAR TREE, *Laurus persea*;—*L. glauca*. Fruits yield oil.

CAMPHIRE TREE, *Laurus camphora*. Roots yield camphire by distillation.

CINNAMON TREE, *Laurus cinnamomum*. Bark of the first quality, breaking shivery, with a warm flavour, *cinnamon*, *cannelle de Ceylon*, *cinnamomum*, *cinnamomi cortex*, *lauri cinnamomi cortex*. Imported from Ceylon, in bales of about 92lb.:—*Chinese cinnamon*, *Cannelle de China*, *cinnamomum e China*. In smaller bundles, often only a single quill, dark coloured, slightly aromatic, yields much oil, contains starch;—bark of an inferior quality, breaking short, with a slimy mucilaginous taste, *cassia*, *cassia lignea*, *cassia lignæ cortex*, *lauri cassiæ cortex*, *cassiæ cortex*. *Cannelle de Cayenne*, *cinnamomum Cayennensis*. Pale, with a very slimy taste;—bark of the trunk of old wild trees, *Bastard cassia*, *pepper*

bark? *cannelle matte?* *cassia cinnamomea*, *cinnamomum Indicum*;—twigs with the bark left on, *xylocasia*, *cassia lignea* of the ancients;—dried leaves, *cassia leaves*, *folium Indicum*, *folium Intum*, *malabathrum*; oblong, ovate, shining, with three ribs;—dried receptacle of the seeds, *cassia buds*, *cabob china*, *baccæ cassiæ*, *flores cassiæ*, *cassiæ lignæ flores nondum expliciti*, *lauri cassiæ flos nondum explicitus*; imported in chests of different sizes, mostly from China. All these are stomachic, tonic, and cordial, in doses of gr. v to ʒj, and are much used in cookery as spices; the bark that is not fit for sale, even under the name of cassia, is distilled for its oil. *Officinal preparations*, very numerous: the principal are—*Aqua cinnam.*, *L. E. D.* *Spirit. cinn.* *L. E. D.* *Spir. lavand. comp.* *L. E. D.* *Tinct. card. comp.* *L. D.* *Tinct. cinn.* *L. E. D.* *Vinum opii.* *L. D.* *Pulv. cretæ comp.* *L. E. D.* *Confectio aromatica*, *L. D.*

WILD CINNAMON TREE, *Laurus cassia*, *L. myrrha*. Leaves bitter, narrow, pointed, elliptical, sold for *folium Indicum*.—*L. Japonica*. Leaves sold for *folium Indicum*, but very different in taste.

SASSAFRAS TREE, *Laurus sassafras*. Root, *sassafras radix*; wood, *cinnamon wood*, *sassafras lignum*; imported from the West Indies in logs: sudorific, heating, and drying; yield essential oil. *Officinal preparations*.—*Oleum sassafras*, *D. E. L.* *Decoct. guaiaci comp.* *D. E.* *Decoct. sarsap. comp.* *D. L.*

LAURUS BENZOIN. Bark used for cinnamon.—*L. culilaban*. Bark, *culilawan*, *cortex caryophylloides*, brownish red, flat, thick, odour strong between clove bark and sassafras; leaves resemble those of *raventsara*: both are heating, stimulant, and stomachic.

ISLE OF FRANCE CINNAMON, *Laurus capularis*;—*Peruvian cinnamon*, *L. Quixos*. Barks aromatic, astringent.

LAURUS PARVIFOLIA;—*L. globosa*;—*L. foetens*;—*L. caustica*. Barks contain an acrid principle.

LAURASTER AMBOYNSIS, *Laurus*, *Tetranthera pichurim*. Seeds, *sassafras nuts*, *Brazilian bean*, *faba pichurim*, stomachic, astringent, anodyne, used in diarrhœa and dysentery; yield oil.

JACK IN A BOX. *Hernandia sonora*. Fruit astringent; seeds oily, purgative.—*American myrobalans*, *H. ovigera*. Fruit astringent.

LITSEA SEBIFERA. *Sebifera glutinosa*. Berries yield oil.—*Litsæa cubeba*, *Laurus piperita*. Berries carminative.

CHLOBOMYRON VERTICILLATUM. Yields by incision balsamum viride.

MIOSCHILOS ORLONGA. Leaves used for those of senna.

PLEGONHIZA ASTRINGENS. Root vulnerary, astringent.

58. POLYGONÆ.

Herbs acid or astringent, containing oxalic acid; contain also a red colouring matter, and may be used in tanning; leaves may be made to yield woad.

***RHEUM PALMATUM.** Roots, *Turkey rhubarb, Russian rhubarb, rhubarbe de Bucharie, rhabarbarum verum, rhabarbarum Turcicum, rhabarbarum Rossicum, rhei radix.* In oblong pieces, roundish or flattened, broad, with a large hole through them. *East Indian rhubarb, rhubarbe de China, rhabarbarum Indicum, rhabarbarum e Chind.* In large pieces, outside yellowish, inside marbled. The difference is supposed to arise from the time of gathering.—*Dutch trimmed rhubarb.*—*British rhubarb, rhubarbe de France.* In small short sticks, wrinkled lengthways, scarcely crackling between the teeth as containing much less oxalate of lime than the foreign rhubarb, as also of the red colouring material. Rhubarb is purgative and astringent, stomachic, vermifuge, gr. x to ʒij; used as a tooth-powder, and in dyeing yellow. *Official preparations:* the principal are Infus. rhei, *L. D.* Tinct. rhei, *L. E.* Extractum rhei, *D.* Pil. rhei comp. *E.*

RHEUM UNDULATUM;—*R. compactum;*—*R. hybridum.* Roots are supposed to be mixed with those of *R. palmatum.*—*Malabar rhubarb.* Plant not determined, root coarse, acrid, and very nauseous.

***RHEUM RHAPONTICUM.** Root, *rhapontic, rhaponticum,* used as rhubarb, which when carefully dried it resembles, but is much lighter, bitterer, and has not so strong a smell; radical leaf stalks peeled used in pies instead of gooseberries.

***BLOOD WORT,** *Bloody dock, Lapathum sanguineum, Rumex sanguineus;*—*Garden patience, Patientia, Lapathum sativum, Rumex patientia;*—*Dock, Great water dock, Hydrolapathum, R. aquaticus, R. hydrolapathum;*—*Water dock, R. Britannicus, R. xanthorrhiza;*—*Sharp-pointed dock, L. acutum, Oxylapathum, R. acutus;*—*Monks' rhubarb, Blunt-leaved dock, Rhabarbarum monachorum, Rumex obtusifolius;*—*Bastard monks' rhubarb, Hippolapathum, R. alpinus.* Roots have the same qualities as foreign rhubarb, but the dose must be nearly doubled: used in powders, tinctures, and infusions, instead of rhubarb; are eaten whilst young as potherbs, and used in dyeing.

***CURLED DOCK,** *Lapathum crispum, Rumex crispus.* Seeds anti-dysenteric; roots bruised and made into an ointment cure the itch.

***SORREL,** *Acetosa, Rumex acetosa.* Leaves, *acetosæ folia.* **French Sorrel, Acetosa Romana, R. scutatus;*—**Sheep's sorrel, A.*

arvensis, *Acetosella*, *R. acetosella*. Root cooling purges; leaves contain much oxalate of potash, very cooling, antiscorbutic, eaten in salads; make excellent whey by boiling a few in milk.

SEA-SIDE GRAPE, *Coccoloba uvifera*. Fruit very astringent, yields Jamaica kino.—*Common knot grass, *Centinodeia*, *Polygonum*, *P. aviculare*. Herb vulnerary, astringent; seeds nauseously aromatic, emetic, sometimes purgative.

*BUCK WHEAT, *Fagopyrum*, *Polygonum fagopyrum*. Seeds nutritive, fattening, well-flavoured, made into bread, yield an oil.

*BLACK BIND-WEED, *Volubilis nigra*, *Polygonum convolvulus*. Seeds equally nutritive as buck wheat, and much easier to cultivate.

*BISTORT, *Snake weed*, *Bistorta*, *Polygonum bistorta*. Root, *bistortæ radix*, very astringent, dose ℥j to ʒj; tans leather very well; young shoots eaten as greens.

*DEAD ARSE-SMART, *Persicaria*, *Polygonum persicaria*;—**Arse smart*, *Persicaria urens*, *Polygonum hydropiper*. Vulnerary, detersive, and diuretic; dye wool yellow; juice acidulous, acrid, sharp.

59. ATRIPLICES.

*SPINACH, *Spinachia oleracea*. Leaves emollient, opening, boiled as greens.

*ROOT OF SCARCITY, *Mangel wurzel*, *Beta hybrida*. Root red outside, white inside, very nutritive; yields sugar; leaves eaten as spinage.

*WHITE BEET, *Beta vulgaris alba*. Root yields sugar; leaves eaten as spinage.

*RED BEET, *Beta vulgaris rubra*. Root red, nutritive; yields sugar.

*STRAWBERRY SPINACH, *Blitum capitatum*. Laxative.

*COMMON SEA FURSLANE, *Portulaca marina*, *Atriplex portulacoides*. Leaves and shoots pickled used to procure an appetite, warming; also cosmetic.

*ORACHE, *Atriplex hortensis*. Emollient; seeds emetic.—*Sea purslane*, *A. halimus*.

*SEA ORACHE, *Atriplex littoralis*. Leaves and young shoots pickled, and eaten in the manner of samphire.

*NARROW-LEAVED WILD ORACHE, *Atriplex angustifolia*, *A. patula*. Seeds emetic, sudorific, antidysenteric; a substitute for ipecacuanha.

BASELLA CORDIFOLIA;—*B. rubra*. Esculent.

*ENGLISH MERCURY, *Allgood*, *Mercurialis*, *Tota bona*, *Cheno-*

podium bonus Henricus;—*Goose foot, *Pes anserinus*, *C. murale*. Herb laxative, eaten as spinach, the shoots as asparagus.

*WILD ORACHE, *Atriplex sylvestris*, *Chenopodium viride*. Herb laxative, discusses whitlows; seeds used in the jaundice.

QUINOA, *Chenopodium Quinoa*. Used as a pot herb; seeds a substitute for rice.

*STINKING ORACHE, *Atriplex olida*, *Chenopodium vulvaria*;—*Oak of Jerusalem, *Botrys*, *Ambrosia*, *Chenopodium botrys*. Stinking plants, used, beat up with sugar, as emmenagogues, anti-hysterics, and vermifuges; their decoction is used externally in eruptions.

WORM GOOSE-FOOT, *Worm seed*, *Chenopodium*, P. U. S. *C. anthelminticum*. Expressed juice vermifuge.

MEXICAN TEA, *Chenopodium ambrosioides*. Stomachic, anti-asthmatic, used as tea.

HERBE AUX CHARPENTIERES, *Rivina humilis*. Pectoral.

STINKING GROUND PINE, *Camphorata*, *Camphorosma Monspe-liacum*. Nervine, cephalic, antarthritic.

*GLASS-WORT, *Saltwort*, *Kali*, *Salsola kali*. Emmenagogue, diuretic, and hydragogue; yields barilla by being burned.

GLASS-WORT, *Kali*, *Salsola soda*;—*Alicant glass-wort*, *Kali Hispanicum*, *S. sativa*;—*S. Arabica*;—*S. aphylla*;—*S. nudiflora*;—*S. elata*;—*S. Indica*;—*S. tragus*;—*Anabasis aphylla*;—**Saltwort*, *Salicornia fructicosa*. All yield barilla by burning.

*MARSH SAMPHIRE, *Salsola herbacea*. Pickled is eaten as samphire.

? SCARLET MUSHROOM, *Cynomorium coccineum*. Styptic, ðj in wine.

*AMERICAN POKE-WEED, *Poke*, *Jucato calleloe*, *Phytolacca decandra*. Root, *phytolacca*, P. U. S. emetic, infusing 1 oz. in a pint of wine, and taking two spoonfuls; juice red, a very common domestic purge in America; leaves bruised, very deterrent, of great use in cancerous cases as a poultice; young shoots eaten as asparagus; berries yield a red dye, but which does not stand; used to colour wine.

60: AMARANTHACEÆ.

*UPRIGHT BLITE, *All seed*, *Blitum minus*, *Amaranthus blitum*. Refrigerant, slightly astringent; used as a potherb.

*FLOWER GENTLE, *Amaranthus*, *Flos amoris*, *A. caudatus*. Flowers slightly astringent.

*GREAT WHITE BLITE, *Blitum album*, *Amaranthus viridis*;—*Red blite, *Blitum rubrum*, *A. viridis*;—*A. oleraceus*;—*A. farinaceus*. Used as potherbs.

ACHEYANTHES REPENS, *Gomphrena polygonoides*. Root and flower narcotic.—*Amaranthus obtusifolia*. Diuretic.

61. NYCTAGINEÆ.

***MARVEL OF PERU**, *Mirabilis jalapa*, *Nyctago jalapa*;—*Nyctago longiflora*, *M. longiflora*;—*N. dichotoma*, *M. dichotoma*;—*Herba purgativa*, *Boerhaavia tuberosa*. Roots purgative.

62. PLANTAGINEÆ.

***PLANTAIN**, *Waybread*, *Plantago major*;—**Lamb's lettuce*, *Hoary plantain*, *P. media*;—**Rib-wort*, *Rib grass*, *P. lanceolata*. Roots ʒij to vj, once a day, useful in vernal agues; leaves astringent, vulnerary, used whole as a dressing for wounds; juice of the leaves used as a collyrium, and internally, ʒj to ʒij in fevers.

***BUCKS-HORN PLANTAIN**, *Cornu cervinum*, *Plantago coronopus*. Roots and leaves beaten up with bay salt, are applied as a poultice to the wrists in agues; a decoction of the leaves is given in disorders of the eyes.

FLEA-WORT, *Psyllum pulicaria*, *Plantago psyllium*, *P. arenaria*. Seeds mucilaginous, purgative.—*Spanish plantain*, *Holostium*, *P. albicana*. Herb vulnerary, used in herniæ.

63. PLUMBAGINEÆ.

PLUMBAGO ZEYLANICA;—*P. rosea*. Used as vesicatories.

TOOTH-WORT, *Dentaria*, *Dentillaria*, *Plumbago Europæa*. Caustic, corrosive; used by beggars to produce ulcers, in order to excite pity; and in tooth-ache as a masticatory; may be used for ipecacuanha.—*Herbe au diable*, *P. scandens*. Used in the itch.

64. STATICEÆ.

***RED BEHEN**, *Sea lavender*, *Behen rubrum*, *Limonium maritimum*, *Statice limonium*. Root astringent, used in loosenesses, &c.; seeds also astringent. Druggists sell, under this name, round transverse slices of a root resembling jalap, of a reddish brown colour.

MARSH ROSEMARY, *Statice Caroliniana*. Root, *statice*, P. U. S.; used in dysentery.

65. GLOBULARIÆ.

MONTPELIER TURBITH, *Globularia alypum*. Root purgative; leaves used for senna.

66. LYSIMACHIÆ.

***PIMPERNEL**, *Anagallis terrestris mas*, *A. arvensis*. Used in mania and against hydrophobia; flower used in epilepsy, gr. xx, quater in die.—**Blue-flowered pimpernel*, *Anagallis fœmina*, *A. cœrulea*. Is of similar qualities.

*PRIMROSE, *Primula veris vulgaris*, *P. v. acaulis*;—*Ox lip, Great cowslips, *P. v. elatior*. Roots emetic; herbs anodyne.

YELLOW BEARS-EAR, *Auricula ursi*, *Primula auricula*. Herb vulnerary and expectorant.

*COWSLIPS, *Pagils*, *P. v. officinalis*, *Paralysis vulgaris*. Flowers used to flavour wine, and render it narcotic.

BEARS-EAR SANICLE, *Cortusa Matthioli*, Cephalic, anodyne, expectorant.

*YELLOW LOOSE STRIFE, *Willow herb*, *Lysimachia vulgaris*;—*Money-wort, *Herb two-pence*, *Nummularia*, *Lysimachia nummularia*. Astringent.

ANNUAL NAVEL-WORT. *Androsace maxima*. Diuretic.

*BUTTER WORT, *Yorkshire sanicle*, *Pinguicula vulgaris*. Leaves heal wounds and chaps of the skin; made into a purging syrup; used to thicken milk, turn it sour, and make it keep for any length of time.

*WATER PIMPERNEL, *Samolus valerandi*. Has similar qualities.

*SOW BREAD, *Artanita*, *Cyclamen*, *C. Europæum*;—*Soldanella Alpina*. Roots drastic, emmenagogue, errhine; leaves bruised and made into a pessary are emmenagogue, and cause abortion; an ointment is made from it, which, when rubbed on the navel, purges and kills worms.

67. ACANTHACEÆ.

WILD BRANK URSINE, *Acanthus sylvestris*, *A. spinosus*. Herb diuretic, astringent.

BEARS BREECH, *Branca ursina*, *Acanthus*, *A. mollis*. Leaves diuretic, externally maturative; dye a fine yellow.

MALABAR NUT TREE, *Justicia adhatoda*. Leaves purgative.

CREATA, *Justicia paniculata*. Root and herb externally bitter, stomachic.

BALSAM, *Justicia pectoralis*. Vulnerary, resolvent; a syrup is made from it, and used in diseases of the chest.

SARCOCOLLA SHRUB, *Penæa sarcocolla*;—*P. mucronata*. Said to yield gum sarcocol.

RUELLIA TUBEROSA. Used instead of ipecacuanha.

BARLERIA LONGIFOLIA. Root diuretic.

68. PYRENACEÆ.

AGNUS CASTUS, *Vitex agnus castus*. Flowering tops cooling, drying; and looked upon as anaphrodisiac, whence they were used to strew the beds of the Vestal virgins and Christian nuns.

TECTONIA GRANDIS. Leaves used against the thrush and dropsy, and also to purify water.

*VERVAIN, *Verbena*, *V. officinalis*. Febrifuge, vulnerary; used

externally as a rubefacient in rheumatism and other pains of the joints. Root worn round the neck cures scrofulous and scorbutic affections.—*Jamaica vervain, Verbena Jamaicensis*. Juice, cochl. maj. j. to ij, cathartic, deobstruent, emmenagogue.—*Volkameria inermis, Clerodendrum inerme*;—*Avicennia resinifera, A. tomentosa*. Exude rosins.

69. LABIATÆ.

Aromatic and heating.

SAGE OF VIRTUE, *Small garden sage, Salvia virtutis, S. hortensis minor, S. officinalis*. Heating, sudorific, used in palsy and trembling of the nerves; also cordial, stomachic, stops night sweats, and the flow of milk after weaning: galls, *baisonge*, eaten.

GREAT GARDEN SAGE, *Salvia hortensis major, S. officinalis*.—*Clary, *Sclarea, Salvia sclarea*. Added to wine to give the flavour of muscadel.—*S. Indica*. Herb put in Hindustan into the country beer to improve its flavour.

PURPLE-TOP CLARY, *Horminum, Salvia horminum*.—*Sage of Crete, S. Cretica*;—*Ethiopian sage, Salvia Æthiopica*. Excite the nervous system, produce a slight intoxication, used in disorders of the eyes, and are aphrodisiac.

WILD CLARY, *Oculus Christi, Salvia verbenaca*;—*Wild clary, Horminum sylvestre, S. verticillata*. Seeds put in the eye become mucilaginous, and thus facilitate the extraction of anything that has got into it.

CANCER WEED, *Salvia lyrata*. Root leaves bruised used to destroy warts, and in cancerous cases.

*ROSEMARY, *Rosmarinus, R. officinalis*. Flowers, *anthos, rorismarini cacumina*, cephalic, nervine, cordial, heating, emmenagogue, and strengthening: infusion promotes the growth of the hair, and gives it a healthy appearance.

CANADIAN SNAKE-ROOT, *Collinsonia præcox*. Root used for Virginia snake-root.—*LAVANDER, *Lavandula angustifolia, L. spica*:—*Spike lavender, L. latifolia, Spica vulgaris, L. spica*. Flowering tops, *lavandulæ flores*, very odoriferous, yield essential oil; are nervine, antispasmodic, and cephalic. *French lavender, Stœchas Arabica, L. stœchas*. Has the same qualities, and is also diuretic.

CURLIED-LEAVED MINT, *Mentha crispa*;—**Bergamot mint, Mentha odorata*;—**Pepper mint, M. piperis sapore, M. piperita*;—**Horse mint, Menthastrum, Mentha sylvestris*;—**Water mint, Sisymbrium sylvestre, M. aquatica*;—**Penny royal, Pulegium, P. vulgare, M. pulegium*;—**Water calamint, Calamintha aquatica, M. arvensis*;—**Spear mint, M. viridis, M. sativa*;—**Bushy red mint, M. balsamina, M. gentilis*;—**Round-leaved horse mint, Mentha sylvestris, M. rotundifolia*;—**Harts penny royal, Pulegium*

cervinum, *M. cervina*. Are all stomachic, promoting digestion, diuretic, and approved emmenagogues, either in powder or infusion; they all yield, on distillation, oil.

***CEYLONIAN PLANT**, *Ear wort*, *Marlow*, *Auricularia*, *Mentha sylvestris*, *M. villosa*. Used for deafness.

***BALM**, *Melissa*, *M. officinalis*;—**Common Calamint*, *Calamintha vulgaris*, *C. montana*, *Mentha calamintha*;—**Mountain calamint*, *Calamintha magno flore*, *Melissa grandiflora*;—**Lesser calamint*, *C. odore pulegii*, *Mentha nepeta*. Cephalic; used in nervous and hysteric cases.

***BASTARD BALM**, *Melissa Fuchsii*, *Melittis melissophyllum*. Diuretic, opening.

***SWEET BASIL**, *Basilicum*, *Ocimum basilicum*. Strong-scented, emmenagogue; gave the peculiar flavour to the original Fetterlane sausages.

JAVA POTATOES, *Ocimum tuberosum*. Tubers eaten.—*Toolsie tea*, *O. album*. Leaves used as tea.

SUMMER SAVORY, *Satureja hortensis*. More acrid, and hotter than sweet basil, dyes a yellow colour.

WINTER SAVORY, *Satureja durior*, *S. frutescens*, *S. montana*. Used as spice.

***ROCK SAVORY**, *Satureja spicata*, *S. Juliani*. Herb agrees with other savories.

TRUE THRYMBA, *Thymbra vera*, *S. thymbra*. Herb emmenagogue, used with honey in coughs.

***TRUE THYME**, *Thymum verum*, *Satureja capitata*;—**Mountain hyssop*, *Thymbra spicata*. Vermifuge.

***HYSSOP**, *Hyssopus*, *H. officinalis*. Leaves emmenagogue, pectoral, used as tea; soaked in water or wine, and applied as a cataplasm, used as a discutient for black eyes and other contusions.

***THYME**, *Thymus*, *T. vulgaris*;—**Mother of thyme*, *Wila thyme*, *Lemon thyme*, *Serpyllum*, *T. serpyllum*;—**Herb mastich*, *Marum*, *T. mastichum*;—**Wild thyme*, *T. sylvestris*, *T. zygis*;—**Wild basil*, *Poly mountain*, *Acinos*, *T. acinos*;—**Pot marjoram*, *Majorana oleracea*, *Origanum onites*;—**Bastard marjoram*, *Origanum Heracleoticum*;—**Winter marjoram*, *Origanum*, *O. vulgare* (the tops of which dye purple);—**Sweet marjoram*, *Majorana*, *Amaracus*, *Sampsucus*, *Origanum majorana*;—**Dittany of Crete*, *Dictamnus Creticus*, *O. dictamnus*;—**Ground ivy*, *Hedera terrestris*, *Chamæcissus*, *Glechoma hederacea*;—**Cat mint*, *Nepeta*, *Mentha cataria*, *N. cataria* (highly alluring to cats);—**Wood betony*, *Betonica sylvestris*, *B. vulgaris*, *B. officinalis*;—**Dead nettle*, *White archangel*, *Urtica mortua*, *Lamium album*;—**Great wild basil*, *Ocimum sylvestre*, *Clinopodium vulgare*;—**Purple archangel*, *Lamium orvala*;—**Red archangel*, *L. purpureum*. All of these have analogous qualities, being heating and strengthening; made

into tea with honey, they are diaphoretic, discussive, expectorant; some are slightly astringent; ground ivy is the most commonly used; dittany of Crete was a celebrated vulnerary and astringent among the old physicians: several are used as spice.

*SPOTTED ARCHANGEL, *Milzadella*, *Urtica lactea*, *Lamium maculatum*. Herb esteemed specific in scrofula and fluor albus.

JAMAICA WILD HOPS, *Clinopodium rugosum*. Used as a gargle with honey and alum.

MOLDAVIAN MINT, *Dracocephalum Moldavica*. Similar in quality to mint.

*HOREHOUND, *Prassium*, *Marrubium*, *M. album*, *M. vulgare*. Pectoral, used in coughs and colds, ʒj of the leaves powdered, or ʒij of the expressed juice, or Mss. infused for tea.

BASTARD DITTANY, *Marrubium pseudodictamnus*; — Galen's mad wort, *Alyssum Galeni*, *M. alyssum*; — *Black horehound, *M. nigrum*, *Ballote nigrum*; — Jamaica spike-nard, *Ballote suaveolens* (infusion used in dropsy and gravel); — *Clowns all-heal, *Panax coloni*, *Stachys palustris*; — *Stinking dead-nettle, *S. sylvatica*; — *Smooth-leaved iron-wort, *Sideritis arvensis latifolia glabra*, *Stachys arvensis*; — *Common hemp-nettle, Bastard hemp, *Galeopsis tetrahit* (the seeds of which yield oil); — *Narrow-leaf all-heal, *G. ladanum*; — *Yellow archangel, *Lamium luteum*, *G. galeobdolon*; — *Water horehound, *Marrubium aquaticum*, *Lycopus Europæus*; — *Mother wort, *Cardiaca*, *Leonurus cardiaca*; — Bastard horehound, *L. marrubiastrum*; — Sage-leaf mullein, *Phlomis lychnitis*. All of these are strong-scented plants, more or less disagreeable, emmenagogue, antihysterical, antiepileptic, expectorant, and, for the most part, vermifuge; externally they are vulnerary.

VIRGINIA PENNY ROYAL, *Cunila Mariana*, *Ziziphora Mariana*. Leaves, *cunila*, P. U. S., diaphoretic, distilled for their oil.

MONARDA PUNCTATA. Root, *monarda*, P. U. S., emmenagogue.

OSWEGO TEA, *Monarda Kalmiana*. Leaves used as those of tea.

*GERMANDER, *Scordium*, *Teucrium scordium*; — *Wood sage, *scorodonia*, *Salvia agrestis*, *T. scorodonia*. Used instead of hops.

JAGGED GERMANDER, *Teucrium botrys*; — Syrian herb-mastich, *Cat thyme*, *Marum Syriacum*, *T. marum*. Have similar qualities: this last plant is emmenagogue, ʒj to ʒss; cats are very fond of it.

*CREEPING GERMANDER, *Chamædrys*, *Trissago*, *Teucrium chamædrys*; — Ground pine, *Chamæpitys*, *Iva arthritica*, *Teucrium chamæpitys*. Bitter, tonic, febrifuge.

POLY-MOUNTAIN, *Polium montanum*, *Teucrium capitatum*. Lavender-leaf poly, *T. montanum*; — Cretan poly-mountain, *Polium*

Creticum, *T. Creticum*. Have all the same alexiterial heating qualities.

YELLOW POLY-MOUNTAIN, *P. m. flavum*, *Teucrium polium*; — White poly-mountain, *P. m. album*, *Teucrium teuthrion*; — Tree germander, *Teucrium*, *T. flavum*. Leaves used in diseases of the liver and spleen.

BASE HOREHOUND, *Stachys*, *Sideritis Syriaca*. Leaves acrid, emmenagogue, fetid.

IRON-WORT, *Sideritis*, *S. hirsuta*. Herb cures wounds by the first intention.

GERMAN IRON-WORT, *Sideritis flore luteolo*, *S. scordioides*; — Mountain iron-wort, *S. montana*; — *Common bugle, *Bugula*, *Ajuga reptans*; — *Mountain bugle, *Ajuga pyramidalis*; — *Self-heal, *Prunella*, *P. vulgaris*; — *Hooded willow-herb, *Lysimachia galericulata*, *Scutellaria galericulata*. Bitter, astringent, nearly inodorous; the English ones are substituted for bark.

70. PEDICULAREÆ.

*EYE BRIGHT, *Euphrasia*, *Euphrasia officinalis*. Cephalic, ophthalmic.

*SPEEDWELL, *Fluellin*, *Veronica mas*, *Betonica Pauli*, *V. officinalis*. Leaves slightly astringent, bitter; substituted for tea, but is more astringent and less grateful.

*SMALLEST FLUELLIN, *Veronica spicata*; — Mountain mad-wort, *V. montana*; Speed-well chickweed, *V. arvensis*. Vulnerary, incisive, diaphoretic, antiphthisic.

*WILD GERMANDER, *Chamædrys sylvestris*, *Veronica Chamædrys*. Leaves a better substitute for tea than those of speed-well.

VIRGINIA SPEEDWELL, *Veronica Virginica*. Root, *veronica*, P. U. S., astringent.

*BROOK LIME, *Anagallis aquatica*, *Beccabunga*, *Veronica beccabunga*. Leaves, when fresh, diuretic, antiscorbutic, eaten as salad; juice, in a full dose, an easy purge.

*RED RATTLE, *Louse-wort*, *Pedicularis palustris*. Nauseous, acrid; its juice, or a decoction, used externally in old ulcers; kills lice, yet said to breed lice in cattle that feed on it.

YELLOW RATTLE, *Cock's comb*, *Crista galli*, *Rhinanthus crista galli*. Is used to kill lice. — *Cow wheat, *Triticum vaccinum*, *Melampyrum arvense*; — *Wild cow-wheat, *Cratæogonum*, *M. pratense*. Seeds aphrodisiac; herb fattens cows.

71. OROBANCHIDEÆ.

*TOOTH-WORT, *Squamaria*, *Lathræa squamaria*. Herb conso-

I. VEGETABLES.—SOLANÆÆ.

***BROCK RAFE**, *Orobanchè, O. major*. Herb in powder gives relief in the colic; used in hypochondriasis, externally resolvent.

72. SCROPHULARINÆ.

***KNOTTED FIG-WORT**, *Scrophularia nodosa*;—**Water fig-wort, Water betony, S. aquatica, Betonica aquatica*. Incisive, attenuating, used in scrofula and cancer. *Officinal preparations*.—Unguentum scrophulariæ.

HEDGE HYSSOP, *Gratiola, G. officinalis*. Very acrid, drastic, vermifuge, used also in dropsy and jaundice; dose gr. v to ℥jss, beginning with a small one; inspissated juice gr. xx to xxx is purgative and diuretic.

SWEET WOOD, *Capraria bifolia*. Flowers used instead of tea.

***FOX-GLOVE**, *Digitalis, D. purpurea*. Leaves, *digitalis folia*, used externally as vulnerary and antiscrofulous; and internally, in doses of gr. ss to gr. ij, as a sedative, and particularly as a diuretic; but great caution is required in using it, because it accumulates in the system; and the practitioner may be surprised at the sudden demise of his patient, even after he has left off its use. Seeds, *digitalis semina*, used for the same purposes, less uncertain. *Officinal preparations*.—Infus. digit. *D. L. E.* Tinct. digit. *D. L. E.*

YELLOW FOX-GLOVE, *Digitalis lutea*. May be used as the former.

***SNAP DRAGON**, *Antirrhinum majus*. Antihysterical, and used externally in ophthalmia.

***TOAD-FLAX**, *Linaria, Antirrhinum linaria, L. vulgaris*. Deobstruent, diuretic.

***SMALL TOAD-FLAX**, *Antirrhinum minus*;—**Ivy-leaved toad-flax, Cymbalaria, A. cymbalaria, Linaria cymbalaria*;—**Fluellin, Female speed-well, Elatine, Veronica fœmina, A. elatine*. Are all anticancerous, especially the last, the juice of which is used in foul ulcers and cutaneous eruptions.

***CALVES' SNOUT**, *Orontium arvense, Antirrhinum orontium*. Herb poisonous.—*Hemimeris caulialata*. Stomachic, anodyne.—*Diceros Cochinchinensis*. Eaten in salads.—*Picria felterrae*. Intensely bitter.—*Besleria violacea*. Berry edible.

73. SOLANÆÆ.

More or less poisonous.

***WHITE MULLEIN**, *High taper, Cows lung-wort, Verbascum, Tapsus barbatus, V. thapsus*. Anodyne and pectoral; the down has been used as mœxa for the actual cautery; a decoction of ℥ij of the leaves in a quart of water, given in doses of ℥iij every three hours in diarrhoeas.

***YELLOW MOTH MULLEIN**, *Blattaria*, *Verbascum blattaria*. Has the same qualities; attracts moths; seeds inebriate fish.

***BLACK MULLEIN**, *Verbascum nigrum*. Root astringent; leaves and flowers anodyne and pectoral.

***WHITE-FLOWERED MULLEIN**, *V. album*, *V. lychnitis*. Leaves pulmonary.

***HEN-BANE**, *Hyoscyamus*, *H. niger*. Leaves, *hyoscyami folia*, a very powerful narcotic, in doses of gr. iij to gr. x; externally is anodyne or resolvent; seeds, *hyoscyami semina*, narcotic, gr. iij to gr. x, less uncertain than the leaves; their smoke, applied by a funnel, is used in toothach. *Officinal preparations*.—*Succus spissatus hyoscyami*, *E. D.* *Extract. hyoscyami*, *L.* *Tinct. hyos.* *L. E. D.*

GREAT WHITE HEN-BANE, *Hyoscyamus albus*. Milder than the black; seeds used in spitting of blood.

TOBACCO, *Nicotiana*, *Petum*, *Tabacum*, *N. tabacum*. Leaves, *tabaci folia*, when green, deterrent, acrid, narcotic, and apophlegmatizant; used externally in diseases of the skin, and as a dressing to verminous sores; and internally as an emetic, gr. iij to gr. x in water ʒiiij, and in dropsy and palsy; their smoke is used as a pleasant mode of losing time, and as a stimulating clyster in apoplexy, inveterate costiveness, and apparent death by drowning or hanging; in which last case, however, it is sometimes improper; as, if it does not immediately succeed, it exhausts the patient so much as to render other means ineffectual; imported from America and the West Indian islands.—*English tobacco*, *Nicotiana minor*, *N. rustica*. Leaves narcotic; sometimes sold as those of mandrake. *Officinal preparations*.—*Infus. tabaci*, *L. D.* *Vinum tabaci*, *E.*

***THORNY APPLE**, *Stramonium*, *Datura stramonium*. Herb a strong narcotic, even when mixed with tobacco and smoked; much used lately in asthma; externally the leaves, *stramonii folia*, are anodyne, and used in headach and the gout; seeds, *stramonii semina*, may be given in powder to gr. x; expressed juice made into an ointment with hog's lard, used for irritable ulcers, burns, and scalds. *Officinal preparations*.—*Extractum stramonii*, *D.*

METEL, *Datura metel*. Seeds narcotic, more powerful than the last, produce temporary idiotcy, used for frauds.

MANDRAKE, *Mandragora*, *Atropa mandragora*. Formerly supposed to be aphrodisiac, root gr. iij narcotic, or it may be steeped in wine: leaves externally used as anodynes and resolvents, as also the powder of the root to indurated glands.

***DEADLY NIGHT-SHADE**, *Dwale*, *Solanum lethale*, *S. maniacum*, *S. furiosum*, *Belladonna*, *Atropa belladonna*. Leaves *belladonna*

folia, applied to the eye, paralyse the iris; they are useful in cancer and scrofula, either applied as poultices, or sprinkled over the sores; used also internally in doses of gr. j to iij in obstinate diseases, acting as a narcotic, diaphoretic, diuretic, and sialogogue. Berries eaten in an over-dose, that is, more than three or four, are poisonous; vinegar is the best antidote, as emetics, even tartar emetic \mathcal{E} ss, have, in this case, scarcely any action; juice of the berries cosmetic, rendering the cheeks pale, made into syrup, in doses of coch. parv. j, has been given as an anodyne in dysentery. The narcotic properties of this substance depend on its containing the alkaloid *atropia*.

WINTER CHERRY, *Alkekengi*, *Halicacabum*, *Physalis alkekengi*. Berries antinephritic, lithontriptic, and diuretic; if in gathering they are rubbed against the calyx, they acquire a nauseous taste, and become purgative.

JAMAICA WINTER CHERRY, *Physalis angulosa*. Juice of the plant, with Cayenne pepper, diuretic; eases the colic.

*COMMON NIGHT-SHADE, *Solanum vulgare*, *S. nigrum*. Leaves used externally as anodyne in erysipelas; young shoots, *bredes*, *laman*, eaten as spinage; berries produce mania, somnambulism, and death.

*BITTER SWEET, *Woody night-shade*, *Solanum lignosum*, *Dulcamara*, *S. dulcamara*. Twigs, *dulcamaræ caules*, diuretic, depurative, in chronic eruptions; its taste being covered with milk. The form in which it has been used is chiefly that of decoction; two or three ounces of that of the London Pharmacopœia may be given thrice a day. *Officinal preparation*.—Decoct. dulc. D.

LYCOPERSICON, *Solanum lycopersicon*. Berries, *love-apple*, *tomatoes*; used to make a sauce.

MELONGENA, *Solanum melongena*. Leaves narcotic; berries, *mad apples*, *mala insana*, boiled and eaten in the warmer countries. *S. incanum*. Leaves applied to cancers.

SOLANUM TUBEROSUM. Tubers of the root, *potatoes*, *batatas*, appear to yield a vast quantity of food upon a small extent of ground, and with little labour, but only one-seventh part of the weight is nutritive; the remainder is an acrid, poisonous juice. When it first began to be used, it was supposed to be narcotic, diuretic, and aphrodisiac.

SALEP POWDER, *French salep*. Potatoes peeled, cut in slices, baked until brittle, hornlike and breaking like glass, then ground to a whitish powder.

SOLANUM OVIGERUM, distinguishable from the egg-like variety of *S. melongena*, by its acrid pulp, which being removed by the scoop or pressure, the flesh is dressed and eaten.—*S. vespertilio*.

Berries deep lake-red, used to colour the cheeks.—*S. montanum* ; —*S. valenzuelæ*. Tubers farinaceous.—*Tree night-shade*, *Amomum Plinii*, *Solanum pseudocapsicum*. Fruit anodyne.

SLEEPY NIGHT-SHADE, *Solanum somniferum*, *Physalis somniferum*. Root hypnotic, milder than opium ; fruit very diuretic ; decoction of the herb used in toothach.

NATRE, *Solanum crispum*. Shrub very bitter ; berry in infusion used in inflammatory fevers.—*S. muricatum* ;—*S. anguivi*. Fruits eatable.—*S. scabrum* ;—*S. gnaphaloides*. Berries saponaceous.

CAPSICUM, *C. annuum*. Berries, *Spanish pepper*, *Pepper pods*, *Guinea pepper*, *Capsici baccæ*, *Capsicum*, P. U. S., which are fleshless, are of a burning heat, irritating, attenuant ; used as sauce, or to give a false strength to vinegar, spirits, &c. ; infused in vinegar, used as a gargle ; the powder is given in doses of gr. iij to viij ; externally they are rubefacient ; with hog's lard, form a liniment for paralytic limbs. *Officinal preparations*.—Tinct. capsici. *D. L. E.*

PIPER INDICUM, *Capsicum frutescens*. Berries, *Bird pepper*, *Red pepper*, *Cayenne pepper*, *Guinea pods*, *Tschilies*, used for the former.—*Coffrèe tshilie*, *C. grossum*. Flesh of the berry pickled.

CALABASH TREE, *Crescentia cujete* and *C. lagenaria*. Pulp used in diarrhœa, dropsy, headach ; also externally in burns and in coups de soleil ; expressed juice of the pulp ʒiiij is purgative : a pectoral syrup is also made from it, which is sent over to Europe.

74. SEBESTENÆ.

CORDIA MYXA, and *C. sebesten*. Fruit, *sebestens*, *myxa*, is esculent, laxative ; bird-lime is made from it : wood tough, solid, used for procuring fire by friction.—*C. geras-canthus*. Wood, *Jamaica rosewood*, fine-scented, used by the cabinet-makers, and distilled for its oil.

77. BORAGINÆ.

The plants of this order are refreshing.

*BORAGE, *Borago officinalis* ;—**Garden bugloss*, *Ox tongue*, *Buglossum hortense*, *Achusa officinalis*. Flower cordial ; the tops were formerly used in cool tankards ; leaves refreshing, moistening ; contain nitre.

*SPOTTED LUNG-WORT, *Spotted comfrey*, *Sage of Jerusalem*, *Cows lips of Jerusalem*, *Pulmonaria maculosa*, *P. officinalis* ;—**Small wild borage*, *Great goose-grass*, *German mad wort*, *Asperugo procumbens* ;—*Wall bugloss*, *Lycopsis*, *A. Ægyptiaca*. Root sudorific, also used with oil as a dressing for wounds.

*MOUSE EAR, *Scorpion grass*, *Myosotis scorpioides* α , *M. arvensis* ; —**Water scorpion grass*, *M. scorpioides* β , *M. palustris* ;—**Small*

wild bugloss, Lycopsis arvensis;—*Creeping bugloss, L. vesicularia*. Are all pectoral plants.

ALKANET, *Anchusa tinctoria*. Mostly brought from France;—*Anchusa Virginica*. Root used as alkanet.—*Small yellow alkanet, Onosma echioides*;—**Gromwell, Bastard alkanet, Miliun Solis, Lithospermum, L. officinale*;—*Dyer's bugloss, L. tinctorium*;—*L. arvense*.

TRUE ALKANET, *Echium rubrum*. Bark of the root colours oily substances red, used in lipsalves; juice of the fresh roots used to redden the cheeks: colouring matter extracted by ether.

STONE BUGLOSS, *Onosma, Echium Italicum*. Leaves in wine facilitate delivery.

***VIPERS BUGLOSS**, *Echium, E. vulgare*. Root opening and slightly astringent.

SMALL TURNSOL, *Heliotropium minus, H. supinum*. Herb laxative; seeds emmenagogue.

TURNSOL, *Heliotropium Europæum*. Softens warts, and makes them fall off; taken internally it opens the belly; flowers used as a blue colour, when altered by ammonia as a purple, and by acids as a red.—**Jamaica turnsol, H. Jamaicense*. Plant in decoction diuretic.

***COMFREY**, *Great consound, Symphytum, Consolida major, S. officinale*. Root astringent, glutinous: leaves used to flavour cakes; young shoots esculent.

***HOUNDS TONGUE**, *Cynoglossum, C. officinale*. Roots astringent and sedative; used externally, and internally in decoction, in scrofula: the herb bruised drives away mice.

78. CONVULVULACEÆ.

These are generally purgative.

CONVOLVULUS JALAPA. Root *jalap, jalapium, jalapa, mechoacanna nigra, jalapæ radix*, a very active purgative, in doses of ʒss to ʒj, in powder. In hypochondriacal disorders and bilious temperaments it gripes violently, and seldom acts properly as a purge, unless combined with the potassæ supertartras and a little ginger; from South America. Sea colewort root, white briony root, root of *Thapsa villosa*, root and leaves of spurring cucumber, hemp agrimony root, root of *Anthericum planifolium*, petals of the dog rose may be used as substitutes. *Officinal preparations*.—Tinct. jal. L. D. E. Extractum jalapæ, L. D. E. Pulv. jal. comp. D. E. Tinct. sennæ comp. E.

CONVOLVULUS TURPETHUM. Root, *turbith, turbeth, turpethum*, similar to jalap, rougher in its operation.

ROCK ROSE, *Cneorum album, Dorycnium, Convolvulus cneorum*. Root purgative.

LAVANDER BIND-WEED, *Cantabrica*, *Convolvulus minimus*, *C. Cantabrica*. Herb vermifuge.

CONVOLVULUS MECOACANNA. Root, *mechoacan*, *mechoacanna alba*, less active than jalap, and not so fatiguing.

*SEA COLE-WORT, *Scotch scurvy-grass*, *Soldanella*, *Brassica marina*, *Convolvulus soldanella*. Root purgative.

ALEPPO SCAMMONY PLANT, *Convolvulus scammonium*. Roots yield, by incision, Aleppo scammony.

CONVOLVULUS FLORIDUS. Root used as an errhine; wood, *rosewood*, of good quality.—*C. edulis*. Root eaten.—*C. althæoides*. Root purgative, may also be substituted for jalap.

*BIND-WEED, *Convolvulus sepium*;—*C. arvensis*. Juices purgative.

SEA-SIDE POTATO-SLIP, *Convolvulus Brasiliensis*. Root, in decoction, purgative; yields scammony.—CONVOLVULUS BATATAS. Root, *sweet potatoes*, *Spanish potatoes*, nutritive.

CONVOLVULUS SCOPARIUS. Wood, *rosewood*, hard, used by the fan-makers, shavings have the scent of roses; brought from the Canary Islands.

CONVOLVULUS PAPIRIN;—*C. tuberosus*;—*Wild potatoes*, *C. panduratus*;—*C. macrorrhizos*;—*C. macrocarpus*;—*C. maritimus*. Roots purgative.

*DODDER OF THYME, *Epithymum*, *Cuscuta epithymum*;—
*Great dodder, *Hell weed*, *Cuscuta Europæa*. Juice purgative, deobstruent; externally used against the itch.

IPOMEA QUAMOCLIT. Root used as a sternutatory.

79. POLEMONIDEÆ.

*Greek valerian, *Jacob's ladder*, *Polemonium cœruleum*. Root astringent, antidyenteric, and vulnerary.

80. BIGNONIACEÆ.

GINGELLY, *Jugeoline*, *Guiggjolana*, *Vangloe*, *Sesamum orientale*. Seeds parched and ground, eaten, or mixed whole with bread, yield oil.

BIGNONIA RADICANS;—*B. sempervirens*;—*B. echinata*. Roots vulnerary, sudorific, employed in America against the bites of venomous animals.

WHITE CEDAR, *B. leucoxydon*. Alexiterial, used against the poison of the manchineel apple.

BIGNONIA BRASILIENSIS, *Jacaranda Brasiliensis*. Wood, *green ebony*, used in dyeing.

81. GENTIANÆ.

The roots are generally bitter, tonic, and febrifuge.

GREAT YELLOW GENTIAN, *Gentiana*, *G. lutea*. Root, *gentianæ radix*, very bitter, febrifuge, vermifuge, antiseptic, carminative, dose in powder gr. x to ʒij; contains saccharine matter; fermented yields a spirit; from Germany. *Officinal preparations*.—*Infus. gent. comp.*, *D. L. E.* *Tinct. gentianæ*, *D. L. E.* *Extract. gentianæ*, *D. L. E.*

GENTIANA CAMPESTRIS;—*Cachen*, *G. Peruviana*;—**Yellow centaury*, *G. perfoliata*, *Chlora perfoliata*;—*Blue gentian*, *G. Catesbei*. Roots bitter, tonic.

***GENTIANEL**, *Gentianella verna*, *G. verna*;—**Fell wort*, *Bastard gentian*, *Gentianella autumnalis*, *Gentiana amarella*;—*Chirayit*, *Creata*, *G. chirayita* (highly esteemed in India, and recently used with advantage in this country).—*Gentiana cruciata*;—*G. rubra*;—*G. purpurea*;—**Marsh gentian*, *Calathian violet*, *G. pneumonanthe*;—*Gentiana grandiflora*, *G. acaulis*. Herbs bitter, used as tonics.

***LESSER CENTAURY**, *Centaureum minus*, *Gentiana centaurium*, *Chironia centaurium*. Flowering tops, *centaurii cacumina*, bitter, febrifuge, and vermifuge; used against obstructions, jaundice, weaknesses, hydrophobia; sometimes cathartic; externally in decoction destroys lice and cures the itch. Roots more powerful than the flowers.

WORM GRASS, *Carolina pink*, *Spigelia Marylandica*;—*S. anthelmia*. Herbs bitter, used to expel lumbrici from children: dose of the powdered root or herb, gr. x to ʒj, night and morning; expressed juice, cochl. maj. j to children of four or five years old: infusion of the herb coch. maj. ij, for the same age.

OPHIORRHIZA MUNGOS;—*O. lanceolata*. Roots bitter, alexiterial, used against the bite of venomous serpents, analogous to serpentaria.

COUTOUBÆA ALBA;—*C. purpurea*. Febrifuge and stomachic.

AMERICAN CENTAURY, *Chironia angularis*, *Sabbatia angularis*, *Sabbatia*, *P. U. S.*;—*C. decussata*. Roots extremely bitter, used as tonics.

MARSH TREFOIL, *Bog bean*, *Trifolium paludosum*, *Menyanthes*, *M. trifoliata*.—**Fringed bog bean*, *Dwarf water lily*, *Nymphæa lutea minor*, *Menyanthes nymphoides*, *Villarsia nymphoides*. These are very bitter, astringent: root mixed with meal, in scarcities of bread: leaves dried and powdered, ʒj, purge and vomit, used as a vermifuge; an infusion is extremely bitter, and useful in

rheumatism and dropsy; substituted for hops in brewing, 2 oz. being equal to a lb. of hops.

FRASERA Walteri, *Muretta columbo*. Root, *American columbo*, *Frasera*, P. U. S., used as calumba root.

POTALIA AMARA. Bitter, acrid, and vomitive.

82. APOCYNEÆ.

ROSE BAY, *South Sea rose*, *Nerium oleander*. Internally poisonous; externally astringent, antipsoric, and sternutatory; wood used to clear muddy water; leaves acrid, appear to contain free gallic acid, poisonous, infused in oil, used in itch.

BELA-AYE, *Nerium antidysentericum*, *Echites antidysenterica*. Bark, *Tellicherry bark*, *Conessi bark*, *Coduga pala*. Bitter, used in dysentery: seeds vermifuge and antispasmodic, used in cholera.—*Echites syphilitica*. Used in syphilis.

OPHIOXYLON SERPENTINUM: root, *radix mustela*, purgative, bitter, tonic, febrifuge: used in the bites of serpents.

ALCHORNIA LATIFOLIA: bark, *alcornoeco cabarro*, in thick, flat, long pieces, rather spongy, reddish yellow, covered with yellowish lichens: from Jamaica; used in phthisis, ʒj in powder, or in decoction.

SWALLOW WORT, *Hirundinaria*, *Asclepias vincetoxicum*: root, *German contrayerva*, irritating, forcing out a sweat, alexiterial and antihydropic.

COMMON SILK WEED, *Apocynum Syriacum*, *Asclepias Syriaca*. Milk of the plant a drastic poison; leaves resolvent, root emetic.—*A. lactifera*. Milk used as food.

ERICU, *Asclepias gigantea*. Milk inspissated, used in lepra; inner rind of the root, *madar*, *mudar*, in syphilis and tapeworm, gr. v. twice a day.

BASTARD IPECACUANHA, *Red head*, *Asclepias Curassavica*. Root whitish, mixed with ipecacuanha, less active; expressed juice of the plant emetic, coch. maj. j to ij; or as a clyster in bleeding piles: bruised leaves applied to fresh wounds.

FLESH-COLOURED ASCLEPIAS, *Asclepias incarnata*. Root diuretic.—*A. stipitacea*;—*A. aphylla*. Young shoots esculent.

BUTTERFLY WEED, *Asclepias tuberosa*. Root diuretic, purgative.—*A. decumbens*. Root, *butterfly root*, diaphoretic, slightly stimulant; also purgative.

CYNANCHUM IPECACUANHA, *C. vomitoria*, *Asclepias asthmatica*. Root, *Coromandel ipecacuanha*, emetic; young shoots esculent.

CYNANCHUM MAURITIANUM. Root, *Isle of France ipecacuanha*;—*C. levigatum*, *C. rindera*, *Rindera levigata*, *R. tetraspis*, *Mattia*

laevigata. Root, *White Bengal ipecacuanha*;—*C. tomentosum*. Root, *Ceylon ipecacuanha*, emetic.

FERGULEA EDULIS. Young shoots eatable.

EUROPEAN SCAMMONY, *Cynanchum monspeliacum*. Yields French scammony.

PERIPLOCA SCAMMONIUM. Root yields by incision Smyrna scammony.—*P. emetica*. Root used for ipecacuanha.

PERIPLOCA INDICA. Root, *East Indian sarsaparilla*, alterative.

SCAMMONY SENNA, *Periploca Græca*. Leaves mixed with senna, more pointed, and longer. *P. esculenta*. Young shoots esculent.

VENETIAN DOG'S BANE, *Apocynum Venetum*. Leaves mixed up with grease used to poison animals.—*A. Indicum*. Young shoots eatable.

AMERICAN DOGS' BANE, *Apocynum androsæmifolium*. Root, *apocynum*, P. U. S., emetic.

*PERIWINKLE, *Vinca pervinca*, *V. minor*;—*Greater periwinkle, *V. major*. Leaves astringent, used in tanning, antidiysenteric, contracting and strengthening the sexual organs: in hot climates the plants of this genus acquire poisonous qualities.

THEOPHRASTA AMERICANA. Pulp of the fruit esculent.

CERBERA MANGHAS. Bark purgative.—*C. Thevetia*, *C. ahouai*. Seeds, *nux ahouai*, violently emetic.

BOHON UPAS, *Cerbera oppositifolia*. The famous Molucca poison-tree.

TABERNÆMONTANA ARCUATA. Stem lactescent; exudes rosin.

STAPELIA INCARNATA. Herb esculent.

URCEOLA ELASTICA;—*Vahea*. Yield elastic gum.

83. STRYCHNEÆ.

STRYCHNOS NUX VOMICA. Ripe pulp eatable in small quantity. Seeds, *nux vomica*, horny, require rasping or roasting, very bitter, emetic, and poisonous to most animals; they act as an excitant upon the nervous system, producing tetanus: used in paralysis with some success, and in chronic diarrhœa and chronic dysentery; said to render persons insensible to the poison of serpents. The active principles of it are *Strychnia* and *Brucea*. Its action appears to be directed towards the spinal cord, and to have no influence on the brain. It is found useful in paralytic affections of the voluntary muscles. *Officinal preparations*.—*Extractum nucis vomicæ*, *D.*

IGNATIA AMARA, *Strychnos Ignatia*. Seed, *faba sancti Ignatii*, *Saint Ignatius's bean*, has the form of a nut, excessively bitter,

occasions giddiness, convulsions, and vomiting, but has been used in small doses to cure agues.

STRYCHNOS COLUBBINUM. Wood, *snake wood*, *lignum colubrinum*, occasions tremblings, is emetic, vermifuge, very bitter, and serviceable in stubborn intermittents, and chronic diarrhœa.

TITAN COTTE, *Strychnos potatorum*. Wood and seeds very bitter, used to render muddy water clear; flowers aromatic; ripe fruit emetic; young fruit preserved used as a sweetmeat.

85. JASMINEÆ.

Flowers odorous, and leaves slightly astringent.

JASMINE, *Jasminum*, *J. officinale*. Flowers recommended in shortness of breath, and in schirrus of the womb.—*J. grandiflorum*. Yields essential oil.

***PRIVET**, *Ligustrum*, *L. vulgare*. Leaves bitter and slightly astringent; flowers astringent and temperant, used in washes and gargles for ulcers; berries have a dry spongy pulp, from which a rose-coloured paint may be obtained.

SAMBAC, *Targorium sambac*. Yields essential oil.

86. OLEINEÆ.

MOCK PRIVET, *Phillyrea*, *P. media*. Leaves astringent, cleansing ulcers of the mouth.

OLIVE TREE, *Olea*, *O. Europea*. Unripe fruit preserved in brine, oily, astringent. Ripe fruit yields oil; leaves astringent; bark substituted for the Peruvian bark.—*O. fragrans*. Flowers used to scent tea.

***ASH TREE**, *Fraxinus excelsior*. Bark febrifuge and diuretic; seeds acrid, bitter; leaves ʒvj to ʒjss in infusion a good purge; and a decoction of the same has been used to cure agues; exudes a small quantity of manna from the leaves in hot weather.—*F. rotundifolia*;—*F. ornus*;—*F. parvifolia*. Exude manna.

87. TERNSTROMIÆ.

Koleho, *Scapha* Fruit acidulous, eaten.

88. SIMPLICINEÆ.

ALSTONIA Leaves astringent, used as tea.

HOPEA TINCTORIA, *Symplocos Martinicensis*. Leaves used to dye yellow.

CANE STORAX TREE, *Styrax officinale*. Yields, by incision, storax.

BENZOIN LAUREL, *Styrax benzoin*. Yields, by incision, benzoin.

89. EBENACEÆ.

PISHAMIN, *Persimmon*, *Diospyros Virginiana*. Berries eatable when rotten-ripe; bark, *diospyros*, febrifuge, P. U. S.—*D. sapota nigra*;—*Ki*, *Kahi*, *D. kaki*;—*D. decandra*;—*D. chloroxylon*. Berries esculent.—*D. embryopteris*, *Embryopteris peregrina*, *E. glutinifera*. Fruit used as glue, yields gaub; seeds yield oil.

90. SAPOTEÆ.

INOCARPUS EDULIS;—*Mimusops elengi*;—*Imbricaria Malabarica*. Pulp of the fruit eatable.

BUTTER-NUT TREE, *Mava*, *Maduca*, *Bassia butyracea*;—*B. longifolia*. Seeds yield oil.

ACHRAS LACUMA. Seeds resemble chestnuts. *A. caimito*. Tree milky: fruit eatable.

NEESE BERRY, *Achras sapota*. Diuretic: bark used for the Peruvian bark.

SAPODILLA TREE, *Achras mammosa*. Kernel bitter, makes a strengthening emulsion.

STAR APPLE, *Chrysophyllum cainito*. Juice of the unripe fruit, with orange juice, very astringent.—*C. microcarpum*;—*C. Jamaicense*;—*C. oliviforme*;—*C. macoucou*. Fruits esculent.—? *Butter tree*. Yields oil. ? *Cow tree*. Yields cow-tree milk.

92. ERICINEÆ.

Roots and leaves mostly astringent; sometimes narcotic; berries often esculent. The brown powder that adheres to the petioles of almost every species of *kalmia*, *andromeda*, and *rhododendron*, is used, in America, as snuff.

***STRAWBERRY TREE**, *Arbutus unedo*. Fruit astringent: yields sugar.

***BEAR BERRY**, *Uva ursi*, *Arbutus uva ursi*. Leaves, *uva ursi folia*, bitter, astringent, used in disorders of the urinary passages, and thought to be lithontriptic; in powder, gr. x to ℥ij three or four times a day, and in infusion; boiled with an acid dye brown, used to tan leather; leaves of red whorts sold for them.

STRAWBERRY BAY, *Andrachne*, *Arbutus andrachne*. Fruit acerb and austere, but esculent.—*Arbutus Alpina*;—*A. integrifolia*;—*A. mucronata*. Berries esculent.

***HEATHS**. Various species of *Erica*, as *E. vulgaris*;—*E. herbacea*;—*E. purpurascens*. Used in fomentations and baths, against rheumatism and paralytic affections, causing a sweat: dye a fine yellow, and tan leather.

*ROSEMARY-LEAVED ANDROMEDA, *Andromeda polifolia*. Has the same qualities as the preceding.—*A. Mariana*. Decoction used as a narcotic.

*WINTER-GREEN, *Pyrola*, *P. rotundifolia*. Vulnerary.

SMALL WINTER-GREEN, *Pyrola altera*, *P. secunda*. Herb cooling, drying; leaves diuretic: used in dropsy.

AMERICAN WINTER-GREEN, *Pyrola umbellata*, *Chimaphylla umbellata*. An infusion of the leaves has been found efficacious as a diuretic in dropsy.

PARTRIDGE BERRY, *Gualtheria procumbens*. Leaves, *gualtheria*, P. U. S., used for tea.

RHODODENDRON MAXIMUM; *R. Ponticum*;—*Dwarf rosebay*, *R. ferrugineum*;—*Yellow rhododendron*, *R. chrysanthum*. Leaves austere, astringent, bitter, stimulant; diaphoretic and narcotic; used against the rheumatism and gout; ʒij of the dried leaves, infused in half a pint of water, kept hot all night, and drank in the morning: root astringent.

MARSH CISTUS, *Wild rosemary*, *Ledum palustre*. Gives an agreeable odour to beer, but renders it heady: root astringent.

LABRADOR TEA, *Wishecumpuoware*, *Wiserpukki*, *Ledum latifolium*. Leaves used for tea.

AZALEA PROCUMBENS. Bark and leaves astringent.

BROSSÆA COCCINEA;—*Riche's support*, *Styphelia Richei*. Berries esculent.

93. VACCINIÆ.

*VACCINIA, *Myrtillus*, *V. myrtillus*. Berries, *black whortle berries*, *bilberries*, acidulous, refreshing, useful in fevers, also antiscorbutic; would make wine: dried berries, *berry dye*, imported from Germany to colour wines.

*GREAT BILBERRY, *Vaccinia uliginosum*;—**Red whort*, *V. vitis Idæa*. (Leaves sold for those of *uva ursi*, but are veined in a network above, dotted underneath, and their infusion precipitates neither isinglass, jelly, nor a solution of green vitriol.)—*V. glaucum*;—*V. meridionale*; berries esculent.

AMERICAN CRANBERRY, *Vaccinium macrocarpum*, *Oxycoccus erythrocarpus*. (Berries imported in large quantities from North America preserved in water.)—*White cranberry*, *O. hispidulus*;—**Cranberry*, *V. oxycoccus*, *O. palustris*. Berries esculent, used in tarts.

95. CUCURBITACEÆ.

Fruits mostly esculent, but a few have the laxative power so increased as to become drastic purgatives.

***WHITE BRYONY**, *Bryonia alba*, *B. dioica*. Root, ʒj to ʒj, in powder, or coch. j of its juice, nauseous, violently emetic and purgative; externally resolvent: yields fæcula.—*Bryonia callosa*. Seeds vermifuge; yield an oil.

ABYSSINIAN BRYONY, BRYONIA Root esculent when boiled.

***WILD CUCUMBER**, *Spurting cucumber*, *Cucumis agrestis*, *C. asininus*, *Momordica elaterium*. Root and herb hydragogue, vermifuge; leaves, used externally, deterrent and resolvent: fruit, *elaterii poma*, yields elaterium; juice of the fruit hydragogue.

BALSAM APPLE, *Cerasse*, *Momordica balsamina*. Root purgative, ʒij in powder; plant vulnerary, balsamic, refreshing; leaves used in decoctions for clysters; fruit, infused in oil, makes a vulnerary balsam; the juice that exudes upon cutting the ripe fruit, used for fresh wounds.—**MOMORDICA CHARANTIA**. Very bitter, vermifuge, used in brewing in the East Indies.—*M. luffa*. Used to rub the body in cutaneous eruptions; fruit eatable.

TRICHOSANTHES AMARA. Fruit very bitter, purgative, emetic; used to destroy rats.

COLOQUINTIDA, *Colocynthis*, *Cucumis colocynthis*. Fruit, *shell colocynth*, imported from the Levant; pulp of the dry fruit, *bitter apple*, *peeled colocynth*, *colocynthis pulpa*, also imported; purgative, in powder, gr. iij—viij, well rubbed with some gummy or farinaceous substance, or in clysters, ʒj; mixed with paste or other cements, to keep away insects by its extreme bitterness: seeds ground used for the pith. *Official preparations*.—Extract. col. *L. D.* Extr. col. comp. *L. E. D.* Pil. col. comp. *E. D.*

***CUCUMBER**, *Cucumis hortensis*, *C. sativus*. Fruit eaten, cooling; young fruit, *gerkins*, pickled for a sauce; *salted cucumbers*, imported from Russia; seeds yield oil.—*C. chate*. Fruit has a sweet refreshing juice.

WATER MELON, *Cucumis anguria*. Fruit eatable, refreshing.

***MELON**, *Melo*, *Cucumis melo*. Fruit very refreshing; much eaten in France, where it takes the place of our potatoes.

***GOURD**, *Calebash*, *Cucurbita*, *C. lagenaria*. Seeds cooling; leaves, no. 15—20, in decoction, form a purgative clyster.

***PUMPKION**, *Pepo*, *Cucurbita pepo*. The same qualities as the preceding; applied externally in burns, erysipelas, &c.

SQUASH, *Cucurbita melopepo*. Fruit better tasted than the preceding, but of the same quality.

CITRUL, *Water melon*, *Citrullus*, *Cucurbita citrullus*. Flesh of the fruit saccharine and watery.

***VEGETABLE MARROW**, *Cucurbita succada*. Fruit an excellent potherb, coming into use in England.

COCCOON ANTIDOTE, *Feuillea cordifolia*. Alexiterial, febrifuge, used in venomous bites; kernel of the fruit, called, in St. Domingo, *noix de serpente*, infused in rum or water, used against sedative poisons.

CALABASH COCCOON-ANTIDOTE, *Feuillea scandens*. Seeds bitter and laxative; a large dose vomits.

96. LOBELIACEÆ.

LOBELIA URENS;—*L. circiifolia*. Very active, reputed a poison.

CARDINAL FLOWER, *Lobelia cardinalis*. Root vermifuge.

BLUE CARDINAL FLOWER, *Lobelia syphilitica*. Root depurative, anti-venereal.

LOBELIA TUPA. Plant and root poisonous in the extreme; acts as an emetic simply by smelling the flowers: juice caustic.

INDIAN TOBACCO, *Lobelia inflata*. Root, *lobelia*, P. U. S. used in leucorrhœa.—*L. longiflora*. Juice corrosive.

97. CAMPANULACEÆ.

SYRIAN BELL-FLOWER, *Medium*, *Campanula laciniata*. Roots restrain the menses; seeds stimulate their expulsion.

***FIELD BELL-FLOWER**, *Campanula patula*. Leaves lactescent, bitter.

***RAMPIONS**, *Rapunculus esculentus*, *Campanula rapunculus*. Root esculent, far more delicate than turnips or radishes; juice odontalgic; seeds ophthalmic.

***GREAT THROAT-WORT**, *Canterbury bells*, *Trachelium*, *Campanula trachelium*. Root eaten in salads; herb astringent, recommended in quinsey, tumours, and inflammation of the mouth.

***COVENTRY BELLS**, *Viola Mariana*, *Campanula medium*. Root used as a potherb, cooling.

***HORNED RAMPIONS**, *Rapunculus corniculatus*, *Phyteuma orbiculare*. Herb used in syphilis. **SPIKED RAMPIONS**, *Phyteuma spicata*. Root astringent, used in quinsey.

***HAIRY SHEEPS-SCABIOUS**, *Scabiosa ovilla*, *Jasione montana*. Herb astringent, used in inflammations of the mouth and neighbouring parts.

98. CICHORACEÆ.

***ENDIVE**, *Cichorium*, *Seris*, *C. endivia*. Roots used as a potherb; blanched stems as a salad and potherb.

***WILD SUCCORY**, *Cichorium agreste*, *C. intybus*. Aperitive, hepatic, attenuant, used in fevers; root used for coffee.

***NIPPLE WORT**, *Lampsana*, *Lapsana communis*. Used for healing sore nipples.

WART SUCCORY, *Zacintha*, *Cichorium verrucarium*, *Lapsana zacintha*. Herb diuretic, edulcorant; takes off warts.

BLUE GUM-SUCCORY, *Catananche cœrulea*. Similar to wild succory.

***SPANISH CARDOONS**, *Scolymus Hispanicus*. Root and young shoots esculent.

GOLDEN THISTLE, *Scolymus maculatus*. Root used instead of eryngo.

***ITALIAN LETTUCE**, *Scariola*, *Lactuca scariola*.

***LETTUCE**, *Lactuca*, *L. sativa*. Many varieties. Has been substituted for opium in checking diarrhœa, allaying cough and diminishing pain in rheumatism. An inspissated juice is made of it; dose, gr. ij, iv, or viij, in pills. Leaves refreshing, slightly anodyne, laxative, and antiphrodisiac.

***STRONG-SCENTED WILD-LETTUCE**, *Lactuca sylvestris major odore opii*, *L. virosa*. The inspissated juice has been given in dropsies arising from visceral obstructions; gently laxative, very diuretic and somewhat diaphoretic. Narcotic and anodyne, occasions giddiness; inspissated juice resembles opium.

GUM SUCCORY, *Chondrilla prima*, *Lactuca perennis*. Herb restrains the menses.

WILD LETTUCE, *Lactuca elongata*. Herb narcotic.

VEJUCO, *Prenanthes serpentaria*. Persons inoculated with its juice are insensible to the poison of serpents.

RUSHY GUM-SUCCORY, *Chondrilla juncea*. Laxative, diuretic; used in dropsy, gr. xvij to ʒ iij, in twenty-four hours.

SONCHUS PLUMIERI. Calyx exudes resinous drops.

GREAT HAWK-WEED**, *Hieracium*, *H. majus*, *Sonchus arvensis*; —Smooth sow-thistle**, *Hare's lettuce*, *Sonchus lævis*, *S. oleraceus lævis*; —***Prickly sow-thistle**, *S. asper*, *S. oleraceus asper*. These and the other species of this genus, as well as those of *picris*, *crepis*, *prenanthes*, *hyoseris*, &c., possess similar qualities with lettuce.

***GOLDEN LUNG-WORT**, *Pulmonaria Gallica*, *Hieracium muro-rum*. Herb cordial and pulmonary.

***COMMON MOUSE-EAR**, *Auricula muris*, *Hieracium pilosella*. Leaves sternutatory, vulnerary, astringent.—*H. Gronovii*. Leaves bruised, used to destroy warts.

HUNGARIAN HAWK-WEED**, *Herba costa*, *Hypochaeris maculata*; —Long-rooted hawk-weed**, *Hieracium officinale*, *Hypochaeris radicata*. Used in pulmonary affections and pains of the side.

***SMALL HAWK-WEED**, *Hieracium minus*, *Leontodon autumnale*. Leaves sharpen the sight, laxative.

***DANDELION**, *Piss-a-bed*, *Dens leonis*, *Taraxacum*, *Leontodon taraxacum*. Root, *taraxaci radix*, diuretic, roasted and used as coffee; blanched leaves used in salads; inspissated juice and extract much used, or a strong decoction of the roots, $\bar{3}j$ —iv, two or three times a day, detergent, aperitive, and deobstruent.

LEONTODON BULBOSUS. Root anodyne.

SCORZONEBA, *Viper's grass*, *Scorzonera Hispanica*. Eaten.

HUNGARIAN VIPER'S GRASS, *Scorzonera subcærulea*, *S. purpurea*.

YELLOW GOATS-BEARD**, *Go-to-bed-at-noon*, *Tragopogon pratense*.—SALSAFY**, *T. purpureum*, *T. porrifolium*. Roots eaten as pot-herbs, opening, and supposed to be useful in affections of the chest; young shoots also esculent.

99. CINAROCEPHALÆ.

***GREAT BUR-DOCK**, *Lappa*, *Bardana major*, *Arctium lappa*. Young shoots stripped eaten as asparagus; root used in disorders of the skin, diaphoretic, diuretic, also useful in dropsy, $\bar{3}ij$ of the fresh root boiled in three pints of water to two, and the whole drank in a day and night; seeds diuretic, diaphoretic, and slightly purgative.

***OUR LADY'S THISTLE**, *Milk thistle*, *Carduus Mariae*, *C. Marianus*. Pectoral, antipleuritic, aperitive.

ARTICHOKE, *Cinara*, *Scolymus*, *C. scolymus*. Receptacle and base of the calyx scales eaten as a pot-herb; the bottoms are preserved in brine; infusion of the flowers used as rennet.

CHARDOON, *Cinara cardunculus*. Aperitive, diuretic, and aphrodisiac; flowers used to curdle milk; petioles and ribs of the leaves eaten as potherbs.

FISH THISTLE, *Acarua*, *Carduus casabona*.—**THEOPHRASTUS'S THISTLE**, *Acaruus*, *Carduus Syriacus*. Eaten as potherbs while young.

MELANCHOLY THISTLE, *Cirsium*, *Carduus Monspeliacus*. Root bound on varices to assuage the pain of them.

WOOLLY-HEADED THISTLE, *Friar's crown*, *Carduus eriophorus*. Receptacle eaten as artichokes.

CARLINE THISTLE, *Carlina*, *Chamæleon albus*, *Carlina acaulis*. Root restorative, useful after great fatigue, when proper refreshments cannot be procured: formerly in common use with military men and foot travellers.

***PRICKLY CARLINE THISTLE**, *Carlina vulgaris*. Diuretic and diaphoretic; the dried calyx may serve as a hygrometer; in fine weather it opens horizontally, and is even sometimes reflexed; on the contrary, in wet weather it is closed.—*Carlina acanthifolia*. Receptacle esculent.

*COMMON COTTON-THISTLE. *Acanthium, Onopordum acanthium*. Flowers used to coagulate milk; receptacle eaten as artichokes.

CNICUS ERIOPHORUS. Used in scirrhus tumours.

BASTARD SAFFRON, *Dyer's saffron, Carthamus, Cnicus, C. tinctorius*. Flowers, *safflower*, used to colour broths, also in dyeing, and to adulterate saffron; East Indian oiled; seeds, *parrot's corn*, purgative, emetic, yield oil.

ATRACTYLIS HUMILIS;—*A. gummifera*. Analogous to *Carduus benedictus*; flowers coagulate milk.

DISTAFF THISTLE, *Atractylis, Cnicus lanatus*. Root depurative.

*SAW WORT, *Serratula, S. tinctoria*. Vulnerary; dyes yellow with alum, but is inferior to weld.

*WAY THISTLE, *Carduus arvensis, Serratula arvensis*. Useful in scirrhus tumours; yields a sort of galls.

PACOURINA EDULIS. Receptacle and whole plant edible.

*BLUE BOTTLE, *Cyanus segetum, Centaurea cyanus*;—*Great blue-bottle, Cyanus major, Centaurea montana*. Flowers cooling, astringent, make a fine blue wash colour.

*KNAP WEED, *Matfellow, Jacea nigra, Centaurea Jacea*;—*C. stœbe*. Flowers cooling, astringent.

GREAT CENTAURY, *Centaureum majus, C. centaurium*. Root vulnerary, astringent, anti-dysenteric.

*STAR THISTLE, *Calcitrappa, Carduus stellatus, Centaurea calcitrapa*;—*Carduus benedictus, C. benedicta*. Root diuretic, deobstruent, lithontriptic; leaves alexiterial in infusion; seeds diaphoretic.

*ST. BARNABY'S THISTLE, *Calcitrapa, Centaurea solstitialis*. Herb and seed opening, deobstruent.

CENTAUREA BEHEN. Root, *white ben, ben album, rhapontic blanc, rhubarbe indigène, rhaponticum behen*; used for rhubarb, very astringent.

GLOBE THISTLE, *Crocodilion, Echinops sphærocephalus*. Root used internally in bleeding of the nose; seed diuretic.

LITTLE GLOBE THISTLE, *Ritro, Echinops Ritro*. Root astringent.

ECHINOPS STRIGOSUS. Down of the flower, *Spanish tinder*, used as amadou.

100. CORYMBIFERÆ.

CACALIA ALPINA;—*C. Saracenicæ*. Used in coughs; the juice allays the tickling in the throat.

CACALIA ANTIUPOHOBIUM. Serves as an antidote to euphorbitum.

***HEMP AGRIMONY**, *Eupatorium Avicennæ*, *E. cannabinum*. Herb bitter, hepatic, aperitive, useful in catarrh, cough, and cachexy, also diuretic and vulnerary; root purgative, used for jalap.

AYAPANA, *Eupatorium ayapana*;—**GUACO**, *Huaco*, *E. saturejefolium*? Sudorific, alexiterial, used in bites of serpents and hydrophobia.—*E. purpureum*. Root, gravel root, lithontriptic.—*E. perfoliatum*. Root, thorough root.

WILD HOREHOUND, *Eupatorium teucrifolium*. Astringent.

MOUNTAIN CUDWEED, *Cat's foot*, *Gnaphalium montanum*, *G. dioicum*;—*G. tomentosum*. Flowers used in the violent running of the nose in children, slightly astringent and diaphoretic.

***JERSEY CUD-WEED**, *Gnaphalium luteo-album*;—*Eternal flower*, *Stæchas citrina*, *G. stæchas*. Tops used in obstructions and colds.

GERMAN GOLDEN-LOCKS, *Stæchas citrina Germanica*, *Gnaphalium arenarium*. Herb and tops stimulant, used in palsy.

ORIENTAL GOLDEN-LOCKS, *Chrysocome*, *Gnaphalium orientale*. Root astringent.

***CUD-WEED**, *Herb impious*, *Gnaphalium*, *Filago Germanica*;—

***LEAST CUD-WEED**;—*Gnaphalium minimum*, *Filago montana*;—*F. arvensis*;—*F. leontopodium*. Roots astringent and discussive.

CONYZA SERICEA. Bark and wood used against the toothach.

***PLOUGHMAN'S SPIKE-NARD**, *Baccharis*, *Conyza*, *C. squarrosa*. Root and leaves used in ointments against the itch and farcy, and in wine against the jaundice.

GERMAN GOLDEN-LOCKS, *Chrysocoma linosyris*. Anthelmintic, deobstruent.

***FLEA-BANE**, *Erigeron acre*;—*Philadelphia flea-bane*, *E. Philadelphicum*;—**Canadian flea-bane*, *E. Canadense*. Are diuretic, lithontriptic, and vulnerary.

GREAT FLEA-BANE, *Conyza major*, *Erigeron viscosum*. Herb suppurative.

SMALL FLEA-BANE, *Conyza minor vera*, *Erigeron graveolens*. Herb diuretic.

***STAR-WORT**, *Aster amellus*. Leaves discussive, vulnerary, resolvent; and useful in angina.

SEA STAR-WORT, *Tripolium*, *Aster tripolium*. Root hydragogue.

***GOLDEN ROD**, *Virga aurea*, *Solidago virga aurea*. Herb vulnerary, diuretic, useful in spitting of blood; infusion used in fevers.

AMERICAN GOLDEN-ROD, *Solidago odora*. Leaves, *solidago*, P. U. S., carminative, nervine, used as tea, and even exported in large quantities from America to China.

CANADA GOLDEN-ROD, *Solidago Canadensis*. With alum, dyes wool, silk, and cotton, a beautiful yellow.

***ELICAMPANE**, *Helenium*, *Enula campana*, *Inula helenium*. Root aromatic, slightly bitter, tonic, diaphoretic, stomachic, useful in asthma, hooping cough, and in uterine and exanthematous diseases, usually given in infusion, ʒj for a dose; externally antipsoric: a decoction of the root cures the scab in sheep.

SWEET-ROOTED STAR-WORT, *Inula odora*. Root aromatic.

***MIDDLE SIZE FLEA-BANE**, *Conyza media*, *Inula dysenterica*. Tonic, used in diarrhœa.

***FLEA-BANE**, *Pulicaria*, *Conyza*, *Inula pulicaria*. Drives away insects by its smell.

***COLTSFOOT**, *Tussilago*, *Farfara*, *T. farfara*. Leaves form the basis of most of the British herb tobaccos; used also externally to diminish inflammation; an infusion of the dried leaves is much used as an expectorant in coughs and shortness of breath as tea, or the steam is inhaled for the same purpose: a strong decoction of them is of considerable service in scrofulous cases; the downy substance on the under side of the leaf, dipped in a solution of saltpetre, and dried, is used as tinder; juice drank liberally serviceable in calculous complaints.

ALPINE COLTSFOOT, *Tussilago Alpina*. Has the same qualities.

***BUTTER BUR**, *Petasites*, *Tussilago petasites*. Leaves used to dress ulcers; flowers strongly diaphoretic, diuretic, useful in asthma; root used against the tape-worm.

***GROUNDSEL**, *Frigeron*, *Senecio vulgaris*. Weak infusion a common purge; strong infusion, or juice, used as an emetic, and also given to horses to free them from bots; leaves externally suppurative; flowers given to song-birds as a cooler.

***RAG WORT**, *Seggrum*, *Jacobæa*, *S. jacobæa*. Used in poultices and cholic pains; also as a gargle in sore throat.

ALPINE GROUND-SEL, *Senecio doronicum*. Infusion and steam of the infusion used in asthma.

DORIA'S WOUND-WORT, *Herba doria*, *Senecio doria*;—*Saracen's wound-wort*, *Consolida Saracenicæ*, *Senecio Saracenicus*. Leaves used internally and externally in wounds and malignant ulcers.

FRENCH MARYGOLD, *Tagetes patula*. Dried juice used in disorders of the eyes; flowers dye yellow.

GERMAN LEOPARD'S-BANE, *Arnica montana*. Root discussive, leaves attenuant, diaphoretic, and diuretic, in doses of gr. v to gr.

x; in large doses they induce vomiting until the stomach is used to them. The emetic action of arnica was found by M. Dupuytren to depend on particles of down, which remain suspended in the infusion: hence the necessity of filtering. Much used in bruises from falls; flowers may be substituted for Peruvian bark, in intermittents and gangrenes, ʒj to be taken in two days, beat up with honey into an electuary; in their effects the flowers are stimulating, and when administered in small doses they are very beneficial in raising the pulse, in exciting the action of the entire sanguiferous system, in checking diarrhœas, and particularly in removing paralytic affections of the voluntary muscles. They have also been recommended in chronic rheumatism, in retention of urine from paralysis of the bladder and in amaurosis. They are best exhibited in the form of infusion.

CREEPING LEOPARD'S-BANE, *Doronicum radice dulci*, *Arnica scorpioides*;—**Leopard's bane*, *D. Romanum*, *D. pardalianches*;—*Small leopard's bane*, *D. minus*, *D. plantagineum*. Roots aromatic, used by sportsmen in alpine countries against giddiness.

MARY-GOLD, *Calendula officinalis*. Flowers cordial, hepatic, diaphoretic, and emmenagogue.

***WILD MARY-GOLD**, *Calendula caltha*, *C. arvensis*. Herb cordial.

***DAISY**, *Day's eye*, *Small daisy*, *Bellis minor*, *Consolida minima*, *Symphytum minimum*, *B. perennis*. Root antiscrofulous; leaves in salads open the body, used in vulnerary fomentations.

DIOSCORIDES' CORN MARYGOLD, *Chrysanthemum*, *C. coronarium*. Flowers used to discuss steatomatous tumours.

***GREAT DAISY**, *Ox eye daisy*, *Bellis major*, *Chrysanthemum leucanthemum*.

***CORN MARY-GOLD**, *Chrysanthemum segetum*. Discussive and attenuant, when used externally; and given against the jaundice, asthma, and shortness of breath.

***FEVERFEW**, *Matricaria*, *Parthenium*, *M. parthenium*.

***COMMON CAMOMILE**, *Chamæmelum vulgare*, *M. chamomilla*. Emmenagogue, stomachic, carminative, anticolic; and used externally as a fomentation in nephritic pains.

COST MARY, *Tanacetum balsamita*. Leaves stomachic, cordial, cephalic, uterine, supposed to diminish the narcotic power of opium; seed vermifuge.

***TANSEY**, *Tanacetum vulgare*. Vermifuge, uterine, diuretic; used in colic pains and in gout; dose in substance ʒj, or more, usually drank as tea; seeds vermifuge, substituted for worm seed or santolina.

GOLDEN CUD-WEED, *Heliochrysum*, *Tanacetum annuum*. Herb emmenagogue, used in dyeing, and rheumatism.

***MUG WORT**, *Artemisia*, *A. vulgaris*. Tops active uterines in decoction as a bath; mixed with rice and sugar, are, by the Chinese women, used as a pessary.

ARTEMISIA SINENSIS;—*A. lanuginosa*;—*Madras worm-wood*, *A. Maderaspatana*. Down of the leaves, *moxa*, formed into small cones, is burned on the place affected in gout, rheumatism, diseases of the joints, &c.

***SOUTHERN WOOD**, *Abrotanum mas*, *Artemisia abrotanum*. Tops discutitive, antiseptic, vermifuge, and tonic.

SANTONICUM, *Artemisia santonica*?—*A. contra*?—*A. Judaica*? The seeds, *worm seed*, *semen contra*, *s. cinæ*, used as a vermifuge, in doses of gr. x. to ʒss. three or four times a day; they are also stomachic; tansy seeds are substituted for them.

***WORM-WOOD**, *Absinthium vulgare*, *Artemisia absinthium*;—*True Roman worm-wood*, *Abs. Romanum*, *Art. Pontica*;—*Alpine worm-wood*, *Art. rupestris*;—**Sea worm-wood*, *Common Roman worm-wood*, *Abs. maritimum*, *Art. maritima*. Stomachic, excites the appetite, promotes digestion, antiseptic, and vermifuge; made into conserve, used to prevent dropsy.

TARRAGON, *Dracunculus hortensis*, *Artemisia dracunculus*. Excites the appetite and the menses, heating, carminative; eaten as a pot herb, and communicates a peculiar fine flavour to vinegar and to mustard.

***FINE-LEAVED MUG-WORT**, *Artemisia*, *A. campestris*. Herb astringent, antiseptic, discutient.

SANTOLINA TINCTORIA. Affords a yellow dye.

***COTTON WEED**, *Gnaphalium*, *Athanasia maritima*, *Santonica maritima*;—*Lavander cotton*, *Abrotanum fœmina*, *Chamæcyparissus*, *Santolina chamæcyparissus*. Vermifuge, used to drive away insects from wardrobes.

***OX EYE CAMOMILE**, *Anthemis tinctoria*. Flowers dye a good yellow.

WILD CAMOMILE**, *Anthemis arvensis*;—CAMOMILE**, *Chamæmelum*, *A. nobilis*. Flowers of the latter, *anthemidis flores*, used in flatulent colic, and spasmodic affections, diuretic, laxative, and diaphoretic; they are equal to bark in curing intermittent fevers, giving ʒss to ʒj, in powder, several times during the intermission, and avoiding their laxative effect, by joining an opiate or an astringent; used also externally in resolvent fomentations and poultices.

***STINKING CAMOMILE**, *May weed*, *Cotula*, *C. foetida*, *Anthemis cotula*. Used in hysteric fits; and the juice in the king's evil.

PELLITORY OF SPAIN, *Pyrethrum*, *Anthemis pyrethrum*. Root, *pyrethri radix*, imported from Turkey and Barbary, in bales;

acid, pickled while young for a sauce, sialogogue, and used as a masticatory in the toothach, and in powder, in the cure of intermittents, or as a sternutatory.

OX EYE, *Buphthalmum*, *Anthemis valentima*. Vulnerary, aperitive; dyes a good yellow.

YELLOW STAR-WORT, *Aster Atticus*, *Inguinalis*, *Buphthalmum spinosum*. Vulnerary, and used in buboes, and other swellings of the groin.

MADI, *Madia sativa*. Seeds yield oil.

***YARROW**, *Milfoil*, *Millefolium*, *Achillea millefolium*;—*Achillea nobilis*. Astringent, tonic, and vulnerary, used in hæmorrhages; and externally in headach, tumours, &c.; added to beer to render it more intoxicating, and lately recommended to smokers, in lieu of tobacco: root warm, used for contrayerva. Dr. Stoker of Dublin has found milfoil serviceable in dropsies.

***SNEEZE WORT**, *Bastard pellitory*, *Ptarmica*, *Achillea ptarmica*. Leaves sternutatory; root acrid.

SWEET MAUDLIN, *Ageratum*, *Eupatorium Mesues*, *Achillea ageratum*. Stomachic, cordial, cephalic.

***WATER HEMP-AGRIMONY**, *Eupatorium cannabinum fœminum*, *Bidens tripartita*. Strong smelling, hepatic, vulnerary.

SPILANTHUS ACMELLA. Diuretic, diaphoretic, attenuant, and anodyne; leaves and seeds used as tea.—*Spilanthus tinctorius*. Leaves juicy; when bruised yield an excellent azure colour.—*S. oleraceus*. When masticated irritates the interior of the mouth, and provokes a copious flow of saliva.

BACCHARIS CONCAVA. Leaves dye a black colour.—*B. emarginata*;—*B. dependens*;—*B. oblongifolia*. Vulnerary and consolidant.—*B. prostrata*. Decoction used in dysury.

SUN FLOWER, *Helianthus annuus*. Seeds oily, used in emulsions; young shoots boiled are aphrodisiac; flowers yield turpentine.

JERUSALEM ARTICHOKE, *Helianthus tuberosus*. Roots nourishing, diuretic, give the smell of turpentine to the urine; flowers yield turpentine.

PLACUS TOMENTOSUS;—*P. levis*. Juices used to give a smell to cakes.

CINERARIA HETEROPHYLLA. Bark yellow, powerfully anthelmintic.

ECLIPTA ERRECTA. Juice used to dye the hair black.

VERBESINA BOSWELLIA. Esculent, having the smell and taste of fennel. *Gur' ellu*, *Huts ellu*, *V. sativa*. Seeds pressed for oil.

GALINSOGA PARVIFLORA. Vulnerary and antiscorbutic.

AMBROSIA MARITIMA. Cardiac, cephalic, astringent.

***SMALL BURDOCK**, *Xanthium Lappa minor*, *Bardana minor*, *X. strumarium*. Root bitter, antiscrofulous, and anticancerous.

101. DIPSACEÆ.

***SCABIOUS**, *Scabiosa*, *S. arvensis*. Leaves depurative, used in diseases of the skin, of the lungs, and in quinsy.

***DEVIL'S BIT**, *Succisa*, *Morsus Diaboli*, *Scabiosa succisa*. Root used in syphilis and scrofula.

***TEASEL**, *Fullers' thistle*, *Dipsacus sativus*, *Carduus fullonum*, *D. fullonum*. Root bitter and tonic.

***WILD TEASEL**, *Dipsacus sylvestris*, *Labrum Veneris*, *D. ful-
lonum*. Roots antiscrofulous, and in wine diuretic.

102. VALERIANEÆ.

***WILD VALERIAN**, *Valeriana sylvestris*, *V. officinalis*. Root, *valeriana radix*, very sudorific, diuretic, antiseptic, strengthening the sight, vermifuge, anti-epileptic; given in powder, in doses of ℞j to ℞j, mace covers its unpleasant flavour; plant allures cats and rats to the place. *Official preparation*.—Tinct. and tinct. valer. ammoniata, *D. L. E.*

***SMALL VALERIAN**, *Phu minus*, *Valeriana dioica*.—*Great valerian*, *Phu*, *Valeriana major*, *V. phu*. Root an active tonic, exhibited in spasmodic diseases.

CELTIC NARD, *Nardus Celtica*, *Valeriana Celtica*;—**INDIAN NARD**, *Nardus Indica*, *Valeriana Jatamensi*;—**MOUNTAIN VALERIAN**, *Valeriana montana*. Roots aromatic, used in hysteria and epilepsy.

***CORN SALAD**, *Valeriana locusta*;—**V. rubra*. Young shoots eaten as a salad.

103. RUBIACEÆ.

***WOODROOF**, *Asperula*, *A. odorata*. Hepatic and deobstruent internally; antipsoric externally.

***SQUINANCY WORT**, *Rubia cynanchica*, *Asperula cynanchica*. Used externally in quinsy.

ASPERULA ARVENSIS;—*A. tinctoria*;—***WILD MADDER**, *Rubia sylvestris levis*, *Galium mollugo*;—*Galium sylvaticum*. Roots dye red, herbs opening.

SMALL MOUNTAIN BASTARD MADDER**, *Mollugo montana*. *Galium uliginosum*;—LADIES' BED-STRAW**, *Cheese renning Galium*, *G. verum*;—***CLEAVERS**, *Goose grass*, *Aparine*, *Galium aparine*. Vulnerary, infusion used to curdle milk; roots dye a red colour.

***MADDER**, *Rubia tinctorum*. Root, *madder*, 'grappe, meekrappe, lizari, *rubia radix*, slightly astringent, diuretic, emmenagogue, and aperitive, used in the rickets, dose in powder ℥j to ʒss, or of the decoction ʒij ter die: it dyes red.

RUBIA MANJITH. Root, *Bengal madder*, *munjeet*;—*Danais fragrans*;—*Oldenlandia umbellata*. Root, *chay root*. These roots are all used for dyeing.

CROSS-WORT**, *Cruciata*, *Valantia cruciata*;—LITTLEFIELD MADDER**, *Sherardia arvensis*. Qualities the same as those of ladies' bed-straw.

PSYCHOTRIA SULPHUREA. Extremely bitter, yields a fine yellow tincture; used as a tonic.

PSYCHOTRIA HERBACEA. Roots emetic.—*P. emetica*. Root, *brown ipecacuanha*, *ipecacuanha noir*, *ipec. non annelé*, emetic; contains 9 per cent. of emetine.

CALLICOCCA IPECACUANHA, *Cephaelis ipecacuanha*. Root, *ipecacuanha*, *ipéc. brun*, *ipéc. cannelé gris noiratre*, *ipecacuanhæ radix*, emetic ℥j; outside contains sixteen per cent. of emetine, woody fibre in the centre only one quarter per cent.; from Brazil; the brown and white ipecacuanha are frequently mixed with it. Seeds of orache, narrow-leaved wild orache, leaves of wood betony, or of asarabacca, roots of primrose, oxlip, and tooth-wort may be used for it. The roots of *Asclepias Curassavica*, *A. asthmatica*, *Secamine emetica*, *Apocynum androsæmifolium*, *Euphorbia Gardiana*, *E. ipecacuanha*, *Canthium coronatum*, *Gymnema sylvestre*, *Periploca Mauritanica*, *Cynanchum tomentosum*, *Gillenia trifoliata*, and *Cynoglossum levigatum* are also employed as substitutes.—*Ipecacuanha cannelé gris rouge*. A variety: contains fourteen per cent. of emetine.—*Ipéc. gris blanc*. Another variety. *Officinal preparation*.—*Vinum ipec.* and *pulvis ipec. comp.*

GARDENIA LONGIFLORA. Berry eatable.—*G. gummifera*. Exudes a gum resin like elemi, perhaps cancamc.

GARDENIA DUMETORUM, *Canthium coronatum*. Root, *Malabar ipecacuanha*, emetic.

CANTHIUM PARVIFLORUM, *Webera tetrandra*. Root bitter, red.

MACRONEMUM CORYMBOSUM. Bark bitter, viscid, inside white, often mixed with that of cinchona.

VAUGERIA EDULIS. Seeds like almonds.

PINKNEA PUBESCENS. Bark febrifuge, used the same as that of cinchona.

GENIPA AMERICANA. Berry eatable.

NAUCLEA GAMBEER, *Uncaria gambier*. Gutta gambir is made from it.

GUETTARDIA COCCINEA. Bark very bitter.

PERUVIAN BARK TREES, *Loxa trees*. These are here placed as they appear in the work of Rœmer and Schutze, the discontinuance of which is so much to be regretted.

LOXA TREE, *Jesuit's bark tree, Cinchona officinalis* of Linnæus, *Cinchona Condaminea*. Bark, *Jesuit's bark, Peruvian bark, grey bark, pale bark, cascarilla fina, quinquina gris, C. P. kinakina cinericea, cortex pallidus, cinchonæ officinalis cortex communis, c. lancifoliæ cortex, P. L. cinchona pallida, P. U. S.* Thin, very fine, much rolled, inside rusty fawn, aromatic, breaks clean between the teeth, tonic, resinous, middling bitter, very rich in cinchonine, yields but little quinine.

CINCHONA ROSEA. Bark, *kinkina nova*, thick, woody, long, straight, flat, smooth coat, whitish, inside pale red or flesh colour, mawkish, then acrid, nauseous, infusion and tincture astringent, not bitter, slightly febrifuge.

CINCHONA FUSCA. Bark, *cascarilla asmonich*, chocolate colour on the inside, very styptic, a variety of *C. rosea*.—*Cascarilla pardo, Cinchona aharquillado*, brown with white spots, extremely bitter; another variety.

CINCHONA LANCIFOLIA, *Cinchona lanceolata, C. glabra, C. officinalis* of Vahl. Bark, *crown bark, quinquina orangé, C. P.* rather large, inside fawn, coat brown, rugged, sometimes peeled, split transversely; smells rather spicy, very bitter, tonic, grows darker in water or alcohol, highly esteemed in America, yields much more quinine than cinchonine.—*C. nitida*. A variety highly esteemed in America. *C. angustifolia*. A variety; bark, *pale red bark*, coat whiter, less rugged, and neither so bitter nor astringent.—*Cascarilla lampigna*. A variety of the bark: very thick, woody, in large pieces, not rolled, taste very slight, contains no rosin.

CINCHONA CORDIFOLIA, *Cinchona officinalis* of Gmelin, *C. pubescens, C. tenuis, C. pallescens, C. ovata*. Bark, *yellow bark, quinquina jaune, q. jaune royal, q. calisaya, C. P. cortex flavus, cinchonæ cordifoliæ cortex, cinchonæ officinalis cortex flavus, cinchona flava, P. U. S.* in large pieces, slightly rolled, fine grained, fibres fine, coat thick, and may be separated in flakes, sometimes peeled, inside deep yellow, very bitter and astringent, decoction peach bloom colour; yields much more quinine than cinchonine:—*C. micrantha*. A variety: bark, *new Carthagena bark*, yellow, flat, thin, thready, brittle, coat silvery white, not cracked, decoction pale, slightly bitter and astringent, yields little or no precipitate with infusion of gall nuts, feebly febrifuge.—*C. hirsuta*. A variety: bark, *kinkina Loxa delgada, cascarilla delgadilla*, febrifuge, power strong.—*C. purpurea*. A variety: bark, *mulberry leaf bark*, yellowish brown, in good esteem in America.

CINCHONA OBLONGIFOLIA, *Cinchona magnifolia* of Ruiz, not

of Humboldt and Bonpland, *C. lutescens*, *C. grandifolia*. Bark, red bark, *quinquina rouge*, *C. P. cascarilla amarilla*, *cortex ruber*, *cinchonæ officinalis cortex ruber*, *cinchonæ oblongifoliæ cortex*, *cinchona rubra*, P. U. S. thick, fibrous, brown red or dark fawn, coat rugged, and cracked in various directions, fibrous, antiseptic, used in gangrenous cases, contains quinine and cinchonine in nearly equal quantities.

CINCHONA HUMBOLDTIANA, *C. ovalifolia* of Humboldt. Bark, *cascarilla peluda*, resembles that of *Cosmibuena obtusifolia*, cracked lengthwise, inside clear yellow, bitter, astringent, resinous, is usually mixed with that of *C. glandulifera*.

CINCHONA GLANDULIFERA. Bark, *Havannah bark*, *luanuco*, in larger pieces than that of *C. Humboldtiana*, outside dark fawn, warty and knobby, with perpendicular cracks, inside fawn, fibrous, slightly resinous, bitter, slightly aromatic; frequently mixed with that of *Cosmibuena obtusifolia*.—*Black luanuco*, *cascarilla negrilla*. A darker variety of the bark.

CINCHONA TRIFLORA. Bark, *Jamaica bark*, in a full dose emetic.—*Cinchona laccæfera*. Fresh bark, scraped on the inside, yields a red lake, dried bark, *socchi*, thick, red, slightly rolled, spongy.

COSMIBUENA OBTUSIFOLIA, *Cinchona macrocarpa*, *C. grandiflora*, *C. ovalifolia* of Mutis. Bark, *pale bark*, *female Loxa*, *Lima bark*, *quinquina blanc*, C. P. outside whitish grey, cracked transversely, inside pale fawn, breaks clean, not very resinous nor aromatic, mixed with other bark, especially that of *myroxylon pedicellatum*. *Cinchona longiflora*. A variety: bark, *Guaiana bark*, in long pieces, thick, bitter, scentless.

EXOSTEMMA CARYBÆUM, *Cinchona Caribæa*, *C. Jamaicensis*. Bark, *Caribbee bark*, *quinquina des Antilles*, cinnamon colour, bitter, scentless, cheap.—*Exostemma brachycarpum*. Bark emetic in a full dose: from Jamaica.—*E. floribundum*, *Cinchona floribunda*, *C. montana*, *C. Sanctæ Luziæ*, *C. Luziana*. Bark, *Sainte Lucie bark*, *quinquina piton*, thick, brown, rugged, inside rusty fawn, mostly used externally, being apt to excite vomiting and purging.—*E. coriaceum*, *C. coriacea*, *C. nitida*. Bark highly esteemed in America.

In the generality of Pharmacopœias the grey, yellow, and red barks are enumerated; the Paris Codex adds to them *Quinquina blanc*, *Q. piton*, *Q. des Antilles*, and *Q. orangé*: some of the other barks are used for grinding with these, and reducing their price. The bark of *Macrocnenum corymbosum*, of the *Weinmannia*, called red tan bark, and that of *Funis felleus*, are mixed with these barks.—The chemical habits of these several barks are very different, but they cannot well be examined in Europe. The infusion of some kinds precipitates the infusion of nut galls, as

well as isinglass jelly ; others, only one or other of these tests ; but the chemists vary in their accounts, owing to the mixture of the barks of several species, and their sale under one common name. Medically considered, they are all tonic and febrifuge, and may be given in powder, from ℥j to ʒij every two or four hours, so as to get down an ounce between each fit of intermittent fevers ; of great use in stopping the progress of gangrene : they are also given in infusion and decoction.—The roots of bistort, *Calamus aromaticus*, avens, water avens, and tormentil, oak bark, that of several kinds of willow, horsechestnut, ash, and the sloe bush, mahogany saw-dust, the dried herbs of yellow loosestrife, bugle, water horehound, and self-heal, are used either as substitutes or to reduce the price of the ground bark, as is also the root of *Geum montanum*. The barks of *Pinknea pubescens*, *Unnona febrifuga*, *Swietenia febrifuga*, *Cedrela tuna*, *Magnolia glauca*, *M. acuminata*, *M. tripetala*, *Achras sapota*, *Rubus trivialis*, and *R. villosus* are also used as substitutes.

COFFEE SHRUB, *Coffe*, *Coffea Arabica*. The fresh seeds are febrifuge, diuretic, and tonic ; decoction used for that of Peruvian bark.

IRON WOOD, *Siderodendrum triflorum*. Bark diuretic, stomachic.

NONATELIA OFFICINALIS. Pectoral in infusion.

CADA PILAVA, *Baucudus latifolius*, *Morinda citrifolia* ; — *M. umbellata* ; — *Hydrophylax maritima* ; — *Pattibea coccinea*. Fibres of the roots, *muddi*, *awl*, imported from the East Indies, used for dyeing reds and browns.

104. LORANTHÆ.

Bark astringent ; berries contain a principle analogous to caoutchouc, called bird-lime.

***MISSELTOE**, *Viscum*, *V. album*. Berries very purgative, used to make bird-lime ; leaves antiepileptic in doses of ℥j to ʒj, twice a day.

***MISSELTOE OF THE OAK**, *Viscum quercinum*, *Loranthus Europæus*. Esteemed a sacred plant by our ancestors, hence extirpated by them, but still found plentifully on the oaks in those parts of Europe where the druidical religion was not established : the common misseltoe, *viscum album*, which scarcely, if ever, grows on the oak, is still used as a substitute for it in medicine, and also to deck our churches, and preserve our houses from evil spirits.

MANGROVE, *Rhizophora mangle*. Fruit and bark used in tanning ; imported from the West Indies.

BRUGUIERA GYMNORHIZA. Fruit, leaves, and even bark eaten.

105. CAPRIFOLIACEÆ.

***LINNÆA BOREALIS.** Used in rheumatism and gout; astringent and diuretic.

WOOD-BINE**, *Periclymenum*, *Caprifolium*, *Matrisylva*, *Lonicera periclymenum*;—HONEY SUCKLE**, *Lonicera caprifolium*. Leaves used in detersive gargles; flowers antiasthmatic.

***WAYFARING TREE**, *Pliant mealy tree*, *Viburnum lantana*. Berries drying, astringent; bark of the root made into bird-lime.

CASHIO-BERRY BUSH, *Perygua*, *Cassine peragua*, *Viburnum cassinoides*. Leaves purgative, sometimes emetic or diaphoretic, used as a specific in diabetes.

WILD BAY, *Laurus tinus*, *Viburnum tinus*. Berries purge violently.

***GELDRES ROSE**, *Viburnum opulus*. Leaves and berries refreshing, and used in astringent gargles.

***ELDER**, *Sambucus*, *S. nigra*. Second bark, gr. v to ʒj, very active, antihydrotic; leaves a nauseous purgative; flowers diaphoretic, useful in disorders of the chest, discussive and attenuant; berries used to flavour sugar wine, poisonous to poultry; dry berries, *grana actes*, useful in dropsy.

WHITE-BERRIED ELDER, *Sambucus nigra virescens*. Flowers used to give wine the flavour of Frontignac.

AMERICAN ELDER, *Sambucus Canadensis*. Berries, *Sambucus*, P. U. S. used as the former.

***DWARF ELDER**, *Ebulus*, *Sambucus ebulus*. Root, ʒjss, a strong purge; leaves used in poultices for the gout and piles; berries used to dye blue, and also to make wine.

MOUNTAIN ELDER, *Sambucus racemosa*. Narcotic.

***IVY**, **HEDERA ARBorea**, *H. helix*. Leaves used internally in atrophy, and to dress issues; also boiled in wine as a wash to kill vermin; berries purge; the trunk yields a gum resin.

CORNELIAN CHERRY, *Cornus*, *C. mascula*. Fruit very astringent, useful in loosenesses.

***DOG-WOOD**, *Gatter tree*, *Female cornel tree*, *Cornus fœmina*, *C. sanguinea*. Seeds yield oil, like those of the former species; wood used for making charcoal for gunpowder.

ROUND-LEAVED DOG-WOOD, *Cornus circinata*;—*Swamp dog-wood*, *Cornus sericea*;—*American dog-wood*, *C. florida*. Barks of the roots used as poultices.

***TRIOSTEUM PERFOLIATUM**. Root, *fever root*, *triosteum*, P. U. S., emetic and cathartic; bark of the root bitter, tonic.

106. ARALIACEÆ.

FALSE SARSAPARILLA, *Aralia nudicaulis*; — *A. racemosa*. Roots bitter, mixed with those of sarsaparilla.

ANGELICA TREE, *Aralia spinosa*. Bark astringent; berries used in rheumatism and cholera.

GINSENG, *Panax quinquefolium*. Root cordial, alexiterial, and aphrodisiac; dose ʒj—ij, chewed, or sliced and made into tea: often confounded with nin sing. From North America.

PANAX UNDULATA. Woods, barks, leaves, flowers, and fruit aromatic.—*Panax fruticosum*. Herb diuretic.

107. UMBELLIFERÆ.

Aromatic, and if they grow in water, poisonous; roots of many contain a saccharine principle; an essential oil is generally contained in the vittæ of the seeds.

ANISE, *Anisum*, *Pimpinella anisum*. Seeds one of the four great hot ones, cephalic, stomachic, carminative, diuretic, and emmenagogue. Our summers not being sufficiently warm to ripen the seeds, they are usually imported.

***BURNET SAXIFRAGE**, *Pimpinella saxifraga*. Root chewed relieves the toothach; seeds are opening, detergent, and lithontriptic; ʒj in powder, or ʒij in infusion.

***HERB GERARD**, *Gout wort*, *Ash weed*, *Ægopodium podagraria*. Root and leaves used in the gout: young leaves used in salads.

***CARAWAY**, *Carui*, *Carum*, *Carum carui*. Seeds, *caraway seeds*, *carui semina*, stomachic, carminative; root sweet, nourishing, and better eating than parsneps.

***SMALLAGE**, *Celery*, *Apium*, *Eleoselinum*, *Apium graveolens*. Root opening, diuretic, used in jaundice and the gravel; seeds more active; blanched stalks eaten in salads.

***PARSLEY**, *Petroselinum vulgare*, *Apium petroselinum*. Root diuretic; leaves used as a seasoning to meat, resolve coagulated milk in the breasts, but supposed to produce epilepsy and inflammation of the eyes; seeds carminative.

***FENNEL**, *Fœniculum vulgare*, *Anethum fœniculum*. Seeds aromatic, hot, carminative; roots opening; leaves diuretic, used as seasoning to fish.

SWEET FENNEL, *Fœniculum dulce*, *Anethum segetum*. Blanched stem used as a potherb; seeds, *finocchio*, *fœniculi semina*, carminative, used in soups; imported from Italy.

***DILL**, *Anethum*, *A. graveolens*. Seeds discutient, galactopoietic, stopping vomiting and the hiccough; leaves ripen tumours.

***WOMUM**, *Anethum sowa*. Seeds carminative.

*ALEXANDERS, *Smyrniun, Hipposelinum, S. olusatrum*. Root and herb opening, emmenagogue.

COMMON BISHOP-WEED, *Ammi vulgare, A. majus*. Seeds sold for those of ammi verum.

*PARSNEP, *Pastinaca hortensis, P. sativa*. Root nutritive, but its strong smell renders it disagreeable to many; sugar and wine are made from it; seeds aromatic.

GUM PARSNIP, *Pastinaca opopanax*. Root yields, by incision, opopanax.

THAPSIA VILLOSA. Root purgative; may be used for jalap.

THAPSIA ASCLEPIUM;—*T. garganica*;—*Seseli turbith*. Roots acrid, and purge upwards and downwards very violently.

SESELI SAXIFRAGUM;—*Bastard spignel, Seseli montanum*;—*S. glaucum*. Roots purgative, not so acrid as *S. turbith*, or the *Thapsia*.—*S. leucospermum*. Root resinous, aromatic.

FRENCH HART WORT, *Seseli tortuosum*;—*S. hippomarathrum*. Seeds stomachic, aperitive; roots anti-asthmatic.

*MASTER WORT, *Imperatoria, Astrantia, Imperatoria obstruthium*. Root very restorative after fatigue; formerly chewed by military officers and soldiers in forced marches and other fatiguing duties.

*WILD CICELY, *Cow-weed, Cicutaria vulgaris, Chærophyllum sylvestre*. Strong smelling, acrid, diuretic, dyes woollen yellow and green.

CHERVIL, *Chærophyllum sativum*. Plant used as a potherb.

HEMLOCK CHERVIL, *Chærophyllum cicutaria*. Root poisonous, as well as the leaves.

*MUSK CHERVIL, *Chærophyllum aromaticum*;—*CHERVIL, *Chærefolium, Scandix cerefolium*;—SWEET CICELY, *Myrrhis, Scandix odorata*. Very resolving, diuretic, lithontriptic.

*VENUS COMB, *Shepherd's needle, Pecten Veneris, Scandix pecten*. Young shoots eaten raw or boiled.

*CORIANDER, *Coriandrum sativum*. Herb eaten as a salad too frequently occasions fatuity; seeds, *coriandri semina*, stomachic; cover the taste and prevent the griping of senna. *Semina coriandri præparata*. Seeds steeped in vinegar for a day and night, then dried, are milder.

*SPIGNEL, *Meu, Meum, Athamanta meum, Æthusa meum*. Root gummy, resinous, carminative.

*LESSER HEMLOCK, *Fools' parsley, Cicutaria fatua, Æthusa cynapium*. Poisonous, liable to be mistaken for parsley, but is inodorous and insipid.

*LONG-LEAVED WATER PARSNIP, *Sium erucaefolia, Cicuta virosa*;—*MARSH HEMLOCK, *Water hemlock, Phillandrium, P.*

aquaticum;—*P. nuttalliana*;—*WATER DROP-WORT, *Cenanthe aquatica*, *C. fistulosa*;—*HEMLOCK DROP-WORT, *C. cicutæ folia*, *C. crocata*. Acrid, poisonous, especially the roots, emetic, and act upon the nervous system: used externally are powerfully resolvent, anodyne, and used in scrofulous and scirrhus tumours, and in inflammation of the penis; juices yellow, poisonous.

**CENANTHE PEUCEDANIFOLIA*;—*Parsley water drop-wort, *Cenanthe pimpinelloides*. Roots used as potherbs.

*HEMLOCK, *Cicuta*, *Conium maculatum*. Very poisonous in warm countries, but less active in cold ones, powerfully narcotic, used in many obstinate disorders, as scirrhus cancer, chronic rheumatism, ill-conditioned ulcers, and glandular tumours; dose of the dried leaves, *cicutæ folia*, *conii folia*, in powder, gr. j, gradually increased to ℥j, every four hours, to be exhibited with caution, especially when a fresh parcel of powder is used: seeds, *conii semina*, less uncertain in their effects. *Official preparation*.—Tinct. conii, D. Succus spissatus con., D. E. Extractum conii, L. Unguentum conii, D. Cataplasma conii, D.

CUMIN, *Cuminum*, *Cuminum cyminum*. Seeds, *cumini semina*, aromatic, carminative; imported from Sicily and Malta.

WILD CUMIN, *Cuminum sylvestre*, *Lagoecia cuminoides*;—Macedonian parsley, *Petroselinum Macedonicum*, *Bubon Macedonicum*. Seeds carminative.

BUBON GALBANUM;—*B. gummiiferum*. Yields galbanum. *Official preparation*.—Pil. galb. comp., L. D. Tinct. galb., D. Pil. foetid. comp., E.

AMMI VERUM, *Sison ammi*;—*COMMON AMOMUM, *Bastard stone parsley*, *Amomum vulgare*, *Sison amomum*. Seeds warm, aromatic; used in Venice treacle.

*CORN HONE-WORT, *Sison segetum*. Useful in indolent tumours.

SKIBRET, *Sisarum*, *Sium sisarum*. Root used as a potherb, stomachic; a specific against the bad effects of quicksilver; sugar is made from it.

NIN SING, *Ninzen*, *Nisi*, *Sium Ninsi*. Alexiterial and aphrodisiac, and thought to lengthen life; frequently confounded with ginseng, as in the Pharm. Lond. 1720.

*GREAT WATER PARSNEP, *Pastinaca aquatica*, *Sium latifolium*;—UPRIGHT WATER PARSNEP, *Sium berula*. Roots poisonous; leaves aperitive, diuretic, antiscorbutic.

*CREEPING WATER PARSNEP, *Sium nodiflorum*. Juice used in cutaneous diseases; dose for children iij tea-spoonfuls twice a-day, and for adults ℥iij every morning.

*ANGELICA, *A. archangelica*. Root stomachic, carminative, aperitive, diaphoretic, useful in typhus fever. Seeds aromatic.

CANDIED ANGELICA, *caules angelicæ conditi*. The fresh stalks are boiled in water to take away the bitterness, and some of the strong scent, then put into syrup boiled to a candy height till quite dry, taken out and dried; cordial, aphrodisiac.

AMERICAN ANGELICA, *Angelica*, P.U.S., *A. atropurpureum*;—***WILD ANGELICA**, *A. sylvestris*. The same, but weaker.

***LOVAGE**, *Levisticum*, *Ligusticum levisticum*. Root, leaves, and seeds aromatic, stomachic, and diaphoretic; stem yields English opopanax.

GREAT BROAD-LEAVED HEMLOCK, *Seseli Peloponnense*, *Ligusticum Peloponnesiacum*. Root and seeds used in nervous diseases.

***CORNISH LOVAGE**, *Ligusticum aquilegifolium*, *L. Cornubiense*. Root exudes a resin.

HART WORT, *Seseli*, *Siler montanum*, *Laserpitium siler*,—*L. Latifolium*;—*L. angustifolium*;—*L. chironium*. Roots used in scrofula, spitting of blood, and piles.

*** *COW PARSNEP**, *Sphondylium*, *Heracleum sphondylium*. Root and leaves emollient; seeds a specific in hysteric spasms; juice of the head renders the hair curly; young shoots substituted for asparagus: exudes sugar.

MASTER WORT, *Heracleum lanatum*. Root, *heracleum*, P.U.S. emollient.—*Heracleum panax*, and some other species, are added to fermented liquors, and distilled by the northern nations.

HERACLEUM GUMMIFERUM. Yields gum ammoniac.

FENNEL GIANT, *Ferula*, *F. communis*. Seeds carminative; green pith of the stem used in spitting of blood.

SMALL FENNEL GIANT, *Ferula*, *F. galbanifera*, *F. Ferulago*. Seeds found in galbanum produced this plant.

FERULA ASSAFŒTIDA. Old roots yield assafœtida, young roots roasted and eaten; leaves eaten as greens. Some seeds found in sagapenum produced an unknown fecula.

FERULA PERSICA. Also said to yield gum ammoniac.

***HOGS FENNEL**, *Sulphur wort*, *Hore strange*, *Peucedanum*, *P. officinale*. Root very diuretic, attenuant, expectorant, aperitive; wounded it exudes a gum resin.

***MEADOW SAXIFRAGE**, *Saxifraga vulgaris*, *Peucedanum silaus*. Root aperitive, used in calculous cases.

CACHRYS LIBANOTYS. Root very heating and deterrent; used externally in piles.—*C. odontalgica*. Used in toothach.

***SAMPHIRE**, *Crithnum*, *Fœniculum maritimum*, *Herba Sancti Petri*, *Crithnum maritimum*. Excites the appetite.—*Pickled samphire*. Used for sauce.

MOUNTAIN PARSLEY, *Petroselinum montanum*, *Athamanta orco-*

selinum;—*BLACK GENTIAN, *Gentiana nigra*, *A. libanotis*. Diaphoretic, diuretic, used in calculus.

DAUCUS CRETICUS, *Athamanta Cretensis*. Seeds odorous, carminative, diuretic, antihysterical, and nervine.

SELINUM CARUIFOLIA;—*Milky parsley*, *S. sylvestre*. Roots alexiterial.

*BULBOCASTANUM, *Bunium bulbocastanum*. Tubers, *earth nut*, *kipper nut*, *pig nut*, *haugh nut*, very nourishing, stimulant; useful in bloody urine and spitting of blood: sold for salep roots.

*CARROT, *Daucus nostras*, *D. vulgaris*, *D. carota*. Roots *dauci radix*, saccharine, alimentary; externally to carcinomatous and foul ulcers: a sugar is made from them.

WILD CARROT, *Daucus sylvestris*, *D. visnaga*, *Ammi visnaga*, *V. daucoides*. Seeds, *dauci semina*, P.L. diuretic, antipleuritic; rays of the umbel *Spanish toothpicks*.

DAUCUS GUMMIFER. Yields one sort of opopanax.

ADJOWAEN, *Ammi Copticum*, *Daucus Copticus*, *Bubon Copticum*. Seeds carminative; imported from the East Indies.

*GREAT BASTARD PARSLEY, *Caucalis latifolia*;—**Fine-leaved bastard parsley*, *Caucalis daucoides*;—*C. leptophylla*;—*C. grandiflora*. Are all diuretic.

*HEDGE PARSLEY, *Hens foot*, *Caucalis minor*, *Tordylium anthriscus*;—**Harts wort*, *Tordylium officinale*. Roots and seeds diuretic.

ORIENTAL PICK-TOOTH, *Gingidium*, *Arteria squamata*. Leaves diuretic, stomachic, used as a potherb, or eaten raw: rays of the umbel used as toothpicks.

*THOROUGH WAX, *Perfoliata*, *Bupleurum perfoliatum*. Vulnerary, used externally in tumours.

*HARES EAR, *Auricula leporis*, *Bupleurum rotundifolium*, and the other species of the same genus, are aperitive, discussive, and diuretic.

SHRUBBY HART-WORT, *Seseli Æthiopicum*, *Bupleurum fruticosum*. Seeds carminative, very acrid and odorous.

BLACK MASTER-WORT, *Astrantia major*;—*A. minor*. Roots used in scirrhus of the spleen, and mania.

*SANICLE, *Sanicula Europæa*. Leaves vulnerary, cleansing.

*MARSH PENNY-WORT, *White rot*, *Hydrocotyle vulgaris*;—BUTTON SNAKE-WEED, *Eryngium aquaticum*: (root, *eryngium*, P.U.S.)—*COMMON ERYNGO, *Eryngium campestre*;—*ERYNGO, *Sea holly*, *E. maritimum*. (Shoots boiled eaten as asparagus.)—*Three-leaved eryngo*, *E. tricuspdatum*. Roots aphrodisiac, diuretic, sudorific, may be used for contrayerva.—*Candied eryngo*, *Radix eryngii condita*. Roots slit, washed in cold water, and then put into the syrup.

STINKING WEED, *Eryngium foetidum*. Leaves, in infusion, anti-hysteria, either internally or in clysters.

108. CUNONIACEÆ.

RED TAN, *Weinmannia* Bark astringent, frequently mixed with that of the Loxa tree, or Peruvian bark.

109. SAXIFRAGEÆ.

*WHITE SAXIFRAGE, *Saxifraga alba*, *S. granulata*;—*Rue-leaved whitlow-grass, *Paronychia*, *Saxifraga trydactylites*;—Narrow-leaved saxifrage, *S. cotyledon*;—*London pride, *S. geum*, and most other species of this genus, are aperitive, diuretic; useful in jaundice, obstructions, and scrofula.

CHRYSOSPLENIUM OPPOSITIFOLIUM;—*GOLDEN SAXIFRAGE, *Saxifraga aurea*, *Chrysosplenium alternifolium*. Aperitive, diuretic, anti-asthmatic, and pectoral.

*TUBEROUS MOSCHATTEL, *Adoxa moschatellina*. Has nearly the same qualities.

HEUCHERA AMERICANA. Root, *alum root*, *heuchera*, P. U. S. astringent, used externally in cancer.

110. CRASSULACEÆ.

The thick juicy leaves are used outwardly as cooling and astringent. Many of them contain malate of lime.

*NAVEL WORT, *Umbilicus Veneris*, *Cotyledon*, *C. umbilicus*. Refreshing, detersive, cooling, very diuretic, useful in inflammations of the skin.

*ROSE WORT, *Rose root*, *Rhodia radix*, *Rhodiola rosea*. Root cephalic, astringent.

*ORPINE, *Live long*, *Telephium*, *Crassula*, *Fabaria*, *Sedum telephium*. Astringent, easing pain in fresh wounds or in old ulcers; eaten as a potherb, leaves a slight but disagreeable irritation in the throat.

EVERGREEN LESSER HOUSE-LEEK, *Sedum anacampseros*;—Annual white house-leek, *Sedum cepæa*. Equally cooling, astringent, and diuretic.

*LESSER HOUSE-LEEK, *Prick madam*, *Sedum minus*, *S. album*. Qualities the same; used in salads.

*WALL PEPPER, *Stone crop*, *Sedum minimum*, *Illecebra*, *Sedum acre*. Emetic, cathartic, detersive in cancers and scrofula, anti-scorbutic: externally rubefacient.

*COMMON GREAT HOUSE-LEEK, *Sedum majus*, *Sempervivum*, *Semp. tectorum*. Cooling, astringent; used externally to corns.

111. GROSSULARIÆ.

The fruits of this order are eatable, acidulous, and cooling.

***RIBES**, *Ribesia*, *Ribes rubrum*. Fruit, *red currants*, *garnet berries*, acid, cooling; juice of the fruit with sugar drank as lemonade or orgeat; and made into wine.—*White currants*. A variety; fruit less acid, juice made into wine.

***BLACK CURRANTS**, *Quinsey berries*, *Ribes nigrum*. Odour similar to that of bugs; leaves, in infusion, aperitive, diuretic, used in gargles, young leaves substituted for tea; fruit aperitive, used in calculous affections; the juice boiled made into wine.

***GROSSULARIA**, *Uva crisper*, *Ribes grossularia*, *R. uva crisper*. Berries, *gooseberries*, *berries*, used as sauce for mackerel and other fish; astringent, but when very ripe, laxative; make wine and vinegar; seeds washed and roasted, substituted for coffee.—*Ribes triste*. Berry black, used to colour wines.—*R. punctatum*; —*R. Alpinum*; —*R. fragrans*; —*R. viscosum*; —*R. macrobotrys*; —*R. albinervium*. Fruit eaten.

112. NOPALEÆ.

INDIAN FIG, *Prickly pear*, *Cactus opuntia*, *Opuntia vulgaris*. Fruit sweetish, diuretic; plants very cooling; juice contains a red colouring principle, which colours the urine of those that eat the fruit.—*Cactus coccinillifer*, *Opuntia coccinillifer*. The food of the grana fina cochineal.

CACTUS FICUS INDICA, *O. fic. Indica*. The food of the grana sylvestria cochineal.

113. TAMARISCINEÆ.

***TAMARISC**, *Tamariscus*, *T. Gallica*; — *German tamarisk*, *Tamariscus Germanica*; — *T. Africana*. Ashes contain sulphate of soda. A species of tamarisk affords Arabian manna.

114. PARONYCHICEÆ.

***SEA CHICKWEED**, *Arenaria*, *Polycarpon tetraphyllum*. Herb applied to whitlows.

***VERTICILLATE KNOT-GRASS**, *Corrigiola*, *Illecebrum verticillatum*. Refrigerant and astringent.

***RUPTURE WORT**, *Herniaria glabra*. Rather saltish, astringent, diuretic; juice removes specks in the eye.

***STRAP WORT**, *Corrigiola littoralis*. Herb cooling.

***ANNUAL KNAWELL**, *German knot-grass*, *Scleranthus annuus*. Diuretic, astringent, the vapour arising from a decoction of it is used in the toothach.

*PERENNIAL KNAWELL, *Scleranthus perennis*. *Coccus Polonicus* is found upon its roots.

ACHRYANTHES ASPERA. Herb diuretic.

115. PORTULACÆ.

PURSLANE, *Portulaca*, *P. oleracea*. Used as a potherb, cooling, useful in scurvy, heat of urine, and bilious disorders; seeds vermifuge.

JAMAICA PURSLANE, *Portulaca pilosa*. In salads, diuretic; as also its expressed juice.

TELLINUM UMBELLATUM. Flowers used as a cosmetic.

CLAYTONIA PERFOLIATA, *C. Cubensis*. Used both as a salad and a potherb.

116. FICOIDEÆ.

ICE PLANT, *Mesembryanthemum crystallinum*. Contains acetate of potash; like the other species of this genus it is very mucilaginous, and useful in inflammatory and bilious fevers.—*M. edule*. Esculent.—*M. Copticum*. Burned for barilla,—*M. nodiflorum*. Used in the preparation of Morocco leather; and burned for barilla.

TETRAGONIA EXPANSA, *Demidovia tetragonoides*. Antiscorbutic, cooling, used as a potherb.

SESUVIUM PORTULACASTRUM. Used as a potherb.

REAUMURIA VERMICULATA. Exudes common salt mixed with saltpetre.

117. ONAGRARIÆ.

*TREE PRIMROSE, *Oenothera biennis*. Root cleanses foul ulcers, and is eaten in salads.

ROSE-BAY WILLOW-HERB, *Persian willow*, *French willow*, *Epilobium angustifolium*. Suckers eatable; an infusion of the plant intoxicates; down of the seeds, mixed with cotton or fur, has been woven or felted.

*BROAD SMOOTH-LEAVED WILLOW-HERB, *Epilobium montanum*; —*Square-stalked willow-herb, *E. tetragonum*. And the foreign species are used to cleanse foul ulcers.

JUSSIEUA PERUVIANA. Leaves emollient.

*ENCHANTERS' NIGHT-SHADE, *Circea Lutetiana*. Resolvent, vulnerary; formerly supposed to possess wonderful properties in regard to magic and sorcery.

WATER CALTROPS, *Tribulus aquaticus*, *Trapa natans*. Herb cooling: nuts, *nuces aquaticæ*, farinaceous and nourishing.

ESCALLONIA RESINOSA. Twigs covered with resin.

119. COMBRETACEÆ.

Bark generally astringent.

TERMINALIA CHEBULA. Fruit, *hurr nut, ink nut, chebolic myrobalans, Myrobalani chebuli*. Galls, on the leaves, *aldecay*, excellent for dyeing.

TERMINALIA BELLERICA. Fruit, *belleric myrobalans, myrobalani bellerici*. Taken from ʒvj to ʒjss, are astringent.

YELLOW MYROBALANS, Myrobalani citrini; — *Pickled myrobalans*. The yellow myrobalans preserved in brine.

INDIAN BLACK MYROBALANS, Myrobalani Indici. Fruits of the same genus of plants, but are rather purgative.

VARNISH TREE OF CHINA, Terminalia vernix. Produces the resin used in varnishing the Indian cabinets.—*T. benzoe*. Shrub milky, yields benzoin.

ADAMARAM, Terminalia catappa. Fruit, *Indian almond*, nourishing, used by the sick; yields an oil. The kernels of several other species are eaten.

120. MYRTINEÆ.

Are generally aromatic.

GUAVA TREE, Bay plum, psidium pyriferum. Young leaves, buds, and fruit, in decoction, astringent: marmalade of the fruit the same.—*P. pomiferum*. Fruit esculent.

KYA PUTTY TREE, Melaleuca leucodendron. Leaves yield an essential oil (cajeput oil).

MYRTLE, Myrtus communis. Leaves odoriferous, cephalic, astringent; bark and leaves used in tanning: berries used in dyeing, and to form an extract; flowers and leaves yield an essential oil by distillation; and the berries a fixed oil, *myrteum*.

MUSK MYRTLE, Myrtus ugni. Root used in dysentery; leaves used as tea.—*M. luma*. Berries used to make wine; leaves make a very cordial tea; root astringent.—*M. cheken*. Juice, from the green wood, used in glaucoma.

ALLSPICE TREE, Myrtus pimenta. Fruit dried before it is thoroughly ripe, *allspice, Jamaica pepper, clove pepper, Piper Jamaicaense, Pimenta, Pimentæ baccæ, Piper odoratum, P. caryophyllatum*, is heating, aromatic; used as a sauce, and in liqueurs; yields an essential oil. *Lichen pustulatus* may be used to reduce the ground spice.

CLOVE BERRY TREE, Myrtus caryophyllata. Bark, *clove bark, canelle giroflée, Canella caryophyllata, Cassia caryophyllata*, aromatic, cephalic; fruit, *carpobalsamum, amomum*, agree in

qualities with cloves.—*M. acris*;—*M. fragrans*. Fruit aromatic, used for spice.

CLOVE TREE, *Eugenia caryophyllata*. Flower buds of the tree before they open, dried and smoked, *cloves*, *girofle Anglais*, *Caryophyllus aromaticus*, *Caryophylli*, hot, stimulating, and aromatic, dose gr. v to gr. x. Imported from the West Indies, in chests. An inferior kind, from Cayenne, *girofle de Cayenne*.—*Preserved cloves* are also imported.—The ripe fruit, *mother cloves*, *fusses*, *antophylli*, large, less aromatic.—*Preserved mother cloves*. Stomachic and antispasmodic. The footstalks, *Griffes de girofle*, used to flavour distilled spirit. *Official preparations*.—Infus. caryophyll., *D. L.* Infus. aurant. comp., *D.* Mist. ferri aromat., *D.* Vinum opii., *L. D.* Confect. aromatica, *D. L.* Electuarium scammonii, *D. L.*

JAMBOS. *Eugenia jambos*. Fruit eatable, aromatic.

LEPTOSPERMUM SCOPARIUM. Leaves used as tea.

POMEGRANATE TREE, *Punica granatum*. Fruit, *pomegranate*, *mala Punica*, *granata*, very cooling, antibilious, astringent, cordial. Rind of the fruit, *pomegranate peel*, *granati cortex*, *malacorium*, astringent, detersive; vermifuge; in powder, ʒss to ʒj, in infusion to ʒss; used in tanning: from the south of Europe; double flowers of the wild trees, *balaustia*; of the cultivated trees, *cytini*, tonic, astringent.

SYRINGA, *Mock orange*, *Philadelphus coronarius*. Flowers strong scented; leaves detersive, used as tea.

ALANGIUM DECAPETALUM;—*A. hexapetalum*. Roots aromatic, cathartic.

LECYTHIS ZABUCAGO. Seeds, *Brazil nuts*, kernels eatable.

ROBINSONIA MELIANTHIFOLIA, *Touroulin Guajanensis*. Berry edible.

BROWN GUM TREE, *Eucalyptus resinifera*, *Metrosideros gum-mifera*. Yields the brown gum or Botany-bay kino.—*Eucalyptus Malaccensis*. Bark used in dysentery.

121. MELASTOMÆ.

MELASTOMA HIRTA. Leaves powdered used to sprinkle on ulcers; berries yield a juice like that of myrtle berries; also used for ulcers.

MELASTOMA SUCCOSA;—*M. alata*. Juice used to wash wounds. The berries of various species of melastoma dye a black, which is very lasting, and are many of them eatable.

TOCOCA GUAIANENSIS. Berries eatable.

122. SALICARIÆ.

***PURPLE-SPIKED WILLOW HERB**, *Lysimachia purpurea spicata*,

Lythrum salicaria. Ophthalmic, astringent, used in the winter diarrhoeas of northern countries; also as tea, and to make beer.

HENNA, *Lawsonia inermis*. Used to colour the nails of females of a reddish colour.

CALYPLECTUS ACUMINATUS. Leaves bitter, affording a yellow dye.

HANCHINOL, *Ginoria* Juice, ℥iij, is diaphoretic, diuretic, and cathartic: is used in syphilis.

123. POMACEÆ.

Fruit edible, but some require to become rotten ripe, as otherwise their astringency is too predominant.

APPLE TREE, *Malus*, *Pyrus malus*. Fruit of the wild *crab*, *malus sylvestris*, rough to the taste, contains an astringent principle, and much malic acid: fruit of the cultivated *apple*, *malus*, sweet, eatable.

RENNETT APPLE, *poma renettia*, C. P. the sort to be used in pharmacy.

POMA NIVALIS. Fruit, when ripe, extremely sweet.

***PEAR TREE**, *Pyrus*, *P. communis*. Fruit, *pear*, *pyrus*, nearly the same as that of the apple, but becomes much sweeter by cultivation: yields sugar.

QUINCE TREE, *Cotonea*, *Cydonia*, *Pyrus cydonia*. Fruit, *quince*, *cydonia*, rough, astringent, binding, very stomachic; seeds, *cydonia semina*, very mucilaginous.

***WHITE BEAM**, *Wild pear*, *Cratægus aria*;—**Wild service tree*, *Sorb tree*, *Cratægus torminalis*. Fruit, *wild service*, *sorb*, *sorbus*, ripened upon straw until soft, eatable, astringent, useful in fluxes.

AZAROLE, *Cratægus azarolus*. Fruit of a sharpish taste, saccharine, refreshing.

***HAWTHORN**, *White thorn*, *May*, *Spina alba*, *Cratægus oxyacantha*. Flowers odoriferous; fruit, *haws*, *cenellæ*, yields by fermentation a refreshing acidulous liquor.

***DUTCH MEDLAR**, *Mespilus Germanica*. Fruit extremely astringent, even when ripe; leaves and seeds used in detersive gargles.

BASTARD QUINCE, *Mespilus cotoneaster*;—*Evergreen thorn*, *M. pyracantha*. Fruits astringent.

***SERVICE TREE**, *Sorbus domestica*. Fruit rough, very astringent, even when softened.

MOUNTAIN ASH, *Quicken*, *Roan*, *Fraxinus sylvestris*, *Sorbus aucuparia*. Fruit astringent, dried and powdered makes a kind

of bread; infusion acidulous; seeds yield oil; bark tans better than oak bark.

124. ROSACEÆ.

*PALE RED ROSE BUSH, *Rosa rubra* P. L. *Rosa pallida* C. P. *R. Gallica*. Petals, *flores rosarum rubrarum, rosæ Gallicæ petala*, less odoriferous than those of the Provins rose, powder ʒj laxative. *Officinal Preparations*.—Mel. rosæ, D. L. Conserva rosæ, D. L. E. Infus. rosæ, L. E. D.

*DOG ROSE BUSH, *Wild briar, Cynorrhodon, Rosa canina*. Root has been recommended in hydrophobia, a decoction of it used in dysentery; fruit, *hips, cynosbatus*, lithontriptic, opening; the pulp, *rosæ caninæ pulpa*, makes a fine conserve; excrescences made by an insect, *bedeguar, spongia rosæ*, used in calculous diseases; petals cathartic, used for jalap. *Officinal preparation*.—Conserva rosæ caninæ, L.

*ROSA SYSTYLA;—*R. arvensis*. Hips fine flavoured.

*SWEET BRIAR, *Rosa eglanteria, R. rubiginosa*. Leaves odoriferous; substituted for tea.

*HUNDRED-LEAVED ROSE, *Rosa flore albo pleno, R. centifolia*. Petals, *flores rosarum albarum, rosæ centifoliæ petala*, astringent, purgative, yield an odoriferous distilled water, and butter of roses. *Officinal preparations*.—Aqua rosæ, D. L. E. Syrup. rosæ, D. L.

*EVERGREEN ROSE, *Rosa sempervirens*. Petals musky, very purgative; used for distilling attar of roses.

WHITE ROSE BUSH, *Rosa alba vulgaris major, R. alba*. Petals smell less agreeable than those of the hundred-leaf rose, more purgative.

DAMASK ROSE BUSH, *Rosa moschata, R. Damascena*. Petals, *flores rosarum Damascenarum*, pale red, good scent, more purgative than the other.

PROVINS ROSE, *Rose de Provins, Rosa rubra, C. P. R. Provincialis*. Petals deep red, scent powerful, which they preserve after drying; astringent, tonic, cephalic; may be kept for a year or eighteen months, by being closely pressed together; some prefer iron vessels for this purpose.—*R. mollissima*. Fruit edible.

125. SANGUISORBEÆ.

*SMALL BURNET, *Pimpinella, Sanguisorba, Poterium sanguisorba*. Used in salads; cordial.

*AGRIMONY, *Eupatorium Græcorum, Agrimonia, A. eupatorium*. Herb used in gargles; also as tea.

*PARSLEY PIERT, *Aphanes arvensis*. Diuretic.

*LADIES' MANTLE, *Bear's foot, Alchemilla vulgaris*;—*Alpine

ladies' mantle, A. Alpina. Very astringent, used in decoction as a bath to render women's breasts firm.

126. POTENTILLEÆ.

***TORMENTIL**, *Septfoil, Tormentilla, Hetaphyllum, Tormentilla erecta.* Root, *tormentillæ radix*, very astringent, febrifuge, and not stimulant; dose ʒj to ʒij.

***CINQ-FOIL**, *Five-leaved grass, Pentaphyllum, Quinquefolium, Potentilla reptans.* Bark of the root used as a gargle for loose teeth; leaves febrifuge, taken as tea.

WILD TANSIE**, *Silver weed, Argentina, Potentilla anserina*; —Hoary cinq-foil**, *Potentilla argentea*; —***Purple marsh cinq-foil**, *Pentaphyllum rubrum palustre, Comarum palustre.* Febrifuge; root of this last dyes a dirty red.

***STRAWBERRY PLANT**, *Fragaria, F. vesca.* Roots aperitive; fruit, *strawberries*, cooling, opening, diuretic, dissolves the tartar off the teeth, diaphoretic, used in calculous gout and consumption.

***BARREN STRAWBERRY**, *Fragaria sterilis.* Root astringent; dyes red.

AVENS**, *Herb bennet, Caryophyllata, Geum urbanum*; —WATER AVENS**, *Geum rivale.* Roots scented like cloves, sudorific, tonic, antipodagric, stomachic, febrifuge; may be substituted for bark: when young, they give a pleasant flavour to ale, and prevent it from growing sour.—*Geum montanum.* Root, *pink root*, imported from the south of Europe; used for the same purposes as avens.

***RASPBERRY BUSH**, *Rubus Idæus.* Fruit, *raspberry, hind-berry*, cooling, cordial, communicates a fine flavour to liqueurs: leaves form astringent and detersive gargles.

***DEWBERRY BUSH**, *Small bramble, Rubus cæsius.* The same but sourish.

***KNOTBERRY BUSH**, *Chamæmorus, Rubus chamæmorus.* Fruit, *cloudberry, knotberry*, acerb, astringent, dyes a bluish purple; leaves and tops astringent.

***BLACKBERRY BUSH**, *Bramble, Rubus vulgaris, R. fruticosus.* Fruit, *blackberry*, rather acerb; eatable; but soon sickening; green twigs used in dyeing black; root used in chin-cough.

AMERICAN DEWBERRY, *Rubus trivialis*; —*American black-berry, Rubus villosus.* Bark of the roots febrifuge, used for bark.

***STONE BRAMBLE**, *Chamærubus, Rubus saxatilis.* Berry esculent.

127. ULMARIÆ.

*MEADOW SWEET, *Queen of the meadows, Ulmaria, Regina prati, Spiræa ulmaria.* Herb sudorific, astringent, antispasmodic; flowers give a fine flavour to warm water.

*DROP WORT, *Filipendula. Spiræa filipendula.* Herb astringent, diuretic; roots dried and powdered, used for bread in famines.

SPIKED WILLOW, *Spiræa, S. salicifolia.* Seed astringent.—*Hard hack, Spiræa tomentosa.* Root, *spiræa,* P. U. S.

AMERICAN IPECACUANHA, *Indian physic, Gillenia trifoliata, Spiræa trifoliata.* Bark of the root, *Gillenia,* P. U. S. gr. xx, emetic, tonic.

MAURITIUS IPECACUANHA, *Sudia heterophylla.* Bark emetic.

128. AMYGDALÆ.

NOELI-TALI, *Antidesma alexitera.* Fruit cooling; leaves antiseptic.

BRASILETTO, *Pseudo-brasilium, Picramnia triandra, P. antidesma.* Wood used to dye red.

LECANIA INCANA, *Hedycroa;—Chrysobalanus purpurea;—C. oblongifolius;—Icaco, C. icaco.* Fruits eaten.

*CHERRY, *Gee, Cerasus, Prunus cerasus.* Many varieties; fruit, *red cherries, cerasa rubra,* cooling, nutritive, laxative; leaves used as tea in fevers.—*Brandy cherries.* Morello cherries preserved in brandy.

*BIRD CHERRY, *Wild cluster cherry, Cerasus avium, Prunus padus.* Fruit, *black cherries, cerasa nigra,* astringent, nauseous, but gives an agreeable flavour to wine or brandy.

SOUR CHERRY, *Amarelle, Prunus cerasus acida.* Fruit esculent, acidulous.

PERFUMED CHERRY-TREE, *Prunus mahaleb.* Wood, *Saint Lucie* wood, odoriferous, sudorific; kernels, *macanet grains,* used to scent washballs.

LAUREL, *Laurocerasus, Prunus laurocerasus.* Leaves have been used in cookery for those of the bay tree, but are less aromatic, and communicate the flavour of bitter almonds: as they contain Prussic acid, they act on the nervous system, and are dangerous; distilled oil of the leaves poisonous to animals. *Officinal preparation.*—Aqua lauro-cerasi, *D.*

WILD CHERRY TREE, *Prunus Virginiana.* Bark febrifuge; plum and leaves poisonous to many animals.—*Prunus aspera* Fruit edible.—*P. hyemalis.* Fruit acerb, edible in winter.

*PLUM, *Prunus domestica.* Many varieties; fruit laxative,

French plums, pruna Gallica, black, acidulous, cooling, laxative, apt to purge.

PRUNELLOES, *Imperial plums, pruna Brignoliensa*. Yellow, not apt to purge.—Prunes, *pruna Damascena*, black, purgative.

SLOE TREE, *Black thorn, Prunus sylvestris, P. spinosa*. Leaves substituted for tea; bark powdered, ʒij used in intermittent fevers; flowers ʒj, infused in water or whey, are a pleasant purge; fruit, *sloes, pruna sylvestria*, gives a pleasant flavour and red colour to wine; juice of the fruit stains linen of an indelible colour.

APRICOCK TREE, *Prunis Armeniaca*. Fruit, *apricocks, Armeniaca mala, præcocia*, nourishing, laxative, febrile; seeds bitter, saponaceous.

BRIANÇON APRICOCKS, *Armeniaca Brigantiaca*. Fruit acid; kernels yield oil.

PEACH TREE, *Nectarine, Amygdalus Persica*. Leaves and flowers purgative; fruit, *Persica mala*, in hot countries, the same: wood used in dyeing, sold in chips and ground.

DWARF ALMOND, *Amygdalus pumila*. Flowers purgative.

ALMOND TREE, *Amygdalus communis*. Kernels, *sweet almonds, amygdalæ dulces*, pectoral and cooling, but mawkish; imported from the south of Europe and the Barbary coast; Mogadore. *Blanched almonds*. Almonds thrown into boiling water until the skin comes off by pressing between the fingers, the hot water is then strained away, the almonds flung into cold water, peeled, and dried either in a stove or the sun until they are brittle.—*Burnt almonds*; used to colour and flavour liqueurs.—*Bitter almonds, amygdalæ amarae*. A variety, imported from Mogadore, used to relieve the flavour of the sweet, and to clear muddy water; both pressed for oil.—*Almond cake, amygdalæ placepta*, left on pressing the oil, used for washing the hands. *Principal officinal preparations*.—*Amygd. dulces*. Oleum amygd., and Con-amygd. D. L. Mist. anygd. D.

AQUILARIA OVATA, *Aloexylum agallochum*. Wood, *aloes wood, calambac, eagle wood, lignum aloes*; white, buried for some time becomes dark and resinous, cordial, alexiterial; used in fumigations and pastilles.—*Aghilcuttay, Lignum aspalathi*. Reddish, resinous, added to sandal wood to increase its fragrancy.

CALYCANTHUS FLORIDUS. Root emetic, seed poisonous.

129. LEGUMINOSÆ.

EGYPTIAN THORN, *Acacia, Mimosa Nilotica*. Exudes white gum Arabic, juice of its pods is made into acacia vera.—*Mimosa Senegal*; — *M. Farnesiana*. Exudes gum. *Principal officinal*

preparations.—Mucil. acaciæ, *L.* Emulsio Arab., *D.* Mist. cornu usti., *L.* Confectio amygd., *L. D.*

MIMOSA CATECHU. Yields terra Japonica. *Principal officinal preparations*.—Infus. catechu comp., and tinct. catechu, *L.*

COCCOON, *Mimosa scandens.* Seeds eatable.

CATS' CLAW, *Mimosa unguis cati.* In decoction, diuretic.

CREEPING AND PRICKLY SENSITIVE PLANTS, *Mimosa*

Roots cleaned and barked, about gr. xv, in red wine, used against poisons; leaves poisonous.—*M. inga*;—*M. fugifolia*;—*M. ferox.* Seeds purgative, but eaten.

MIMOSA NATANS. Eaten as a salad herb.

BABUL, *Barbura, Mimosa Arabica.* Yields yellow gum Arabic.—*M. amara.* Bark bitter.—*M. saponaria.* Bark makes a kind of soap.

TRIPLE-THORNED ACACIA, *Gleditsia triacanthos.* Seeds used to feed animals; sap yields sugar.

CAROB TREE, *St. John's bread, Siliqua dulcis, Caroba, Ceratia, Ceratonia siliqua.* Pod used as food for man and beast, and by singers to improve the voice.

TAMARIND, *Tamarindus, T. Indica.* Pulp acidulous, cooling, laxative; stones baked, soaked in water to get off the skins, and the kernels boiled or fried, used for food.

TAMARINDS IN THE POD, *Tamarindi fructus naturalis.* From Egypt, in bags of six cwt. each.—**RED TAMARINDS,** *Tamarindi rubri, Tamarindi preparati.* The shells broken off, and syrup added to preserve the pulp.—**BLACK TAMARINDS,** *Tamarindi nigri.* The shell broken off, and salt added to preserve the pulp.—*Eastern Islands tamarinds.* The shell broken off, and the pulp dried in the sun. *Officinal preparations*.—Infus. sennæ cum Tamarindis, *D. E.* Electuarium sennæ, *D. E. L.* Elect. cassiæ, *D. E.*

SCOTIA SPECIOSA, *Guaiacum Afrum.* Seeds eaten.

CASSIA STICK TREE, *Cathartocarpus fistula, Cassia fistularis.* Fruit, *cassia fistula,* two feet long, size of the thumb, imported from the West Indies; pulp purgative, cooling.

HORSE CASSIA, *Cassia Brasiliensis, C. mollis, C. Javanica.* Pulp purgative, bitter.

STINKING WEED, *Jamaica piss-a-bed, Cassia occidentalis.* Expressed juice used in eruptions; root diuretic.

WEST INDIA SENNA, *Cassia emarginata.* Pulp of the pods laxative; leaves purgative, used for senna.

AMERICAN SENNA, *Cassia Marylandica.* Leaves purgative.

CASSIA ORIENTALIS, *C. acutifolia.* Leaves, *Mecca senna, pilgrim senna, senna, senna Alexandrina, sennæ folia,* lanceolate, equal sided, with glands above the base of the petiole, 2j to 3j, or in

infusion, purgative, nauseous and apt to gripe, best corrected with ginger or coriander seeds. The leaves of *Cynanche arguel*, and *Coriaria myrtifolia* are mixed with senna; the leaves of *Pleriploca Græca*, *Globularia alypum*, of several other species of *Cassia* and of *Colutea*, and those of *Coronilla emeris*, are substituted for senna: pods, *sennæ folliculi*, less purgative than the leaves, but also less bitter, and seldom gripe. *Official preparations*.—Tinct. *sennæ comp. D.* Electuarium *sennæ, D. E.* Confectio *sennæ, L.* Infus. *sennæ, L. E.* Infus. *sennæ comp. D.* Pulv. *sennæ comp. L.*

CASSIA ABSUS. Leaves reverse ovate, two awl-shape glands at the base of the petiole; mixed with those of the preceding plant: seeds, *tchischim semina*, applied with sugar to the eyes in the Egyptian ophthalmia.

CASSIA SENNA. Leaves, *Italian senna, Coromandel senna, country senna*, nearly ovate, petiole not glandular, more nauseous and less active than the Alexandrian: used in the East Indies for senna.

CASSIA LANCEOLATA. Leaves, *Mochosenna, East Indian senna, senna Arabica*, very long, lanceolate, equal sided, smell weak.—*Cassia* Leaves, *Tripolisenna, senna Tripolitana*, large, blunt, rough, darkish green.

CANE-PIECE SENSITIVE PLANT, *Cassia chamæcrista*. Used against the poison of nightshade.—*C. alata*. Flowers used to cure tetters.

RINGWORM BUSH, *Cassia herpetica*. Bruised leaves and expressed juice used against itch, tetters, and ringworms.

SMOOTH BONDUC TREE, *Guilandina moringa, Hyperanthera moringa, Moringa Zeylanica, M. oleifera*. Root, *moorunghy root, East Indian country horse-radish*, acrid, used as a sauce: wood, *lignum nephriticum*, diuretic, used for dyeing blue; nuts, *ben nuts, pois queniques, nuces behen, balanus myrepsica, glans unguentaria*, yield oil by pressure; pods, leaves, and flowers, eaten as pot-herbs.

YELLOW NICKAR TREE, *Guilandina bonduc*. Nuts, *yellow nickars*, astringent, used in gonorrhœa, yaws, and convulsions.

GREY NICKAR TREE, *Guilandina bonducella*. Nuts, *grey nickars*, pressed for oil.

GUILANDINA SAPPAN, *Cæsalpinia sappan*. Wood, *Chappingham wood, Sappan, bois d'Inde, bresillet des Indes*.—From the East Indies; used to dye red, scentless.

LOGWOOD TREE, *Hæmatoxylon Campechianum*. Exudes a gum: wood, *logwood, lignum Campechense, hæmatoxyli lignum*, in large logs, without any bark, solid, inside pale reddish brown, sweetish; astringent ʒj to ʒj, used to dye red or purple.

ESALPINIA CRISTA. Wood, *Brazil wood, lignum Brasiliense,*

very hard, sinks in water, pale when fresh cut, but turns nearly black by exposure to air; used to dye red, and for ink; from South America,—*Cæsalpinia Brasiliensis*, *C. Bahamensis*. Wood, *Bahama brazilletto*, used to dye red, gives a deep colour to water.—*C. echinata*. Wood, *Nicaragua wood*, *bresil de St. Marthe*, *stockvisch hout*, in short logs with a thin bark, much split, very hard and heavy, smells like salt fish; used to dye red.—*C. vesicaria*, *C. bijuga*, *Poinciana bijuga*. Wood, *bastard Nicaragua wood*, brown, dyes red; from Jamaica.—*C. coriaria*. Pods, *libidibi*, used in tanning.

BARBADOES FLOWER FENCE, *Barbadoes pride*, *Spanish carnations*, *Cæsalpinia pulcherrima*, *Poinciana pulcherrima*. Tea of the leaves and flowers, and syrup of the flowers, purgative, and emmenagogue; also the seeds in powder, dose ʒj, in common use with the negro slave girls to procure abortion.

BUTEA FRONDOSA. Yields, by incision, gummi rubrum astringens.

ADENANTHERA PAVONIA. Wood substituted for red sanders.

LOTUS COURBARIL, *Hymenia courbaril*. Exudes gum anime, pods contain an acidulous nutritive farina.

PODALYRIA TINCTORIA. Root dyes black.

JUDAS TREE, *Cercis siliquastrum*. Flowers piquant, antiscorbutic, in salads.

STINKING BEAN TREFOIL, *Anagyris foetida*. Leaves emmenagogue, cephalic; seeds emetic.

*FURZE, *Whins*, *Gorse*, *Genista spinosa*, *Ulex Europæus*. Plant attenuant, diuretic, determining to the skin, occasioning nausea.

CANARY ROSE WOOD, *Genista Canariensis*. Root, *lignum rhodium*, yellowish, with red veins, has the scent of roses: used for fumigation, is cordial and cephalic.

*DYERS' BROOM, *Green weed*. Wood waxen, *Sereque*, *Genista tinctoria*. Flowers and leaves aperitive, diuretic; used to dye yellow.

GENISTA OVATA, used to dye yellow.

SPARTIUM PURGANS. Leaves and seeds purgative.

*BROOM, *Genista*, *Spartium scoparium*. Tops, *spartii cacumina*, diuretic, even to animals who browse on them; flowers used as a pickle for the table; seeds emetic, cathartic; roasted and used as coffee. *Officinal preparation*.—Extract. scoparii, D.

SPANISH BROOM, *Spartium junceum*. Qualities the same as common broom.

TREFOIL ACACIA, *Aspalathus*, *Spartium spinosum*. Yields Italian acacia.

LABURNUM, *Cytisus laburnum*. Leaves diuretic, resolvent.—*C. cajan*. Seeds, *pigeon pea*, *Angola pea*, *orror*, used as food, strong tasted; young shoots pectoral; roots aromatic.

HAIRY SHRUB TREFOIL, *Pseudo-cytisus*, *Cytisus hirsutus*. Leaves cooling, diuretic.

WHITE LUPINE, *lupinus*, *L. albus*. Seeds rather bitter, emmenagogue, vermifuge; used as food, and externally in resolvent poultices.

WILD LUPINE, *Lupinus sylvestris*, *L. varius*. Seeds bitterish, but nutritive.

***REST-HARROW**, *Cammock*, *Petty whin*, *Ononis*, *Anonis*, *Resta bovis*, *Ononis spinosa*. Root diuretic, detersive, aperient; used in decoction.

ARACHIS HYPOGÆA. Seeds, *earth peas*, *pindars*, *ground nuts*, nourishing, yield oil, made into chocolate; root sweet.

***KIDNEY VETCH**, *Anthyllis vulneraria*;—*Dalea enneaphylla*. Dye yellow.

PARAGUAY TEA, *Psoralia glandulosa*. Leaves stomachic, vulnerary, vermifuge.

STINKING TREFOIL, *Trifolium bituminosum*, *Psoralia bituminosa*. Leaves diuretic, anticancerous; seeds yield oil.—*P. pentaphylla*. Root, *Spanish contrayerva*. *contrayerva*, slightly aromatic, taste sharp, used in typhoid fevers.

MOUNTAIN LIQUORICE, *Alpine trefoil*, *Trifolium Alpinum*. Root sweet.

***HARE'S FOOT**, *Lagopus*, *Pes leporinus*, *Trifolium arvense*. Leaves pectoral, antidysenteric.

FIELD TREFOIL, *Lotus urbana*, *Trifolium odoratum*, *T. cæruleum*. Herb diuretic, vulnerary, anodyne.

***COMMON TREFOIL**, *Trifolium*, *Lotus herba sylvestris*, *T. pratense*. Herb laxative.

***MELILOT**, *Melilotus*, *Trifolium melilotus officinale*. Herb pectoral, discussive, causes the peculiar flavour of the schab-ziger, or scraped cheese of Germany.

ITALIAN MELILOT, *Melilotus vera*, *Trifolium melilotus Italica*. Herb suppurative.

***LUCERNE**, *Medicago sativa*. Seeds dye yellow.

***LITTLE YELLOW TREFOIL**, *Melilot trefoil*, *Trifolium luteum minimum*, *Medicago lupulina*. Herb lenifying.

SEA KIDNEY VETCH, *Anthyllis*, *Medicago circinata*. Herb used in dysury.

FENUGREEK, **MAYTEE**, *Fœnum Græcum*, *Trigonella fœnum*

Græcum. Seed odoriferous, mucous, resolvent, stomachic, roasted for coffee; dye yellow.

PILE LOTUS, *Trifolium hæmorrhoidale*, *Lotus hirsutus*;—*White lotus*, *Lotus dorycnium*. Seeds useful in piles.

***YELLOW LOTUS**, *Lotus corniculata*. Anodyne, emollient; used in burns: leaves turn green in drying.

BLACK EGYPTIAN BEAN, *Lablab*, *Dolichos lablab*. Seeds nutritive.

DOLICHOS PRURIENS. Pods, *siliqua hirsuta*, eaten when young, imported from the West Indies; the hair of the pods, *cowhage*, *dolichi pubes*, occasions violent itching, to be allayed by a solution of green vitriol or oil; vermifuge, by scraping the hair off a pod into treacle or syrup for a morning dose, and giving a brisk purge after two or three doses of the cowhage; root, in decoction, diuretic, and very useful in dropsy.

BARBATY, *Dolichos catjang*;—*D. soya*. Seeds used to make soy, eaten in soup.

COOLTHI, *Dolichos biflorus*;—*D. Sinensis*. Seeds eaten.—*D. tuberosus*;—*D. bulbosus*. Roots eatable.

FRENCH BEAN, *Kidney bean*, *Fève de Rome*, *Haricot*, *Phaseolus vulgaris*;—*Scarlet bean*, *Phaseolus coccineus*;—*Dwarf kidney bean*, *P. nanus*. Pods eatable, nourishing; flour of the seed emollient, diuretic, nourishing.

MUNCO, *Halli moog*, *Phaseolus mungo*. Seeds made into sago.—*P. tuberosus*. Root esculent.

VELLORE BEAN, *Duffin bean*, *Phaseolus lunatus*;—*East India country bean*, a variety;—*Soria moog*, *P. aureus*;—*Krishna moog*, *P. max*;—*Mash cally*, *P. radiatus*;—*Moot*, *P. aconitifolius*;—*P. Tunkinensis*. Seeds eaten as pulse.

ERYTHRINA MONOSPERMA. Yields a kind of lac.

GLYCINE APIOS, *Apios tuberosa*. Root farinaceous.

GLYCINE ABRUS, *Abrus precatorius*. Root, *Jamaica wild liquorice*, yields an extract like liquorice; herb diaphoretic, pectoral, demulcent; seeds, *jumble beads*, sold at the china shops, ophthalmic, cephalic.

DOG WOOD, *Piscidia erythrina*. Bark of the root thrown into ponds, or still water, stupifies the larger fish, without rendering them unwholesome, and kills the smaller ones; used to cleanse foul ulcers.

ROBINIA CARAGANA. Seeds oleaginous, eatable.

ASTRAGALUS CRETICUS;—*A. gummifer*. Exude gum tragacanth.

MILK VETCH, *Astragalus*, *A. Syriacus*. Root astringent, diuretic.

***WILD LIQUORICE**, *Liquorice vetch*, *Astragalus glycyphyllos*. Root sweet, used for liquorice; leaves used in retention of urine.

BLADDER SENNA, *Colutea cruenta*;—*C. arborescens*. Leaves and pods purgative, used for senna.

LIQUORICE, *Glycyrrhiza*, *G. glabra*. Root, *stick liquorice*, *liquiritia*, *glycyrrhizæ radix*, sweet, opening, expectorant, pectoral, diuretic; chewed, it extinguishes thirst; its infusion covers the taste of unpalatable drugs more effectually than sugar: 1s. 8d. the lb.; ground, 2s. 8d.

PRICKLY LIQUORICE, *Glycyrrhiza echinata*. Root sweet, juice is used in tetter and ringworms.

GOATS RUE, *Galega*, *Ruta capraria*, *Glycyrrhiza officinalis*. Sudorific, vermifuge, alexiterial, useful in epilepsy and convulsions.—*G. piscatoria*; *G. tinctoria*. Intoxicates fish.

INDIGO PLANT, *Anil*, *Indigofera tinctoria*, and several other species, yield indigo.

TUBEROUS VETCH, *Lathyrus tuberosus*. Root tuberous, sweet, yields fecule; they are sold for salep roots.

CHICK PEA, *Keessari*, *Lathyrus sativus*. Seeds nutritive.

***VETCH**, *Vicia*, *V. sativa*. Seeds, *tare*, detersive, astringent. The Canadian variety makes good bread.

VICIA FABA. Seeds, *garden bean*, *faba major*, nourishing, difficult of digestion, flatulent.—*Vicia faba* β . Seeds, *horse bean*, *faba minor*, *f. equina*, nourishing, roasted for coffee.

***BASTARD VETCH**, *Orobus sylvaticus*;—*O. luteus*;—*O. vernus*;—*O. niger*. Seeds yield a resolvent farina.

***BITTER VETCH**, *Heath pea*, *Orobus*, *Ervum*, *O. tuberosus*. Roots nutritive; farina of the seed resolvent.

ERVUM LENS. Seeds, *lentil*, *lens vulgaris*, *mussoor*, difficult of digestion, astringent, hurtful to the eyes.

ERVUM ERVILIA. Farina maturative and resolvent.

PEA, *Motor*, *Pisum*, *P. sativum*. Green pods used in the scurvy: fresh seeds saccharine, nutritive; dry seeds heavy and flatulent.

CHICK PEA, *Cicer*, *C. arietinum*. Seeds, *calavanches*, *bhoot*, *horse gram*; heavy, but wholesome, roasted for coffee; farina resolvent.

MILK VETCH, *Polygala vera*, *Coronilla juncea*. Herb in decoction increases the milk.

***SMALL BIRDS-FOOT**, *Ornithopus perpusillus*. Herb lithontriptic, and used in ruptures.

SCORPION WORT, *Scorpioides*, *Ornithopus scorpioides*. Herb stimulant, applied externally to bites of venomous animals.

*HORSESHOE VETCH, *Ferrum equinum comosum*, *Hippocrepis comosa*:—*Scorpion senna*, *Coronilla emerus*. Leaves purgative; used instead of senna by the country people.

SECURIDACA, *Coronilla securidaca*. Seed extremely bitter, purgative.—*C. varia*. Juice emetic.

*SAINFOIN, *Cockshead*, *Onobrychis*, *Hedysarum onobrychis*. Herb ripening, discussive, useful in strangury.

ALHAGI, *Hedysarum alhagi*. Yields Persian manna.

SESBAN, *Æschinomene sesban*. Seeds stomachic, emmenagogue.

BASTARD SENSITIVE-PLANT, *Æschinomene grandiflora*. Seeds eatable; yield gum agaty; used in dyeing.

CABBAGE TREE, *Worm-bark tree*, *Geoffrœa inermis*;—*G. Surinamensis*. Barks bitter, astringent, febrifuge, and vermifuge, in doses of ʒj to ʒj; but the dose should be less at first, and gradually increased, lest it should occasion vomiting, delirium, and fever: gr. xv, with as much jalap, a good purgative; or ʒjss, boiled in water, dose coch. maj. ij—iv, omni mane, for three or four days, and afterwards a dose of oil.

PTEROCARPUS SANTALINUS. Wood, *red sanders*, *bresille*, *rood caliatour hout*, *santalum rubrum*, *pterocarpi lignum*, resinous, odoriferous, austere, astringent, tonic: used as a red colouring ingredient in spirituous tinctures, yields a rosin analogous to dragon's blood.—*Pterocarpus draco*;—*P. Indicus*. Yield dragon's blood.—*P. dahlbergioides*. Wood, *Andaman red wood*, *rood hout*, used in dyeing.—*P. erinaceus*. Yields common gum kino.

COPAIFERA OFFICINALIS. Yields balsam of copaiba.

ORIGINAL JESUIT'S BARK TREE, *Kina kina*, *Myrospermum pedicellatum*, *Myroxylon pedicellatum*. The first kind of Peruvian bark brought to Europe; speckled on the outside, resinous when held to the sun, odoriferous, not so bitter or astringent as the present sorts from the Loxa tree; yields a rosin.

MYROSPERMUM PERUIFERUM, *Myroxylon peruiferum*, *Toluifera balsamum*. Yields, by incision, balsam of Peru and balsam of Tolu.

DIPTERIX ODORATA, *Coumarouna odorata*, *Baryosma tonga*. Kernel, *Tonca bean*, odoriferous, used to scent snuff; contains coumarine, which exudes between the lobes.

DERBIS PINNATA. Root used for arca nut.

STIZOLOBIUM URENS. Legume irritating; hairs of the pods of all the species are used as anthelmintics; powdered seeds are applied externally as an antidote against the stings of insects and reptiles.

PROSOPIS SPICIGERA. Pod esculent.

TESPESIA? *Cercis?* Wood, *cam wood, red wood, bois de cham, pao gaban*, red, with black veins, more porous, lighter, and smoother than either logwood, brasiletto, or Nicaragua wood; from Africa.

130. POLYGALEÆ.

***MILK WORT**, *Polygala vulgaris*;—*P. amara*;—*P. sanguinea*;—*Bitter polygala, P. rubella*. Roots may be substituted for rattlesnake root, dose in powder is ʒss to ʒj, useful in pleurisy; herbs bitter, diaphoretic, in infusion ʒiiij taken daily, promote expectoration, and are used in catarrhus coughs.

POLYGALA SENEGA. Root, *rattlesnake root, Seneka snake root, senega, senegæ radix*, diaphoretic, diuretic, used in America against the bite of the rattlesnake, either in powder ʒi to ij, or ʒj boiled in lb. jss of water to lb. j, and given by ʒij at a time; from North America. Black snake root is used for it. *Official preparation.*—Decoctum senegæ, *D. E.*

POLYGALA THEEZANS. Mixed with tea in Japan.

KRAMERIA IXINA;—*K. triandra*. Root, *ratany, rhatania, Krameria radix*, astringent and tonic.

132. TEREINTACEÆ.

CASHEW-NUT TREE, *Cassuivium occidentale, Anacardium occidentale*. Peduncle of the nut astringent, eatable; juice astringent, made into a kind of wine; kernel of the nut aphrodisiac, used to increase the memory, as also to quicken the genius; shell of the nut contains an acrid oil: exudes gum.

MALACCA BEAN TREE, *Anacardium orientale, Semecarpus anacardium*. Nut, *Malacca bean*, boiled for the oil, contain a caustic, black, oily mucilage, and then a sweet white kernel, which is cephalic, and increases the memory; the mucilage is used externally in disorders of the skin; green fruit used for marking, eatable.

MANGOE, *Mangifera Indica*. Fruit eaten raw;—*Pickled mangoes*. Used as sauce;—*Preserveil mangoes*. The fruits peeled, and pressed into sheets like brown paper.

SUMACH, *Rhus obsoniorum, R. coriaria*. Bark, leaves, flowers, and fruits acidulous, very astringent; shoots and leaves imported and sold ground, for dyeing.

VENICE SUMACH, *Red sumach, Rhus cotinus*. Equally astringent; wood, *young fustick*, yellow, dyes coffee-colour, and with nitromuriate of tin an orange; fruit, *sumach berries*, astringent.

POISON OAK, *Rhus toxicodendron*. Juice caustic, dyes linen, &c., black, raises blisters on the skin, and is poisonous taken

internally; leaves, *toxicodendron*, P.U.S. *toxicodendri folia*, stimulant, narcotic, used in palsy; dose gr. ss to gr. iv, twice or thrice a-day.

COMMON PENNSYLVANIAN SUMACH, *Rhus glabrum*. Bark febrifuge, used in dyeing red.—*Rhus copallinum*. Yields West India copal.—*R. vernix*. Yields, by incision, Japanese varnish; milky juice dyes linen, &c., black.

VIRGINIAN SUMACH, *Rhus Virginianum*, *R. typhinum*. Berries astringent, used in fluxes of different kinds; juice of the stem raises blisters on the skin.

HOG GUM TREE, *Rhus metopium*. Yields hog gum.—*R. Javanicum*. Berries boiled in water yield rosin.—*R. striatum*. Juice of the bark yields a black colour.—*R. radicans*. Juice vesicatory.

* MYRTLE-LEAVED SUMACH, *Coriaria myrtifolia*. Leaves used in tanning and dyeing the same as sumach; mixed with senna.

WIDOW WAIL, *Cneorum tricoccum*. Acrid, caustic, drastic, a powerful detergent, but dangerous.

COMOCLADIA DENTATA. Wood, *bastard brasil*, dark red, dyes like Brasil wood; juice dyes the skin of a nearly indelible black colour.—*Comocladia angulosa*. Wood, *Saint Domingo braziletto*, used in dyeing.—*C. illicifolia*. Juice dyes the skin black.

BALM OF GILEAD TREE, *Amyris Gileadensis*, *A. opobalsamum*. Yields, by incision, the true balm of Gilead in very small quantities, generally at the rate of three or four drops a-day from a branch; even the most resinous trees not yielding more than sixty, whence arises its value: fruit, *carpobalsamum*, and branches, *xylobalsamum*, vulnerary, antiseptic, and used against barrenness.

AMYRIS ELEMIFERA. Yields, by incision, gum elemi; wood, *bois de chandelle noir*, split in laths, and burned for lights.

AMYRIS BALSAMIFERA. Wood, *Jamaica rose wood*, *lignum rhodium*, used in cephalic fumigations, burning with a scent of roses; leaves, in infusion, diaphoretic, aromatic, cephalic; berries used for balsam of capivi. From undescribed trees of this genus, *Amyris*, are produced true or male frankincense, myrrh, opocalpasum, bdellium, and liquid myrrh.

AMYRIS TOXIFERA. Yields a rosin used as a poison in war and hunting, which is, perhaps, that called ticuna.—*A. ambrosiaca*. Yields coumia.—*A. proteum*. Shells of the fruit yield an essential oil.—*A. acuchina*, *Icica acuchina*. Yields balsam acouchi.

ICICA HEPTAPHYLLA. Yields woorali poison, and, according to some, gum elemi.

MYBODENDRUM HOUMIRI. Yields balsam houmiri; bark resinous.

CANARIUM BALSAMIFERUM. Yields a kind of incense.—*C. commune*. Nuts, *Java almonds*, eaten, and made into bread; kernels yield an oil.

SCHINUS MOLLE. Yields Peruvian mastich: wood purgative, deterrent, astringent: fruits make a kind of wine, rather acrid, soon turning into vinegar.

PISTACHIA, *P. vera*. Kernel oily, sweeter than those of almonds, forms a green emulsion, cooling.

TURPENTINE TREE, *Pistachia terebinthus*. Yields, by incision, Scio turpentine; fruit styptic, pickled for eating; bark resinous; substituted for nardaphte.

MASTICH TREE, *Lentiscus vulgaris, Pistachia lentiscus*. Yields, by incision, mastich; berries yield oil; wood used in dyspeptic affections, gout, and dysentery.—*P. Atlantica*. Yields Barbary mastich; fruit acidulous.—*P. trifolia*. Fruit eatable.

JAMAICA BIRCH TREE, *Bursera gummifera*. Yields resina chibou; bark has the qualities of simarouba; root astringent.—*Bursera orientalis*. Also yields a tonic styptic resin.

SPONDIAS CITHEREA. Fruit acid, cooling.

MOMBIN, *Spondius myrobalanus*. Yields rosin; fruit acerb, acidulous, laxative.

HOG PLUM, *Spondius extra*. Bark, externally, as a fomentation in anasarca.—*Otaheite apple, S. dulcis*. Fruit edible.

FALSE ANGOSTURA, *Wooginoos, Brucea antidysenterica, B. ferruginea*. Inner bark astringent; used to make brucine.

AVERRHOA CARAMBOLA;—*A. bilimbi*;—*A. acidissima*. Fruits acid, made into preserves with sugar.

BOSWELLIA SERRATA, *Libanus thurifera*. Yields olibanum.—*B. glabra*. Exudes kondricum, and, by incision, yields gugul.

133. JUGLANDEÆ.

WALNUT, *Juglans, J. regia*. Sap yields sugar; kernels of the seeds cooling, but are difficult of digestion; when old, acrid; yields half their weight of oil by expression; peel of the fruit used in dyeing brown colours; leaves deterrent, diaphoretic, anti-arthritic, anti-syphilitic; inner bark emetic, and also cathartic when given in pills; spongy substance inside the nut astringent.

AMERICAN HICORY, *Juglans alba*. Bark, green leaves, and rind of the fruit used in dyeing, with alum, a bright yellow colour.

PENNSYLVANIA WALNUT, *Butter nut, Juglans cinerea*. Inner bark of the root, *juglans*, P. U. S. cathartic, and used against worms.

135. PITTOSPOREÆ.

PITTOSPORUM TOBIRA. Seeds surrounded by a kind of resinous birdlime.

? BILLARDIERA SCANDENS. Flesh of the berry eatable.

136. CELASTRINEÆ.

BLADDER NUT-TREE, *Staphylea trifolia*. Kernels eaten.

*SPINDLE TREE, *Prick wood*, *Fusain*, *Evonymus Europæus*. Seeds, three or four, emetic and purgative; externally used as a powder to kill lice, &c.; wood makes good charcoal; fruits dye a yellowish red or rusty colour.

CELASTRUS MACROCARPUS. Seeds oily.—*C. maytenus*. Decoction of the young twigs used as a wash, in the swellings produced by the shadow of the tree called lithi.

137. ILICIDEÆ.

CASSINE PERAGUA, *Ilex vomitaria*. Leaves, *Paraguay tea*, diuretic in infusion, and diminish hunger; but if too much is used, emetic; an infusion of the high-dried leaves is drunk as an exhilarant.

*HOLLY, *Ilex*, *I. aquifolium*. Root, bark, berries acrid, purgative, and externally used emollient and resolvent; berries roasted used for coffee; bark yields birdlime.

138. FRANGULACEÆ.

*BUCK THORN, *Spina cervina*, *Rhamnus catharticus*. Berries, *rhamni baccæ*, no. xx, or ʒjss, when dried, very purgative, usually made into a syrup; juice made into sap-green; bark dyes yellow; inner bark is cathartic.

RHAMNUS INFECTORIUS. Berries purgative; unripe berries, dried, *French berries*, *grana Avenionensia*, dye yellow.—*Turkey berries*, preferred by the dyers, are a larger variety.

RHAMNUS THEEZANS. Leaves used to reduce tea.

*BLACK ALDER TREE, *Alnus nigra*, *Frangula*, *Rhamnus frangula*. Unripe berries used to make sap-green; ripe berries purgative; bark bitter, emetic, detersive, aperitive, and dyes yellow; bark of the root violently purgative; wood, *black dog wood*, makes the best charcoal for gunpowder.

EVERGREEN PRIVET, *Rhamnus alaternus*. Some sap-green is made from it; laxative.

JUJUBE TREE, *Rhamnus ziziphus*. Fruit, *jujubes*, *jujubæ*, nourishing, mawkish, mucilaginous, pectoral.

LOTUS, *Rhamnus lotus*. Fruit eatable, makes a pleasant wine.—*R. jujuba*. Fruit styptic.—*R. saporifera*. Fruit anodyne, soporific; used in decoction.—*R. paliurus*. Seeds diuretic; root and leaves astringent, detersive; fruit incisive.—*R. Siculus*, *Elæodendrum argan*. Nuts pressed for their oil.

GREAT JUJUBES, *Cenopia*, *Rhamnus ænopia*. Unripe fruit stomachic, astringent; juice of the ripe fruit laxative.

BLACK RAM THORN, *Rhamnus niger*, *R. lycioides*. Fruit, in decoction, relieves the pain of the gout.—*R. sanguineus*. Bark, boiled in milk, used for the itch.

HOVENIA DULCIS. Peduncle fleshy, sweet tasted, esculent.

NEW JERSEY TEA, *Ceanothus Americanus*. Leaves used for tea.

APALACHIAN TEA, *Prinos glaber*. Leaves used as tea.

BLACK ALDER, *Prinos verticillatus*. Bark, *prinos*, P. U. S., febrifuge.

? ARISTOTELIA MACQUI, *A. glandulosa*. Fruit eaten with sugar, or rubbed down with water for a drink.

139. BERBERIDEÆ.

*BERBERIS *Oxyacantha*, *B. vulgaris*. Berries, *berberries*, *pipperidges*, very acid, incisive, astringent, hepatic; bark useful in jaundice as an aperitive; root very bitter: root, wood, and bark give wool a yellow colour destructible by air and soap.

*ALPINE BARREN WORT, *Epimedium Alpinum*. Roots and leaves astringent.

BLACK TURNIP, *Leontopetalon*, *Leontice leontopetalon*. Root stomachic.

RED TURNIP, *Chrysogonum*, *Leontice chrysogonum*. Root stomachic.

140. NYMPHEACEÆ.

*YELLOW WATER LILY, *Nymphæa lutea*. Root astringent, contains a quantity of fecula.

*WHITE WATER-LILY, *Nymphæa alba*. Root astringent, refrigerant; a weak infusion useful in leprosy, dose a pint night and morning.

EGYPTIAN BEAN, *Jamaica water-lily*, *Faba Ægyptiaca*, *Nymphæa nelumbo*, *Nelumbium speciosum*. Root used as food; liquor that runs out of the footstalk when cut, used in loosenesses and vomitings, also diuretic and cooling; seeds nutritive; bark is said to form Chinese rice paper, others ascribe it to *artocarpus jaca*.

141. PAPAVERACEÆ.

*WHITE POPPY, *Papaver album*, *P. somniferum*. Seeds, *max seed*, put into cakes, used in emulsions, better tasted than almonds, yield oil; capsules without the seed, *poppy heads*, *papaveris capsulae*, used in anodyne fomentations; yields, by incision, the best opium, and, by expression, a coarser sort: cultivated by the Lincolnshire cottagers, for the purpose of distilling a narcotic water from the flowers. *Official preparations*.—The principal are, *Extractum opii aquosum*, *D. L.* *Tinctura opii*, *D. E. L.* *Tinct. opii camph.* *D. L.* *Acetum opii* and *vinum opii* *D.* *Pulv. ipecac. comp.* *D. E. L.* *Pulv. cornu usti cum opio.*, *L.* *Pulv. cretæ comp. cum opio*, *D. L.* *Confectio opii*, *L.* *Emplastrum opii*.

BLACK POPPY, *Papaver nigrum*. A variety of the last.

*RED POPPY, *Corn rose*, *Papaver rubrum*, *Rhœas*, *P. erraticum*, *P. rhœas*. Petals, *rhœados petala*, pectoral, slightly anodyne; used also as a red colouring ingredient in medicines.

*LONG-HEADED BASTARD POPPY, *Argemone capitulo longiori*, *Papaver argemone*. Leaves used outwardly in inflammations; the yellow expressed juice takes off spots on the cornea.

JAMAICA YELLOW THISTLE, *Argemone Mexicana*. Juice and leaves used in ophthalmia; seeds emetic, yield an oil.

*YELLOW HORNED POPPY, *Chelidonium glaucum*. Seeds and juice analogous to the preceding.

*GREAT CELANDINE, *Chelidonium majus*. Root detersive, acrid, purgative; herb ophthalmic.

BLOOD ROOT, *Puccoon*, *Sanguinaria Canadensis*. Juice blood red, gr. vx to xx, used in dyeing; fruit narcotic; root, *sanguinaria*, P. U. S. emetic, purgative.

MAY APPLE, *Podophyllum pedatum*. Root, *podophyllum*, P. U. S. purgative.—*Bocconiu frutescens*. Juice red, used in dyeing.

JEFFERSONIA DIPHYLLA. Root purgative.

142. FUMARIDÆ.

*FUMITORY, *Fumaria officinalis*; — **Bulbous-rooted fumitory*, *F. bulbosa*, *F. solida*; — **Yellow fumitory*, *F. lutea*. Very opening, refreshing: of use in cutaneous disorders, boiled in milk; or their expressed juice, taken daily to ʒij, twice a day; infusion removes freckles and clears the skin; dyes yellow.

HORNED WILD CUMIN, *Hypecoon*, *Hypecoon procumbens*; — CODDED WILD CUMIN, *Cuminum soliquosum*, *Hypecoon pendulum*. Narcotic; yields cumin opium.

143. CRUCIFERÆ.

Contain azote (nitrogen) in their composition, and therefore easily putrify and furnish volatile alkali by distillation; they are generally stimulant, but when dried lose their antiscorbutic quality; seeds soon lose their vitality, unless kept moist in a cool place: these plants are always the first that are attacked by insects, and soon destroyed by them when kept in a hortus siccus.

*WILD MUSTARD, *Charlock*, *Rhaphanus raphanistrum*;—RADISH, *Rhaphanus hortensis*, *R. sativus*. Aperitive, diuretic, and excite the appetite; seed attenuant, pressed for oil.

*MUSTARD, *Sinapi*, *Sinapis nigra*. Seeds, *sinapis semina*, unbruised, coch. maj. j, stimulant, and generally laxative, cure vernal agues: farina of the seeds used as a rubefacient, and as seasoning; when mixed with water or vinegar has a bitter flavour, which, after some time, goes off: hull of the seed sold for ground pepper, under the name of P. D. *i. e.* pepper dust, and pressed for oil.

*WHITE MUSTARD, *Sinapi album*, *Sinapis alba*. Seeds ground for mustard, but is not so stimulant.

*YELLOW CHARLOCK, *Sinapis arvensis*. Seed detersive and digestive; when given to birds instead of rape, heats and kills them; ground for mustard, but its flavour is inferior.

SERSOON, *Sinapis dichotoma*;—*Rai*, *S. ramosa*;—*Sheta sersha*, *S. glauca*;—*Chinese mustard*, *S. Sinensis*;—*Tori*, *S.*
Seeds pressed for oil.

*COLE WORT, *Cabbage*, *Cauliflower*, *Brocoli*, &c. &c. *Brassica*, *Caulis*, *B. oleracea*. Afford a copious source of aliment to man and beast; juice a good pectoral, discussive, diuretic, and opens the belly; leaves vulnerary, opening.

*RED CABBAGE, *Brassica oleracea rubra*. Leaves used to make a test liquor for acids and alkalies.—*Pickled red cabbage*. The leaves sliced and preserved with vinegar and spices, used as a sauce.

SAUR KRAUT, *Brassica acidulata*. Large white cabbages cut into thin horizontal slices, and placed in a barrel with a layer of salt at top and bottom, and between each layer of cabbages. A board with some weights on it is then put on the top, and it is kept in a cool place for some weeks: a kind of fermentation takes place, and vinegar is formed. Some add juniper berries, coriander seeds, tops of anise, or caraway seeds to the salt as a kind of spice. It may be dried in an oven without any loss of its flavour.

*TURNIP, *Rapum*, *Brassica rapa*. Root nourishing.

NAVETTE DE DAUPHINE, *Brassica rapa oleifera*. Seeds pressed for the oil.

*NAVEW, *French turnip, Napus dulcis, Brassica napus*. Roots nourishing, containing a sweet juice, which is very pectoral, and of great use in coughs, asthma, colds, and consumptions.

*RAPE, *Cole, Navette d'hiver, Colsa d'hiver, Napus sylvestris, Brassica napus oleifera*;—*Navette de printemps, Colsa de printemps, Brassica campestris oleifera*. Seeds pressed for their oil.

ROCKET, *Eruca, Brassica eruca*;—*Wild rocket, Eruca sylvestris, Brassica erucastrum*. Antiscorbutic, diuretic, flatulent, seeds acrid, stimulant, exciting the appetite.

*TOWER MUSTARD, *Turritis hirsuta*;—*Bastard tower mustard, Arabis turrita*. Juices kill worms, and cures the thrush.

DAMES VIOLET, *Rocket, Hesperis matronalis*. Incisive; used in dysury, strangury, and dyspnœa.

*WALL FLOWER, *Cheiri, Leucojum luteum, Cheiranthus cheiri*. Flowers cordial, emmenagogue, used in palsy.

STOCK GILLIFLOWER, *Leucojum album, Cheiranthus incanus*. Flowers used in inflammation, and to cleanse ulcers.

TREACLE WORM-SEED, *Camelina, Erysimum cheiranthoides*. Herb vermifuge, stomachic.

BROAD-LEAVED HEDGE-MUSTARD. *Erysimum latifolium, Sisymbrium irio*. Herb used as a heating potherb.

*HEDGE MUSTARD, *Erysimum, Erysimum officinale*;—*Jack by the hedge, Sauce alone, Alliaria, E. alliaria*;—*Winter cresses, Winter rocket, E. barbarea*. Antiscorbutic; used in coughs; externally detersive; seeds acrid, lithontriptic.

*EARLY WINTER CRESS, *Erysimum precox, Barbarea precox*;—*Water radish, Raphanus aquaticus, Sisymbrium amphibium*. Herbs acrid, used in scurvy; eaten in salads.

*FLIX WEED, *Sophia chirurgorum, Sisymbrium sophia*. Vulnerary, astringent, detersive.

WATER CRESSES, *Nasturtium aquaticum, Sisymbrium nasturtium*. Depurative and antiscorbutic; used in obstructions and calculous cases.

*LADIES' SMOCKS, *Cuckow flower, Cardamine pratensis*. Qualities of the preceding; flowers, *cardamines flores*, antispasmodic, in doses of ʒj to ʒij, twice or thrice a day; flowering tops are still more successfully used in epileptic fits.

DENTARIA DIPHYLLA. Dried roots used as mustard.—*D. heptaphylla*. Root astringent, attenuant.

SATIN FLOWER, *Honesty, Moon wort, Lunaria rediviva*;—*L. annua*. Roots detersive; leaves diuretic; seeds extremely acrid, used in epilepsy.

***ALYSSON**, *Alyssum campestre*. Seeds, with honey, take away freckles, used in mania.

***COMMON WHITLOW GRASS**, *Paronychia vulgaris*, *Draba verna*; —**Draba muralis*. Opening, detersive; seed, *English pepper*, hot, used for pepper.

***HORSE RADISH**, *Raphanus sylvestris*, *R. rusticanus*, *Armoracia*, *Cochlearia armoracia*. Root, *armoraciæ radix*, powerfully antiscorbutic, antirheumatic, acrid; taken, cut into small pieces, without chewing, coch. j., every morning, incisive; used as a sauce.

***SWINE'S CRESSES**, *Coronopus Ruelli*, *Cochlearia coronopus*; —**Scurvy grass*, *Cochlearia Batava*, *C. hortensis*, *C. officinalis*; —**Sea scurvy grass*, *C. Britannica marina*, *C. Anglica*. These herbs abound in volatile principles, which are dissipated by heat; they are the most valuable of antiscorbutics eaten raw, or only their juice, ʒj, to ʒiiij: an excellent whey may be made from them.

***LESSER SHEPHERDS'-PURSE**, *Bursa pastoris minor*, *Iberis nudicaulis*; —**I. amara*. Antiscorbutic, may be eaten in salads.

***SHEPHERDS'-PURSE**, *Bursa pastoris*, *Thlaspi Bursa pastoris*; —**Treacle mustard*, *Penny cress*, *Thlaspi arvense*. (Seeds, 10s. the lb.)—**Mithridate mustard*, *Bastard cress*, *T. campestre*. Seeds acrid, detersive, astringent.

GARDEN CRESSES, *Nasturtium hortense*, *Lepidium sativum*; —**Ambrosia Lepidium procumbens*. Seeds opening, incisive, antiscorbutic.

***DITTANDER**, *Pepper wort*, *Lepidium*, *Piperitis*, *L. latifolium*. Acrid, irritative, useful in sciatica; infused in beer, facilitates delivery; sialogogue.

SCIATICA CRESS, *Iberis*, *Lepidium iberis*. Made into a poultice with lard, used in sciatica.

***WILD GOLD OF PLEASURE**, *Myagrum sativum*. Vermifuge; seeds, *sesamum seeds*, useful in palsy, yield oil.

BUNIAS ERUCAGO. Acrid, diuretic.

***SEA ROCKET**, *Eruca marina*, *Bunias cakile*. Antiscorbutic, useful in the colic.

***SEA COLE-WORT**, *Sea cabbage*, *Brassica marina Anglica*, *Crambe maritima*. An excellent potherb when blanched.

CHARA, *C. Tatarica*. Roots good tasted, nutritive.

***WOAD**, *Isatis*, *Glastum*, *Isatis tinctoria*. Desiccative, astringent; used as a blue dye; and indigo is said to have been manufactured from it.—*Isatis Lusitanica*. Used in dyeing.

144. CAPPARIDÆ.

CAPEE TREE, *Capparis spinosa*. Bark of the root acerb, discussive, splenic, useful in the gout.—*Pickled capers*. The unopened flowers used as a sauce.

BASTARD MUSTARD, *Cleome dodecandra*. Root vermifuge.—*C. icosandra*. Used as a sauce, and also for sinapisms.

145. RESEDACEÆ.

*WELD, *Yellow weed, Dyers' weed, Luteola, Reseda luteola*. Used in dyeing yellow and green.—*French weld*. Stem much finer than the English.

*WILD ROCKET, *Reseda vulgaris, R. lutea*. Discussive; used externally to dissipate inflammations and tumours; dyes yellow.

146. DROSERACEÆ.

*SUN DEW, *Rosa solis, Ros solis, Rosella, Drosera rotundifolia*. Acrid, anti-arthritic, detersive, externally rubefacient.

147. PARNASSIÆ.

*GRASS OF PARNASSUS, *Gramen Parnassi, Parnassia pulstris*. Juice ophthalmic; seeds diuretic, aperitive.

148. SAPINDACEÆ.

SOAP-BERRY TREE, *Sapomaria, Sapindus saponaria*. Fruit used with rum, as an embrocation in rheumatism; tops, leaves, and seed-vessels form a lather with water, and cleanse linen, &c.; plant intoxicates and kills fish.

LIT SCHI, *Euphoria punicea, Dimocarpus, Sapindus edulis*. Fruit esculent.

CARDIOSPERMUM HALICACABUM. Juice used as an emollient in gonorrhœa; herb used as food.

GENIP TREE, *Melicocca bijuga*. Seeds oily, esculent.

PAULLINIA SUBROTUNDA. Arillus esculent.

LIANE A PERSIL, *Seriana triternata*. Used to poison fish.

RHIZOBOLUS PEKEA, *R. tuberculosa, Pekea tuberculosa, Caryocar tomentosum*. Seeds, *Guiana almonds, Brazil nuts*, esculent; imported from the Brazils. *Rhizobolus butyrosus, Pekea butyracea, Caryocar butyrosum*. Seed, *suralwah nut*, esculent.

149. ACERINEÆ.

COMMON MAPLE, *Acer minus, A. campestre*. Root useful in liver complaints.

VIRGINIA MAPLE, *Acer rubrum*. Inner bark used, in decoction, as an astringent eye-water.

SUGAR MAPLE, *Acer saccharinum*;—*Greater maple, Sycamore, *A. majus*, *A. pseudoplatanus*;—Norway maple, *Acer platanoides*. The sap of these trees, as well as that of the common maple, is used for making sugar and wine.

150. HIPPOCASTANIDÆ.

HORSE CHESTNUT, *Hippocastanum*, *Æsculus hippocastanum*. Bark and skin of the fruit febrifuge, astringent, used for Peruvian bark in doses of 3ss to 3j, also errhine: seeds farinaceous, but must be soaked in an alkaline ley to take off their bitterness.

SCARLET-FLOWERED HORSE CHESTNUT, *Æsculus pavia*. Bark febrifuge; root used for soap; seeds, *buck eyes*, used to poison fish.

151. MALPIGHIACEÆ.

SWITCH SORREL, *Triopteris Jamaicensis*. Acerb, bitterish.

BARBADOES CHERRY, *Cerasus Jamaicensis*, *Malpighia glabra*. Fruit subacid, carminative, stomachic.—*M. mourelia*. Bark used as a febrifuge.

152. HIPPOCRATICÆ.

HIPPOCRATEA COMOSA, *H. multiflora*. Nuts white, sweetish.

153. HYPERICINEÆ.

*ST. JOHN'S WORT, *Hypericum*, *H. perforatum*. Resolvent, attenuant, nervine; in maniacal cases; contains rosin; leaves give a good red dye to wool, and oil.

*ST. PETER'S WORT, *Ascyron*, *Hypericum ascyron*. Seeds purgative; useful in sciatica.

BASTARD ST. JOHN'S WORT, *Coris*, *Hypericum coris*. Seeds diuretic, antispasmodic.

*TUTSAN, *Park leaves*, *Androsæmum*, *Clymenum Italarum*, *Hypericum androsæmum*. Resolvent, attenuant.—*H. parviflorum*, *Vismia guttifer*;—*V. sessilifolia*, *H. sessilifolium*. Yield Mexican gamboge.

154. GUTTIFERÆ.

PONNA MARAM, *Poon wood tree*, *Alexandrian laurel*, *Calophyllum inophyllum*, *Balsamaria inophyllum*. Seeds yield oil.

SANTA MARIA TREE, *Calophyllum calaba*. Yields oleum Sanctæ Mariæ.—*C. tacamahaca*, *C. inophyllum*. Yields Mauritius tacamahac.

TSI XU, *Augia Sinensis*. Yields black China varnish.

STALAGMITIS CAMBOGIA;—*Cambooge tree, Cambogia gutta, Garcinia cambogia*;—*G. morella*. Produce gamboge.

CLUSIA ALBA;—*C. rosea*. Juices used as pitch.

MAMMÆA AMERICANA. Fruit eaten.—*M. Asiatica, Barringtonia speciosa, Butonica speciosa*. Kernels mixed with baits, and flung into the sea, used to intoxicate fish.

GRIAS CAULIFLORA. Half-ripe fruits, preserved in syrup or brine, used as food.

DRYOBALANOPS CAMPHORA. Trunk contains cells filled with camphire, or oil of camphire.

155. GERANIEÆ.

Herbs slightly acrid, or acid, vulnerary, and astringent.

***CRANES' BILL**, *Geranium cicutarium*;—**Musk cranes' bill, G. moschatum*;—**Herb Robert, Gratia Dei, Geranium Robertianum*;—**Doves' foot, Geranium columbinum, Pes columbinus, G. rotundifolium*;—**Bloody cranes' bill, G. sanguineum*;—*Blue doves' foot, G. batrachyoides*. Astringent and detersive; used in poultices.

AMERICAN CRANES' BILL, *Geranium maculatum*. Root, *geranium*, P. U. S. boiled in milk, used in the cholera of infants.

BULBOUS-ROOTED CRANES' BILL, *Geranium tuberosum*. Root in wine used as a wash in inflammation of the vulva.

NASTURTIUM, *Indian cress, Tropæolum majus*; *Smaller nasturtium, T. minus*.—Eaten in salads, antiscorbutic, excite the appetite, assist digestion; externally used in stubborn itch.—*T. tuberosum*. Root eaten.

***YELLOW BALSAM**, *Touch me not, Impatiens noli tangere*. Herb diuretic, capable of producing a diabetes; but extremely uncertain in its operation.

***GREEN SAUCE**, *Wood sorrel, Alleluja, Lujula, Acetosella, Trifolium Acidum, Oxalis acetosella*;—**O. corniculata*. Herbs in salads very refreshing, acidulous, antiputrescent; make a very pleasant whey; used for the extraction of salt of sorrel.

JAMAICA WOOD-SORREL, *Oxalis stricta*;—*O. compressa*;—*O. frutescens*;—*O. dodecandra*. Acid, cooling.—*O. tuberosa*. Root like potatoes; herb acid.

156. SARMENTACEÆ.

GRAPE VINE, *Vitis, V. vinifera*. Numerous varieties of this plant are cultivated; fruits, *grapes, uvæ*, esculent, juice made into a variety of wines, also inspissated, and made into sugar.—*Dried grapes, Uvæ siccatae*. From Barbary, in jars.—*Raisins of the sun,*

Uvæ passæ majores. These and the other raisins are prepared by being left to wither a little on the vine, the stalk being cut half way through, then gathered and dipped in a ley of wood ash, and barilla at 12 to 15 deg. Baume, or spec. gr. 1.094 to 1.116, to every four gallons of which are added a handful of salt, and a pint of oil or a pound and half of butter, and then drying them in the sun; they lose about two-thirds of their weight, and become covered with a saccharine exudation;—*Denia raisins, Malaga raisins*;—*Valencia raisins*;—*Belvidere raisins*;—*Lexia raisins*;—*Muscatel raisins*;—*Bloom raisins*;—*Sultana raisins, Uvæ apyrenæ.* (Small, yellowish red, without stones);—*Black Smyrna raisins*;—*Red Smyrna raisins*;—*Currants, Uvæ minores Corinthiæ*;—*East Indian raisins, Kishmish.* From the small Shiraz grapes.—All these dried grapes are used for food, or fermented with water and made into wine.—*Rape, Vinacea.* The cake left on pressing grapes; it is fermented with water, and distilled for brandy.
Official preparations.—Decoctum althææ, *D. F.* Decoct. guaiaci comp., *E.* Decoct. hordci comp., *D. L.* Tinct. cardam. comp., *L.* Tinct. sennæ, *L.*

157. MELIACEÆ.

WINTERA CANELLA. Berry aromatic, used as a spice; bark, *white cinnamon, canella alba, canellæ cortex*, rolled, peeled, whitish, thicker than cinnamon, pungent, and sweet smelling; warm, stimulant, antiscorbutic; dose gr. x to 3ss; used also as a sternutatory; alouchi is said to be the produce of this tree.

AZEDARACH, BEAD TREE, *Melia azedarachta.* Seeds yield oil; bark, *azedarachta*, P. U. S. used for the Peruvian; leaves vulnerary, vermifuge, diuretic: pulp of the fruit poisonous; trees yield gum, and also toddy.

RED WOOD TREE, *Swietenia febrifuga.* Bark astringent, tonic, used as a substitute for Peruvian bark; dose, in powder, 3ss.

MAHOGANY, *Swietenia mahogani.* Wood astringent, an extract is made from it.

BARBADOES CEDAR, *Cedrela odorata*;—*Cedrela rosmarinus.* Wood slightly odoriferous, anti-rheumatic; yields a resin.

TOONA, *Poma, Cedrela Toona.* Bark used as a febrifuge.

TRICHILIA SPONDIROIDES. Wood, *bastard brasil*, used in dyeing.—*T. spinosa.* Berries boiled for their oil.

GUAREA TRICHILIOIDES. Bark emetic and purgative.

158. HESPERIDÆ.

Fruits generally acidulous, refreshing.

CITRONTREE, *Citrus medica, C. vulgaris.* Fruit, *citria malus*,

citrus, excites the appetite, stops vomiting, is acidulous, antiseptic, antiscorbutic, and used along with cordials, as an antidote to the manchineel poison; rind of the fruit, *citri cortex*, aromatic, tonic, yields essence de cedrat; seeds bitter, vermifuge.—*Candied citron peel, cortex citri condita*. Soak the peels in water frequently changed, until their bitterness is exhausted, put them into syrup, until they become soft and transparent, then take them out and drain them; stomachic, and used as a sweetmeat.

LEMON TREE, *Citrus medica acida, C. limonum*. Fruit, *lemon, limonia malus*, imported from Malaga and Lisbon in chests, each lemon in a separate paper; juice of the fruit more acid than that of the citron; rind of the fruit, *limonum cortex*, aromatic, not so hot as orange peel; yields essence of lemons;—*Candied lemon peel, cortex limonum condita*. Prepared as candied citron peel; a stomachic sweet meat.

SEVILLE ORANGE TREE, *Aurantium Hispalense, Citrus aurantium*. Leaves and flowers antispasmodic, cordial, ʒss to ʒj, bis terve in die, or 'in a decoction; fruit, *Seville orange, aurantia malus, aurantia bacca*; imported from Seville; rind of the fruit, *aurantii cortex*, bitter, stomachic; unripe fruit, *orange peas, Curasso oranges, bacca aurantia, aurantia Curaslavensia, aurantia Curas-soventia*, used to flavour liqueurs, and for issue peas.—*Candied orange peel, cortex aurantium condita*. Made the same way as candied citron peel; stomachic.

ORANGE TREE, *Aurantium Chinense, Citrus Sinensis*. Fruit, *sweet orange, China orange*, sweet; imported from Faro, Lisbon, Port St. Michael's; price very variable; juice of the fruit contains a saccharine, as well as an acid matter; mixed with salt is a common purge in the West Indies; flowers, *naphæ*, sweet scented, used to make orange-flower water; are collected every morning in May and June, for thirty miles round Paris, from both public and private gardens; buds, *aurantia flores*, that fall from the trees, used to make orange-flower water.—*Candied orange flowers, Flores aurantium conditi*. Orange flowers, freed from their cups, stamina and pistils, four ounces are put into lb. ij of sugar, boiled to a candy height, and poured on a slab, so as to be formed into cakes; stomachic, antispasmodic.—*Malta orange*. Pulp red, juice very sweet.—*East Indian small clove orange, Chota chia*. Rind used to make the best orange marmalade.—*East Indian country orange, Koula*. Pulp austere and coarse; rind added in small quantity to orange marmalade to give it an agreeable bitterness.

BERGAMOT ORANGE TREE, *Bergamot lemon tree, Citrus medica Bergamotta, Limon Bergamotta, C. sinetta Bergamium*. Rinds of the fruit very thick, yield essence of Bergamotte.

SHADDOCK, *Pampelmus; Citrus decumana.* Fruit very large, esculent.

LIME TREE, *Citrus medica acida, C. acida, C. limetta.* Fruit, lime, limetta, used to rub floors to cleanse them and also scent the rooms; juice of the fruit very acid, and even acrid, used to acidulate spirituous drinks.

159. THEACEÆ.

THEA OLEOSA. Seeds expressed yield a fine limpid oil.—**BLACK TEA, *Thea bohea.*** Leaves, in weak infusion, stomachic, favour digestion, raise the spirits, an excellent diluent.

Des Guignes gives the following characters of the different kinds of black tea, as he observed them in China, using the common English orthography, with their usual price at Canton: they are supposed to be picked from old trees, and are dried in shallow pans over charcoal fires.

1. **BOHEA TEA, (*Vo he*, the name of a place,) is of a black cast, and yields a deep yellowish infusion; sells in China for 12 to 15 taels.**

2. **CONGOU TEA, (*cong fou*, great care,) the infusion is lighter than that of bohea, rather green, and seldom of an agreeable smell; preferred by the Chinese and Indian islanders for their own use.**

3. **SOUTCHONG TEA, (*se ow chong*, a very little sort,) the infusion is a fine green, smells agreeably; the leaves ought to have no spots on them.**

4. **PEKAO TEA, (*pe kow*, white leaf bud,) the infusion is light and rather green, has a violet scent, and a very fine perfume in the mouth.**

5. **IMPERIAL TEA (*mao tcha*), has a green cast, the infusion is also green; the leaves large and of a fine green; has a slight smell of soap.—To these may be added, *Campoï tea*, which is intermediate between congou and souchong.**

6. **PADRE TEA, (*pou chong tcha*), a very fine souchong, imported in pound papers, for presents; being the best and most delicious.—*Caper tea*, made into balls with gum, and scented, imported only in small boxes.**

GREEN TEA, *Thea viridis.* Doubtful whether a distinct species, or only the young leaves of the bohea, slowly dried in the shade: the infusion narcotic in a small dose, and appeases the qualms of intoxication, but taken largely brings on watchfulness, nervous agitation, and is even emetic: this irritability is best allayed by butter-milk.—The green teas of Des Guignes are,

1. **SONGLO TEA, (from the place where it is grown,) has a**

leaden cast, the infusion is green, the leaves are longer, and more pointed than the black teas; the inferior sorts have yellow leaves and a smell of sprats.

2. **HYSON TEA**, (*he tchune*, first crop,) is of a leaden cast, the infusion is a fine green, the leaves are handsome, without spots, and open quite flat; it has a strong taste, and a slight smell of roasted chesnuts.

3. *Tchu tcha*, of which he gives no characters.—Besides these, there are imported into England, these green teas: *Hyson skin*, or *bloom tea*, being the large loose leaves of the hyson; a faint delicate smell; infusion a pale green; the bloom is given by means of indigo heated under it.—*Superior hyson skin*, intermediate between hyson and hyson skin.—*Gunpowder tea*, a superior hyson in small round grains, of a blooming greenish hue.—*Cheliun*, or *cowslip hyson*, a scented hyson, mixed with small berries, that give it a cowslip flavour.—The *Ankoy teas*, obtained from An Khe, have the same appearance as the Canton teas, but are inferior in flavour, and generally sell from 4d. to 1s. a lb. lower. They are supposed to be picked from wild tea plants. The leaves of tea having little or no smell, they are rendered fragrant by mixing with them the leaves of *Olea fragrans*, and *Camellia sesanqua*. The leaves of *Polygala theezans*, and of *Rhamnus theezans*, are also mixed with China tea.

China tea is not turned black by being put into water impregnated with sulphuretted hydrogen gas, nor does it tinge spirit of hartshorn blue. The infusion is amber coloured, and is not reddened by adding a few drops of oil or spirit of vitriol to it. The leaves of speedwell, wild germander, black currants, syringa or mock orange, purple-spiked willow herb, sweetbriar, cherry tree, sloe, are all substituted for tea, either singly or mixed. In foreign countries a variety of plants are used instead of Chinese tea, as *Capraria bifolia*, *Alstonia theæiformis*, *Gualtheria procumbens*, *Myrtus ugni*, *Leptospermum scoparium*, *Ceanothus Americanus*, *Prinos glaber*, *Ledum latifolium*, *Chenopodium ambrosioides*, *Monarda halmiana*, *Psoralia glandulosa*, *Cassine peragua*. *Zenopoma thea Sinensis* is beginning to be cultivated in France as a substitute for Chinese tea. In Hindustan, those with whom the common tea does not agree use an infusion of lemon grass, or of *Ocymum album*.

JAPANESE CAMELLIA, *Camellia Japonica*. Leaves frequently mixed with those of tea by the Chinese.—*C. sesanqua*. Leaves used for those of tea, are odoriferous, and are also added to tea to scent it; seeds expressed for their oil.—*C. drupifera*. Nuts expressed for their oil.

160. PASSIFLOREÆ.

PASSION-FLOWER, *Passiflora cœrulea*;—*Wild passion-flower*, *Contragyna*, *P. normalis*;—*Red passion-flower*, *P. incarnata*.
Roots sudorific.

BULL HOOF, *Dutchman's laudanum*, *Passiflora murucuja*. Herb made into a syrup, or flowers infused in rum, narcotic, used for laudanum.

WATER LEMON, *Passiflora maliformis*:—*Sweet calabash*, *P. laurifolia*;—*Granadilla*, *P. hexangularis*. Fruit esculent.

PAPAW, *Carica Papaya*. Fruit nutritive; seed an excellent vermifuge; leaves saponaceous; milky juice corrosive, is mixed with water, and used to wash meat to make it tender.

161. VIOLACEÆ.

POMBOLIA IPECACUANHA, *Inodium ipecacuanha*, *Viola ipecacuanha*. Root, *white ipecacuanha*, emetic, milder than the false kinds, but mostly adulterated with them; dose gr. v to ʒij; in small doses, gr. ss to gr. ij, given frequently, it is diaphoretic, expectorant, and stomachic. In both methods it is antidysenteric; gr. v, or enough to excite nausea, given an hour before the fit, has been successful in intermittents.

VIOLA IBONBOU;—*V. parviflora*. Roots emetic.

***DOG VIOLET**, *March violet*, *Viola canina*;—**Purple violet*, *Viola odorata*, (petals made into syrup)—**Hearts ease*, *Pensée*, *Viola tricolor*. Flowers moistening, pectoral; seeds diuretic; roots expectorant, slightly emetic, and in doses of ʒj, cathartic.

AMERICAN VIOLET, *viola*. P. U. S. *Viola pedata*. Root emetic.

162. CISTINEÆ.

The plants of this order are astringent or pectoral.

***DWARF CISTUS**, *Little sun-flower*, *Helianthemum Anglicum luteum*, *Cistus helianthemum*;—*Cistus pumana*;—**C. guttatus*, and the other species are astringent. The parasitic plant *hypocistus*, *Cytinus hypocistus*, grows chiefly on the *Cistus incanus*.—*C. Creticus*, *C. Laurifolius*. Yields labdanum.—*C. ladaniferus*. Yields the inferior sort of labdanum.

MALE HOLLY ROSE, *Cistus mas*, *C. villosus*;—*Female holly rose*, *C. fœmîna*, *C. salvifolius*. Leaves and flowers are astringent.

163. LINEÆ.

***FLAX**, *Linum*, *L. usitatissimum*. Seeds, *lini usitatissimi*, *linseed*, emollient, diuretic; yield oil; imported from Russia

Poland, and North America.—*Linseed cake, lini placenta*. Left after the oil has been pressed out; used for feeding cattle and broken winded horses.—**Dwarf wild flax, Mill mountain, L. catharticum*. Purgative in doses of 3ss to 3j.—*L. selaginoides*. Herb bitter, and aperitive.

164. CARYOPHYLLÆ.

FIELD PINK**, *Caryophyllus arvensis, Holosteum umbellatum*;—CHICK WEED**, *Alsine, A. media*;—*A. mucronata*;—***SPURRY**, *Spergula arvensis*;—***MOUSE-EAR CHICK WEED**, *Alsine hirsuta myosotis, Cerastum vulgatum*;—***BROAD-LEAVED MOUSE-EAR CHICK-WEED**, *Alsine hirsuta altera viscosa, Cerastum viscosum*;—***GREAT MARSH CHICK-WEED**, *A. aquatica major, C. aquaticum*;—***CORN MOUSE-EAR**, *C. arvense*;—*C. repens*. All cooling, moistening herbs, nourishing cattle, used as spinach.

***SAND WORT**, *Arenaria media*. Externally used in whitlows and other inflammations.—*A. peploides*. Herb fermented and made into Iceland beer.

***SEA SPURRY**, *Arenaria marina*. Very succulent.—*Pickled sea spurry*. Sold for samphire.

***GREAT STITCH-WORT**, *Stellaria holostea*;—*S. alsine*. Cooling, moistening, used as spinach.

GYPHOPHILA SAXIFRAGA;—*G. struthium*;—*G. muralis*. Lithontripitic; and used for soap-wort in lues.

COW BASIL, *Vaccaria, Saponaria vaccaria*. Seed heating, diuretic.

***SOAP-WORT**, *Saponaria, S. officinalis*. Attenuating, opening, antivenereal.

CLOVE PINK**, *Clove gillyflower, Caryophyllus ruber, Veronica, Dianthus caryophyllus*. Flowers, *tunicæ*, cephalic, cordial, anti-spasmodic, nervine, in doses of ʒj to ʒj; useful in heartburn and contagious fevers: the odour is improved by drying.—**ÆILLET DES CHARTREUX**, *Dianthus Carthusianus*;—DEPTFORD PINK**, *Caryophyllus pratensis, Dianthus armeria*;—**SWEET WILLIAM**, *D. barbatus*;—**FRINGED PINK**, *D. superbus*;—***STONE PINK**, *Maiden pink, D. arenarius*, and the other species of dianthus, have similar qualities but weaker.

GREAT SAXIFRAGE, *Saxifraga antiquorum, Silene saxifraga*. Herb used in calculous disorders.—**Lobel's catch-fly, Behen album, Silene armeria*;—*Red catch-fly, Silene muscipula*;—*S. behen*. Roots cordial.—*S. Virginica*. Root in decoction vermifuge.

***SPATLING POPPY**, *White battle, White behen, Behen album, Cucubalus behen*;—**Campion, Bachelor's button, Lychnis dioica*;—**Catchfly, L. viscaria*;—**Cuckoo flower, Meadow-pink, L. flos cuculi*. Roots cordial.

***COCKLE**, *Agrostemma githago*;—*Rose campion*, *A. coronaria*;—*A. flos Jovis*;—*A. cæli-rosa*. Roots vulnerary, astringent; seeds purgative.

165. CUSPARIÆ.

CUSPARIA *febrifuga*, *Bonplandia trifoliata*. Bark, *angostura bark*, *cuspariæ cortex*, in pieces of different lengths, aromatic, intensely bitter, tonic, stimulant, very useful in dyspepsia, diarrhœa, and dysentery; dose gr. v to xx. Imported from Cadiz and the West Indies, in casks.

? **CAROLINA SHRUB TREFOIL**, *Ptelea trifoliata*. Fruit bitter, aromatic, used as a substitute for hops.

166. ZANTHOPHYLLÆ.

JAPAN PEPPER, *Piper Japonicum*, *Fagara piperita*. Bark, leaves, and fruit aromatic, used as spice.

CACATIN, *Fagara Guianensis*. Used as spice.—*F. octandra*. Yields *tacamahaca* in the shell.

TOOTH-ACH TREE, *Zanthoxylum clava Herculis*. Leaves sudorific, diuretic, sialogogue, even taken internally, used in rheumatism and palsy; expressed juice of the roots, coch. ij, antispasmodic; roots, in infusion, used as a collyrium, powder of the bark of the roots useful in dressing putrid sores.

PRICKLY ASH, *Prickly yellow wood*, *Zanthoxylum Caribbæum*, *Z. fraxineum*. Bark, *zanthoxylon*, P. U. S. febrifuge, dyes yellow.

RAVENTSARA, *Evodia aromatica*, *Agathophyllum aromaticum*, *E. ravensara*, *Ravensara aromatica*. Bark aromatic, red; nut resembles both cloves and pimento; kernel extremely hot, biting, with a strong spicy smell; leaves an excellent tonic cordial spice, form an agreeable cordial, yield an oil.

BASTARD DITTANY, *Fraxinella*, *Dictamnus albus*. Root rather bitter, cordial, cephalic, alexiterial, uterine, anti-epileptic, vermifuge, in powder ℥j, twice a day.

167. DIOSMEÆ.

BUCKHO, *Diosma Crenata*. Powder of the leaves strong smelling, tonic, astringent, and diuretic. In gleet, and other diseases of the urinary passages. Also in dyspepsia and chronic diarrhœa. *Official preparations*.—Tinct. et infus. buchu, *D.*

168. RUTACEÆ.

***RUE**, *Ruta hortensis*, *R. graveolens*. Leaves, *ruta folia*,

powerfully resolvent, emmenagogue, carminative, diuretic; also alexiterial, nervine, cephalic, antispasmodic, and anaphrodisiac; dose gr. xv to ʒij; externally rubefacient.

NARROW-LEAVED RUE, *Ruta angustifolia*. Vermifuge.

WILD RUE, *Harmel*, *Ruta sylvestris*, *Peganum harmala*. *Seeds very inebriating, soporific, causing a happy forgetfulness and pleasant delirium.

169. ZYGOPHYLLÆ.

CALTROPS, *Tribulus terrestris*. Herb detersive, astringent, vermifuge; seeds cordial.

BEAN CAPER, *Zygophyllum fabago*. Vermifuge.

LIGNUM VITÆ TREE, *Guaiacum*, *G. officinale*;—*Lignum sanctum*, *G. sanctum*. Wood, *guaiaci lignum*, resinous, hot, aromatic, diaphoretic, diuretic, when used in dropsy, gout, and especially in the venereal disease in warm climates; yields gum guaiacum; leaves detergent, used in scouring floors, and washing printed linens. *Official preparations of the wood*.—Aqua calcis comp., *D.* Decoctum guaiaci comp., *D. E.*

PORLIERA HYGROMETRA. Wood sudorific, antirheumatic.

170. SIMAROUBÆ.

Bark and wood intensely bitter, and devoid of astringency.

STAVE WOOD, *Mountain damson*, *Simarouba*, *Quassia simarouba*. Bark, *simaroubæ cortex*, inodorous, bitter, astringent, useful in dysentery, intermittent fever, dyspepsia, the whites; dose ʒj to ʒss. From the West Indies. *Official preparation*.—Infus. *simaroubæ*, *D. L.*

QUASSIA, *Coissi*, *Quassia amara*. Wood of the root, *quassia lignum*, very bitter, febrifuge, stomachic, used in gout; dose gr. x to ʒj, three or four times a day, or in infusion: used by brewers instead of hops; and pastry-cooks, &c. put a few chips into a plate of water, as a poison for flies: bark of the root esteemed in Surinam the most powerful, but not to be had in Europe.

QUASSIA EXCELSA. The same qualities, but weaker. *Official preparation*.—Infus. *quassia*, *D. L.* Tinct. *quassia*, *D. E.*

BITTER WOOD, *Quassia polygama*. Wood makes a good bitter infusion, ʒij—iv to 1lb. cold water; or the powder, gr. xv, may be taken.

171. OCHNACEÆ.

WALRERA SERRATA, *Messia serrata*. Root and leaves bitter, tonic, stomachic, and anti-emetic.

17. ELÆOCARPEÆ.

GANISTRUM, *Dicera serrata*, *Elæocarpus serratus*;—*Ganistrum oblongum*, *Elæocarpus integrifolius*. Fruit eaten, either raw, or preserved in sugar or salt and vinegar, strengthening.

PÆNOE, *Vateria Indica*, *Elæocarpus copalliferus*. Yields Moschat rosin, pænoe tallow, and pænoe varnish.

174. TILIACEÆ.

LIME, *Linden*, *Bast*, *Tilia Europea*. Flowers anti-spasmodic, cephalic; bark and leaves drying, astringent, diuretic, emmenagogue; berries astringent; slime of the bark used in burns and wounds.

JEW'S MALLOW, *Bhungee paut*, *Corchorus olitorius*;—*Gheenaltha paut*, *C. capsularis*. Leaves emollient, eaten as spinach in hot countries.

ANNOTTO PLANT, *Bixa Orellana*. Yields annotto.

GREWIA ORIENTALIS. Fruits and leaves boiled in water to make a kind of drink.

SCHAGERI COTTAN, *Grewia microcos*, *Microcos paniculata*. Juice with sugar used as an astringent gargle, also internally in dysentery.

BRANDEWYN BOSCH, *Grewia flava*, *G. orientalis*. Berries make a spirituous liquor.

COUROU MOELLI, *Flacourtia sepiaria*. Fruit delicious, eatable; a decoction of the bark in oil used against gout; a decoction of the leaves and root in cows' milk used as an antidote against the bite of serpents.—*Flacourtia ramontchi*;—*F. sapida*;—*Spina spinarum*, *Jamgornas*, *Stigmarota jamgornas*. Fruits eaten.

VALLEA CORDIFOLIA. Leaves dye cloth yellow.

ABATIA RUGOSA, *A. parviflora*. Leaves dye black.

175. STERCULIACEÆ.

KOLA, *Sterculia acuminata*. Fruit, *kola nuts*, much esteemed in Africa, as brackish water tastes well after eating them.—*S. urens*. Yields gum kuteera.

CAVALAM, *Clompanos minor*, *Sterculia balanghas*. Pulp of the fruit esculent, kernels toasted and eaten.

KARIL, *Clompanos major*, *Sterculia digitifolia*, *S. fœtida*. Root, leaves, and fruit, in decoction, useful in pains of the joints.—*S. platanifolia*. Seeds pressed for their oil.

176. MALVACEÆ.

*COMMON MALLOW, *Malva communis*, *M. sylvestris*;—*Dwarf

mallow, *Malva rotundifolia*;—*Curl-leaved mallow*, *Malva crispa*;—**Vervain mallow*, *Alcea*, *Malva alcea*.—**Musk mallow*, *Malva moschata*. All these herbs are eminently emollient and moistening, proper to cool and open the belly; flowers pectoral.

***MARSH MALLOWS**, *Althæa*, *Bismalva*, *Ibiscus*, *Althæa officinalis*. Roots, *althææ radix*, and leaves, *althææ folia*, very emollient, particularly useful in diseases of the bladder; flowers pectoral. *Official preparation*.—Decoct. *althææ*, D.E. Syrup. *althææ*, L.

ALTHÆA HIRSUTA;—*Holly hock*, *Malva arborea*, *Alcea rosea*;—**Tree mallow*, *M. arborea*, *Lavatera arborea*;—*L. triloba*;—*L. Thuringiaca*;—*Sida rhomboidea*;—*Indian mallow*, *Sida abutilon*. Leaves emollient, cleansing to ulcers; seeds opening, diuretic.—*Sida cordifolia*. Mixed with rice, used in dysentery.

MUSK MALLOW. *Musk ochra*, *Bamia moschata*. *Hibiscus abelmoschus*. Seeds, *musk seeds*, *grains d'ambrette*, smell like musk, are cordial, cephalic, stomachic, and emetic; used in coffee; and mixed with hair powder.

OKRA, *Hibiscus esculentus*. Unripe pod used as a pot-herb, contains a kind of gelatine; decoction of the leaves and pods demulcent, pectoral.

GUINEA SORREL, *Red sorrel*, *Hibiscus sabdariffa*. Herb acid, refreshing, diuretic.—*H. rosa Sinensis*. Flowers astringent.—*H. Suratensis*;—*H. cannabinus*. Acidulous.

COTTON, *Bombax*, *Gossypium herbaceum*. Seeds pectoral, anti-asthmatic; down of the seeds used as a caustic, instead of moxa; young buds very mucilaginous, pectoral.—*Gossypium Barbadosense*. Seeds pressed for oil.—*Bombax pentandrum*. Yields cotton-tree gum.

CACAO, *Theobroma cacao*. Seeds, *chocolate nut*, *island cacao*, *cacao des Antilles*, *cacao des isles*, *cacao Antillanum*, flattened, covered with a red paper-like envelope, kernel brown, fat, taste agreeable, slightly acrid; yields oil; chocolate and cacao are made from it.—*Caracca cacao*, *Cacao Caraque*, *Cacao Curaccense*. Seed larger, round, covering reddish brown, kernel pale brown, friable, dry and strong tasted, is often mouldy, as having been buried for thirty or forty days, to get rid of some of their acridness.

WILD CACAO, *Serjeant*, *Pachera aquatica*, *Carolinea princeps*. Seeds esculent, similar to almonds.

BAOBAB *Adansonia digitata*. Emollient; fruit acidulous, used in pulmonary affections, and for tamarinds.

BUTTNERIA CORDATA. Leaves applied to the bites of spiders.

MUCHUCUNDA, *Pentapetes*. Flowers, expressed, yield a mucilaginous and refrigerant juice, used in gonorrhœa.

178. MENISPERMEÆ.

CABATHA, *Menispermum edule*. Berry esculent, but acrid, producing an intoxicating liquor by fermentation.

COCCULUS INDICUS, *Menispermum cocculus*. Capsules acrid, used to intoxicate fish, and to destroy vermin; also by brewers, to give a false strength to beer.

KALUMB, *Menispermum hirsutum*, *M. columba*. Root, *colombo root*, *calumbæ radix*, bitter, aromatic, stomachic, anti-emetic, astringent; dose ʒss frequently in a day: in transverse slices, one or two inches diameter, and not half an inch thick, covered with a bark: imported from Mozambique in bags or cases. *Official preparations*.—Tinct. et infus. calumbæ, *D. L. E.*

RED COLUMBO, *Menispermum palmatum*. Root stomachic, bitter.—*M. cordifolium*. Tonic and febrifuge.—*M. lacunosum*. Fruit used to intoxicate fish and birds.

WHITE PARIERA BRAVA, *Velvet leaf*, *Cissampelos pariera*. Trunk or root, in powder, ʒj to ʒij; or in infusion, ʒiij to lb. j water, for three doses; diuretic, very useful in obstructions, dropsy, or gravelly complaints.

LIANE A GLACER L'EAU, *Timac?* *Cissampelos caapeba*. A very powerful diuretic, in use among the negroes in Martinique against bites of serpents.

BROWN PARIERA BRAVA, *Menispermum abuta*, *Abuta rufescens*. The same qualities as the white pariera brava.—**BITTER PARIERA**, *Abuta amara*. Root bitter.—*Liane amere*, *A. candicans*. Root bitter.

LARDIZABALA BITERNATA. Berry esculent.

FUNIS FELLEUS. *Menispermum crispum*, *M. tuberculatum*. Bark esteemed equal to that of the Loxa or Peruvian bark tree.

EPIBATERIUM TOMENTOSUM. Bark extremely bitter.

179. ANNONACEÆ.

UVARIA TRIPETALOIDEA. Yields a gum by incision.

UVARIA AROMATICA, *Unona Æthiopica*. Capsules, *Monkey pepper*, *Grains de zelim*, *Ethiopian pepper*, *Piper Æthiopicum*, very aromatic, heating, used to flavour liqueurs.

UNONA FEBRIFUGA. Bark *chininicha bark*, febrifuge, superior to Peruvian bark.—*Unona discreta*. Fruit aromatic.

CANAGNA VIRGATA, and some other species. Fruits aromatic, very heating.

ASIMINA TRILOBA. Fruit fleshy, juice very acid.

SOUR SOP, *Annona muricata*. Root, in decoction, used against fish poison; fruit eatable; inner bark made into bast.

NETTLE CUSTARD APPLE, *Annona reticulata*;—*Sweet sop*, *A. squamosa*;—*Water apple*, *Alligator apple*, *A. palustris*. Fruits esculent; imported from the West Indies, preserved in syrup.

BITTER WOOD, *Hylopia glabra*, *Xylopicrum*, *Picroxyton*
Fruit eatable.

PORCELIA NITIDIFOLIA. Fruit grateful, leaves yield a yellow colour.

MOLLINEDIA REPANDA. Fruit yields a purple colour.—*M. ovata*. Fruit yields a violet colour.

180. MAGNOLIACEÆ.

Bark of these trees is bitter, astringent, or aromatic.

WINTERANA AROMATICA, *Drymis Winteri*. Bark, *Winter's cinnamon*, *Winter's bark*, *cortex Winteranus*, thick, channelled across on the outside, grey, much cracked; on the inside solid, iron grey; sharp-tasted, aromatic, very fragrant; used in scurvy, vomiting, and palsy; rare at present, being not in such esteem as *canella alba*; dose, in powder, gr. x to ʒj; from America.—

CANELO, *Drymis magnoliæfolia*;—*Drymis granatensis*, and two other species, not well known. Bark slightly bitter, very acrid, heating, and aromatic.

DRYMIS? Bark, *melambo bark*, febrifuge; contains the bitter principle without any tannin or gallic acid.

STAR ANISE, *Anisum stellatum*, *Illicium anisatum*. Seeds fine scented, stomachic, make excellent liqueurs; also burnt as incense; yield an essential oil; capsules, East Indian.

VIRGINIA TULIP-TREE, *Liriodendron tulipifera*. Root and bark smell like essence of bergamot, and are used to flavour liqueurs, bark of the root, *liriodendron*, P. U. S., used in fevers, contains only the bitter principle without tannin or gallic acid.

ELEPHANT WOOD, *Magnolia Plumieri*, *Annona dodecapetala*, *Falauna Plumieri*. Flowers distilled with spirit into a spirituous liqueur.—*Magnolia glauca*;—*M. grandiflora*;—*M. auriculata*;—*M. acuminata*;—*M. tripetala*. Bark febrifuge; used for the Peruvian; flowers strongly scented, causing nausea, headach, and even fever.

TSIN-Y, *Yu-lan*, *Magnolia precia*, *M. Yu-lan*. Seeds bitter, febrifuge; flowers used in perfumery.

CHAMPAC, *Michelia Champsaca*, *M. suaveolens*. Flowers used in perfumery.

181. DILLENIACEÆ.

DILLENIA SPECIOSA,—*D. elliptica*. Fruits used to acidulate cooling drinks.

182. RANUNCULACEÆ.

Plants acrid; many are poisonous.

CLEMATIS MAURITIANA. Used as a vesicatory.

WILD TRAVELLER'S-JOY, *Clematis vitalba*. Bark and herb caustic, raising blisters, ophthalmic; young shoots eaten as a pot-herb.—*C. flammula*;—*C. erecta*. Caustic, burning; used for issues and venereal ulcers; seeds drastic; leaves used outwardly in leprosy, internally, ʒij or iij in lbj boiling water, the infusion to be drunk in a day and night, in inveterate syphilis.

VIRGIN'S BOWER, *Clematis*, *C. viticella*;—*Atragene Alpina*. Leaves used as a poultice in leprosy; seeds purgative.

***LESSER MEADOW-RUE**, *Thalictrum minus*;—*T. aquilegifolium*;—*T. angustifolium*. Roots and herbs bitter, purgative, diuretic, useful in old ulcers and the jaundice.

***SPANISH MEADOW-RUE**, *Pseudo-rhabarbarum*, *Thalictrum flavum*;—**Meadow-rue*, *English rhubarb*, *T. majus*. Roots substituted for rhubarb, requires a double dose.

YELLOW ANEMONE, *Anemone vernalis*;—*A. pratensis*;—**Wood-anemone*, *Wood-crowfoot*, *A. nemorosa*;—*White wood-anemone*, *A. sylvestris*. Plants acrid, caustic, exulcerating, used in gout and rheumatism; being chewed, they act as sialogogues; flowers poisonous.

***PASQUE FLOWER**, *Pulsatilla*, *Anemone pulsatilla*. Root acrid, sternutatory; leaves detersive.

GARDEN ANEMONE, *Anemone coronaria*. Less caustic.

HEPATIC, *Hepatica nobilis*, *Trifolium aureum*, *Anemone hepatica*. Aperitive, vulnerary, useful in diabetes and dysentery; leaves detergent in diseases of the skin, or in gargles.

***LESSER CELANDINE**, *Pilewort*, *Chelidonium minus*, *Ranunculus ficaria*. Juice of the root acrid, styptic, useful in piles, being weakened with wine or beer; leaves caustic, but mild, and eaten in Sweden, according to Linnæus.

***LESSER SPEAR-WORT**, *Ranunculus flammæus minor*, *R. flammula*;—**Great spear-wort*, *R. flammæus major*, *R. lingua*;—*Alpine crow-foot*, *Thora*, *Ranunculus thora*. Very acrid, cauterises the skin; poisonous to man and horse.

***UPRIGHT MEADOW CROW-FOOT**, *Buttercups*, *Ranunculus acris*.

Equally caustic; root used, when dry, as a febrifuge in intermittents.

***ROUND-ROOT CROW-FOOT**, *Ranunculus*, P. U. S., *R. bulbosus*. Very acrid, kills rats, but not sheep; root used as a vesicatory; yields a nutritive fæcula.

MARSH CROW-FOOT**, *Ranunculus palustris*, *R. scleratus*;—Water crow-foot**, *R. aquatilis*;—***Corn crow-foot**, *R. arvensis*. Very acrid and poisonous, but eaten by animals in some countries.

***WOOD CROW-FOOT**, *Ranunculus auricomus*. Less acrid, used while young as a potherb. By drying, most of the ranunculi lose their acridness.

***CROW-FOOT**, *Ranunculus*, *R. repens*. Herb used as a potherb while young.—**White-flowered crow-foot**, *Ranunculus montanus*, *R. aconitifolius*. Herb used to cure intermittents, by being applied to the wrists.

***MARSH MARIGOLD**, *Caltha palustris*. Herb acrid, caustic, useful externally in diseases of the reins or loins.

***PEONY** *Pæonia officinalis*. Root and seeds anti-epileptic, emmenagogue.

MOUSE TAIL**, *Myosurus minimus*;—**Bird's eye**, *Adonis vernalis*;—Pheasant's eye**, *Red morocco*, *A. autumnalis*. Astringent; roots bitter.

***HERB CHRISTOPHER**, *Bane berries*, *Christophoriana*, *Actæa spicata*. Vulnerary, astringent; juice of the berries affords a deep black dye.—*A. racemosa*. Root, infused in spirit, used in rheumatic pains; used also in astringent gargles.

ZANTHORRHIZA APIIFOLIA. Root, *yellow root*, *zanthorrhiza*, P. U. S., extremely bitter; bitterness very permanent; makes a yellow lake.

HYDRASTIS CANADENSIS. Root, *Canada yellow root*, bitter, used for calumbo; gives out a most beautiful yellow colour.

BLACK HELLEBORE, *Christmas rose*, *Elleborus niger*, *Melampodium*, *Helleborus niger*. Root, *hellebori nigri radix*, nauseous, violently purgative both to man and horse, anthelmintic, diuretic and emmenagogue, also used as an exutory in cattle to keep open issues; dose in powder, gr. x to ʒj. *Officinal preparations*.—**Tinct. helleb. nig.**; *L. E. D.* **Extr. helleb. nig.**, *E. D.*

GOLD THREAD, *Coptis trifoliata*, *Helleborus trifolius*. Root a pure bitter, used in thrush; leaves dye yellow.

***WILD BLACK HELLEBORE**, *Bear's-foot*;—*Helleborus viridis*, *H. hyemalis*. Qualities the same as black hellebore.

EAST INDIAN BLACK HELLEBORE, *Helleborus orientalis*? Roots very different in appearance from the European; qualities the same.

***GREAT BASTARD BEAR'S-FOOT**, *Setter wort*, *Helleboraster maximus*, *Helleborus foetidus*. Leaves, *hellebori foetidi folia*, vermifuge, in powder, gr. x to 3ss or a decoction of ʒj; the juice (a little vinegar being added to moisten the bruised leaves) made into a syrup, is also used with advantage, a tea spoonful at night, and one or two in the morning.

***GLOBE CROW-FOOT**, *Locker gowlons*, *Ranunculus globosus*, *Trollius Europæus*;—*T. Asiaticus*. Equally acrid, and must be used with caution.

FENNEL FLOWER, *Devil in a bush*, *Nigella*, *Gith*, *Nigella sativa*;—*N. Indica*;—*N. arvensis*. Seeds acrid, oily, attenuant, opening, used as a spice.

***COLUMBINE**, *Aquilegia sylvestris*, *A. vulgaris*. Herb, flower, and seeds opening, acrid, diuretic, and used in detersive gargles.

CIMICIFUGA FÆTIDA. Root antispasmodic.

BLACK SNAKE ROOT, *Cimicifuga serpentaria*. Root, *cimicifuga*, P. U. S., used for rattle-snake root.

LARK'S SPUR, *Delphinium*, *Consolida regalis*, *Delphinium consolida*. Root, *delphinium*. P. U. S., vulnerary, consolidating wounds, ophthalmic.

UPRIGHT LARK'S-SPUR, *Delphinium Ajacis*;—*Siberian bee lark's-spur*, *D. elatum*. The same qualities as lark's-spur.

STAVESACRE, *Staphisagria*, *Delphinium staphisagria*. Seeds, *staphisagriae semina*, acrid, nauseous, imported from Turkey; kill lice and rats, purging violently in doses of gr. iij to gr. x; used as a masticatory in toothach, and also in apophlegmatizant gargles.

WOLFSBANE, *Aconitum lycoctonum*. Root poisonous, occasioning vertigo, stupor, and spasm; used to kill wolves.

PURPLE MONK'S-HOOD, *Aconitum*, *A. Neomontanum*. Leaves, *aconiti folia*, narcotic, powerfully diaphoretic and diuretic, in doses of gr. j, gradually increased.

EARLY BLUE WOLFSBANE, *Aconitum napellus*;—*Greater monk's-hood*, *A. cammarum*;—*A. Tauricum*. Are used indiscriminately for one another, and the leaves sold for those of aconitum.

WHOLESOME WOLFSBANE, *Yellow helmet flower*, *Anthora*, *Antithora*, *Aconitum anthora*. Roots cordial.

KNOWLTONIA VESICARIA. Used as a vesicatory.

PARTS OF PLANTS NOT KNOWN.

There are several roots, barks, and other parts of vegetables common in the shops of the native druggists in the English dominions in the East Indies, whose origin is unknown; some of

which are occasionally brought to Europe. They are enumerated by Dr. W. Ainslie in his very valuable *Materia Indica*, that they may be further investigated; for, as he justly observes, it is better that many things should be brought forward, although some may ultimately prove of little value, than that any one should be omitted which might become a valuable acquisition to medicine. Some of these which have been brought to Europe are here enumerated, and to these are added some African and American drugs and woods of unknown origin.

BARKS.

JUBABA. Taste and smell of vanilla, antispasmodic.

Massoy bark. Tonic.

Autour bark. Is it not the macer græcorum of the old physicians? Resembles coarse cassia, used in making fine carmine; from Turkey.

Angelinae cortex. Vermifuge, used in Granada.

Kilioorum puttay. Stomachic; resembles *Canella alba* in appearance and properties.

Vaymbadum puttay. Used as a red dye.

Pocgereba cortex. Used in dysentery; brought from America.

Unquentarius cortex. Slimy, used in ulcerous cases; brought from South America, perhaps from *Ulmus Americana*.

Chinese rice paper. Texture excellently adapted for flower painting; doubtful whether from an *Artocarpus* or a *Nelumbium*.

HERBS AND LEAVES.

Letchicuttay elley, folia de bunkool. Used in rheumatism, much esteemed by the Portuguese.

Agal agal. A mucilaginous alga, used to stiffen Chinese silks and paper.

ROOTS.

Lopezka jaar, radix Indica Lopezina, used in colliquative diarrhœa, and the last stage of consumption.

Pooda carapan puttay, Pau de merda, Pau sujo. Smells like human excrements; used in a liniment against inveterate itch.

Put chuck. Burned in China as a perfume.

Peepul mul, Pimple mool, Pipla more. Aromatic.

Behen album. Ascribed to *Cucubalus behen*; but this is doubted.

Behen rubrum. Ascribed to *Statice limonum*; but this is still more doubtful.

Gentiana Indica. Bitter, aromatic; brought by the Portuguese from India.

Sanctæ Helenæ radix. Aromatic, odour between galangale and cardamoms: brought from America.

Ikan. Similar to salep; brought from China.

Matalista. Purgative, ʒij; from America.

Pefaulina radix. Similar to scorzonera, rather sweetish; brought from China.

SEEDS.

Chouan. Resembles *semen santonicum*, used in making fine carmine.

Kanari nuts. Kernels taste like filberts, beat up with sago are made into cakes, and eaten as bread; yield a fine oil.

WOODS.

Bar wood. Red, used in dyeing; from Gaboon.

Bois de calambac de Mexique. Greenish brown, in large logs, sweet-scented, bitter, used by the French cabinet-makers; said to be brought also from Timor and Solor.

Pao aquila. Black, compact, heavy, resembles black ebony, sweet-scented, bitter.

Lignum rodium, Bois de rose du Levant, Bois de Chypre. Brought from Turkey, shavings sweet-scented, distilled for its oil.

Bois tapire. Veined red and yellow, sweet-scented; supposed to be a variety of *Sideroxylum inerme*; brought from Cayenne, in large logs.

Violet wood, Palisanten hout, Bois violet, Bois de paléxandre. Dark violet, close-grained, takes a fine polish, used by the cabinet-makers and violin-makers, for bows for stringed instruments; brought from the Dutch colonies in South America in large logs; perhaps *Acacia hæmatoxyton*.

Bois de la Chine. Reddish, liable to split, does not keep its polish; obtained by the French cabinet-makers from Holland.

Japans hout. Sold by the cwt.—*Nagel hout.* Sold by the single lb.—*Sacradaans hout.* Sold by the cwt.—*St. Marten's hout*;—*Salmoni hout.* From Amboyna.—*Rood eben hout.* From Mauritius.—*Cocus wood*;—*King wood*;—*Snake wood*;—*Tulip wood*;—*Brazil beef wood*;—*Botany-bay wood.* Probably *Evania resinifera*.

East India satin wood;—*Carabouca wood.* From a species of palm, finely veined and spotted.

SPECIES.

DENOMINATIONS COMPRISING SEVERAL VEGETABLES.

FOUR GREATER CARMINATIVE HOT SEEDS, *Quatuor semina calida majora carminativa*. Anise, Carui, Cummin, and Fennel.

FOUR LESSER HOT SEEDS, *Quatuor semina calida minora*. Bishop's weed, Stone parsley, Smallage, and Wild carrot.

FOUR COLD SEEDS, *Quatuor semina frigida*. Cucumber, Gourd, Melon, and Watermelon.

FOUR LESSER COLD SEEDS, *Quatuor semina frigida minora*. Endive, Lettuce, Purslain and Succory.

FIVE OPENING ROOTS, *Quinque radices aperientes*. Asparagus, Butcher's broom, Fennel, Parsley, and Smallage.

FIVE LESSER OPENING ROOTS, *Quinque radices aperientes minores*. Caper, Dandelion, Eryngo, Madder, and Restharrow.

FIVE EMOLLIENT HERBS, *Quinque herbæ emollientes*. Beet, Mallow, Marsh mallow, French Mercury, and Violet.

FIVE CAPILLARY HERBS, *Quinque herbæ capillares*. Hart's tongue, Black, White, and Golden maidenhair, and Spleen wort.

FOUR SUDORIFIC WOODS, *Quatuor ligna sudorifica*. Guaiacum, Perfumed cherry, Sarsaparilla, and Sassafras.

FOUR CORDIAL FLOWERS, *Quatuor flores cordiales*. Borage, Bugloss, Roses, and Violets.

FOUR CARMINATIVE FLOWERS, *Quatuor flores carminativi*. Camomile, Dill, Feverfew, and Melilot.

FOUR RESOLVENT MEALS, *Quatuor farinæ resolventes*. Barley, Bean, Linseed, and Rye.

THE FIVE MYROBALANS, *Myrobalani quinque*. Belleric, Chebulic, Emblic the most purgative, Indian, and Yellow the most astringent.

GLYSTER HERBS, *Herbæ pro enemate*. Mallow leaves two parts, and camomile flowers one part: an ounce and a half to a pint of water.

FOMENTATION HERBS, *Herbæ pro fotu*. Leaves of southernwood, tops of sea wormwood, and camomile flowers, each two parts, bay leaves one part: three ounces and a half to six pints of water.

CAKE SAFFRON, *Crocus in placenta*. Hay saffron one part, petals of marigolds or safflower nine parts, made into thin cakes with a little oil.

SPECIES FOR BITTERS. Rad. gentianæ ʒss; cort. cinch. ʒj; cort. aurant. ʒij; canellæ albæ ʒj; for two bottles of white wine.

2. Rad. gent. ʒij ; cort. aurant. ʒj ; cardam. minor. ʒss ; for a quart of brandy.

3. Rad. gent. -cort. aurant. sicc. ana ʒij ; cort. limon. recent. ʒss ; for a pint and a half of boiling water.

SPECIES FOR DIET DRINK, *Species pro decoctu lignorum*. Lign. guaiaci ʒjss ; rad. chinæ, -rad. sarsa. ana ʒij ; lign. sassafr. ʒiij ; rad. glycyrrh. sicc. ʒiv ; for three quarts of water.

2. Lign. guaiaci, -rad. sarsa. -rad. chinæ, ana ʒj ; sennæ electæ ʒss ; rad. rhæi ʒij ; for four quarts of water ; to which add, before it is boiled, subcarb. potassæ ʒj ; antimonii crudi ʒiiij : used in gonorrhœa and syphilis for common drink.

BRITISH HERB TOBACCO, *Species sternutatoria*. Thyme, two oz. ; coltsfoot, three oz. ; betony and eyebright, of each four oz. ; marjoram and hyssop, ana, two oz. ; rosemary and lavender, ana, eight oz., mixed.

IMITATION TEA. The leaves which have been found in the possession of the manufacturers, are those of the sloe tree, ash tree, elder bush, and white thorn. They are described as having been boiled, in some cases, with logwood, or scalded, then rolled up and dried, the green bloom being given to them by Dutch pink, or verditer. The use of sheeps' dung, verdigris, or copperas, seems a mere slander.

RUSSIAN TEA. Composed of the leaves of *Saxifraga crassifolia*, *Pyrola rotundifolia* or winter green, *Clematis alba*, *Pyrola uniflora*, *Prunus padus* or bird cherry, *Spiræa coronata*, *Ulmus campestris* or common elm, *Polypodium fragrans*, and *Rosa canina*, or dog-rose.

BOWLES'S HERB TEA. Wood betony, wood sage, and ground pine, equal parts of each. Very useful in gout, headach, and nervous disorders.

MONGUL TEA, *Tea in tiles*, *Ziegel thee*. Made by the Mongul Tartars and Baritoes, from leaves which resemble those of *Cerasus avium*, made into flat cakes with the blood of animals ; the leaves of *Ulmus pumila* and *Prunus padus* are also used.

SEMILLA DEL GUACHARO. Various sorts of hard and dry fruits, found in the stomachs of the young guacharoes. A celebrated South American remedy against intermittent fevers.

GRAVELLE, *Gravellee Clavelli*. Lees of wine mixed with vine twigs, and the cake of grapes, being the refuse of the vineyards and vinegar-makers ; dried for sale to make a pure kind of alkali.

PICCALILLY, *Indian pickle*. White cabbages sliced, cauliflowers pulled to pieces and scalded, radishes topped and tailed, French beans, celery in three-inch lengths, shoots of elder peeled, clusters of elder flowers unopened, all salted for two or three days,

then mixed with apples and cucumbers sliced, and a large proportion of ginger, garlic, turmeric, long pepper, and mustard seed, as the pickle is expected to be very warm; the vinegar must also be the strongest that can be procured, and just sufficient to float the articles: any other vegetables may be used at pleasure.

II. ANIMALS.

ANIMAL substances are often preserved by *drying* in a stove, or oven, which should be heated as high as possible, provided the heat is not such as to scorch the external parts, nor operate any other change in the substance than the evaporation of the water.

The action of *frost* is also used in the northern countries to preserve animal substances, as rein-deer tongues and many kinds of fish: this requires no other care than to guard them against the attacks of living animals.

The *brine* of common salt is one of the most easy and effectual methods of preservation. To employ it in the most advantageous manner, a saturated solution of salt in water is first made: as 100 parts of the brine are composed of about 28 parts of dry salt and 72 of water, it will require rather more than three pounds and a quarter of salt to be added to each wine gallon of water to form it, or four pounds to each imperial gallon. The meat, or other substance, is to be put into this brine, and a board placed upon them, loaded with a lump of solid salt, or at least with the largest grained salt that can be procured, so as to keep the substances under the brine, and also to keep the brine at its full strength, as the juices of the meat or fish of course weaken the original brine. After the meat or other substance has remained in the brine for two or three days, it is taken out, and either dried by rubbing it with bran or pollard for present use, or packed in barrels with large grained salt for long keeping, or hung up in a smoking room. When the brine gets loaded with the juices of the meat or fish, it is to be boiled in an iron pot, carefully scummed, and then strained through a canvass or flannel bag, a sufficient quantity of water being added in the boiling to take up nearly all the salt that has settled at the bottom. Different sorts of meat or fish ought not to be put into the same brine, but by this boiling and scumming the same brine will last a long time. The addition of an ounce of saltpetre to each pound of salt that is used, will preserve the red colour of the meat, and the same quantity of brown sugar will improve its flavour.

Animals are also preserved by *packing in dry salt*, for which purpose salting-tubs with double bottoms, the upper having

several small holes bored through it, are preferable. A layer of large-grained salt is laid upon this, the pieces of meat or fish packed along with the same kind of salt, and covered at top with another layer of salt. In about a week, or rather sooner, the substances are taken out and repacked in small vessels with the same coarse-grained salt; some add a little spirit of salt in this repacking to improve the flavour. Cutting out the bones of meat that is to be salted in this manner, and splitting large fish, is of advantage. In some places the boned meat is also pressed by heavy stones laid upon a plank, or by a screw before it is put into the salt.

Preservation of animal substances by merely *rubbing in of salt* is practised when and where salt is dear. The meat is laid on a table or bank of brickwork which has a gentle slope, and well rubbed with salt, to which a little saltpetre and coarse sugar may be added with great advantage; a small quantity of salt or dry mixture is then strewed over the meat. As the moisture of the meat melts some of the salt, it runs off the table or bank. If only a single piece of meat is thus salted in a dish, a smaller dish should be placed, bottom upwards, in the larger dish, to allow the brine to drain away from the meat. This method is less efficacious than pickling in brine or packing in dry salt, and frequently fails: it also cannot be well applied to fish, on account of their tenderness not bearing the necessary rubbing. The brine that drains from the meat may be made boiling hot, scummed, boiled down nearly to dryness, and the salt thus obtained used again.

The preservation of animal substances in *strong vinegar* is seldom practised; but a mixture of common vinegar, small beer, and water, in equal quantities, is used to pickle some fish, as salmon, for present use, as it will not keep them more than a few days.

Olive oil is also used to preserve fish, as salmon and tunny, the jars being filled to the brim, well closed, and the joints secured with mortar or plaster of Paris to keep out the air, which would turn the oil rancid.

Small birds, as quails, and fish, as char, are also preserved by *potting* them, that is, by pouring clarified butter over them, so as to fill the vessel, which is then kept closely covered, and paper pasted over the joints. Meat and fish, previously dressed, are also chopped, and pounded to a paste along with spices, pressed into pots, and clarified butter poured over the paste to the thickness of a quarter of an inch, to keep it from the air.

For preserving meat and fish by *smoking* them, in perfection, proper rooms are necessary. These rooms are on the two uppermost floors in the house, as high from the ground floor as possible.

The fire-place is placed in the cellar, where the previous salting is performed, in order that the smoke may deposit its soot in the flues, of which there are usually two, placed side by side, and arrive cool in the lower smoking room, in which the pieces of meat or fish are hung as close as possible, yet so that they may not touch one another. From this lower room the smoke passes through one or two openings cut in the ceiling into the upper room, which is mostly used for smoking sausages or fish. The fuel used is very dry oak, as moist wood would be apt to produce mouldiness, and turn the meat rank. Meat or sausages about five or six inches thick require six weeks to be smoked properly, thinner and slenderer pieces a less time in proportion. The smoke penetrates quicker in cold weather than in warm; hence the manufacturers seldom smoke in summer. The skins of animals are also prepared in this manner instead of by tanning; the leather thus prepared is, when well made, semitransparent, like horn.

The *buccaning* of meat is a rude kind of smoking, practised by hunters in forests. Forked branches of wood are stuck in the ground, and by these means a grating of rods is formed between two and three feet high from the surface of the earth. The flesh of the animals that are killed is cut into thick slices, or merely scored very deep, placed on this grating, a fire lighted under it, and the meat rendered fit for keeping, partly by the drying, and partly by the smoking.

Another method of preserving animal substances used in hot countries is called *charqui*, or *jerking*. The lean of meat is cut into as thin slices as possible, and exposed to the full action of the sun to dry it, the slices being turned when necessary. The meat thus dried is pounded in a mortar into a uniform paste, which is pressed into jars for use. If the meat is prepared for travelling, it is beaten up with maize meal, and pressed into leather bags, so that it does not require to be eaten with bread, or any further dressing by fire.

Animal substances, particularly the skins, are preserved by *tanning* them; for this they are immersed in water along with several kinds of bark, mostly oak or larch, for several days, or even weeks. Other astringent substances, as terra Japonica, are also employed for this purpose, by which the time is shortened, but the substance is rendered hard and brittle.

Another method of preservation mostly applied to skins is by *tawing* them. For this they are soaked in water with fresh slaked lime, and left in it for six weeks, the water being changed twice, then rinsed, soaked afresh in water mixed with wheat bran, until they first float in the water, and when beaten down do not rise again; the bran is then scraped off; after this a paste is thus prepared,—for 100 sheep's skins 8lb. of alum and 3lb. of salt are

dissolved in warm water, and this is added to 20lb. of fine wheat flour and 96 yolks of eggs, so as to form a liquid paste. A ladle full of this paste is put into a trough of warm water along with twelve of the skins, where they remain for some time, and are then pulled and stretched. This is repeated twice, and they are then left for five or six days at the most, after which they are dried,—the quicker the better.

Dipping in pyroligneous acid is an effectual method of preservation. When the substance is intended for food, it must not be left in the acid for more than two or three minutes. If rough pyroligneous acid is used, it communicates the taste of smoked meats to the substance; and for this purpose it is sufficient merely to smear it over the substance with a feather or sponge.

The *solution of corrosive sublimate* in water is used to preserve objects of natural history, with a view of preventing their being destroyed by insects, but it renders them as hard as a board.

Alcohol diluted with water is more commonly used: this also hardens the finer parts, unless some liquor ammoniæ is added to the alcohol.

The several kinds of flesh, fish, and white of egg, contain twelve or even thirteen oz. of water in the lb.; the three or four oz. of solid matter is composed of about one oz. of gelatine, and the remainder is albumen, which is left undissolved when the solid matter (obtained either by drying with heat, or by oil of vitriol in a vacuum) is boiled in water.

MAMMALIA.

MAN, *Homo*; — *Mummy, Mumia.* Procured from Egypt, made by impregnating the subject with bitumen, or, according to Dr. Granville, with bees' wax; formerly used in bruises, epilepsy, asthma, phthisis, 3ss to ʒj at night in wine.

Hair. Prepared by baking in a crust of flour and water; that of different nations judged by their smell, the Scotch and Irish hair having the strongest scent; hair with a natural curl rare, not above 30lb. in a bale of 140lb.; fine long white hair is 2l. or more the oz.—Subcutaneous fat and excrements used.

MONKEY. An unknown species yields Borneo oriental bezoar.

NEAT CATTLE, *Kine, Bos taurus.* Flesh of the young animal, *veal, caro vitulina*, nutritive, easily digested. Flesh of the adult animal, *beef, caro bovina*, nutritive, strengthening.—*Pickled beef.* The flesh rubbed with salt, and packed with it.—*Hung beef.* Flesh salted and smoked.—*German sausages.* The muscular flesh chopped in small pieces, salted, packed in intestines, and smoked.—*Pickled tripe.* The stomach preserved in brine.—*Pickled tongues.* Packed in salt.—*Dried tongues.* Pickled tongues smoked.—

Rennet, calves' maws, coagulum. The stomachs of calves washed, and preserved either in brine or dry salt; used to curdle milk, two square inches from the bottom usually sufficient for a cheese of 60lb.—*Brains.* Boiled, used by the vermicelli-makers to grease the screws of their presses.—*Skulls, canards*;—inside of the horns, *cornillans*;—remains of the rib bones left by the button-mould makers, *dentelle des boutonnières, escafillottes*;—The tails, *ox tails.* All used to make glue and portable soup.—Shavings of calves' shin bones, *ossa vitulina.* Sold for hartshorn shavings.—*Brochettes,* the thin parings cut by the currier from skins;—*Buenos Ayres,* the trimmings of foreign hides, and the raw-hide thongs used to tie the hides together;—*Patins,* the tendons of the legs attached to the small hind hoofs;—*Nerf de bœuf,* the genitals of the male;—The ears and skins of calves' heads are all used to make glue and size.—*Cow heels,* the feet from which the hoofs have been separated, used to make hatmaker's glue.—*Outside of the horns*;—*Hoofs,* used for making steel and Prussian blue, will not make glue or soup.—*Teeth,* distilled for subcarbonate of ammonia.—*Hides,* made into leather, either by tawing, tanning, or smoking, —*Refuse bones* of butcheries and kitchens, boiled for bone grease, and made into bone black.—Horns from Brazil, 2l. to 2l. 5s. by the 123.—Hides, foreign, 5d. to 8d. the lb.

Goldbeater's skin, prepared from the peritoneal membrane of the cæcum, which, as soon as it is detached, is pulled out to the extent of two feet or upwards, then dried. The dried membrane, which has the appearance of a piece of packthread, is then soaked in a very weak solution of potash, and spread out flat on a frame; another membrane is then taken and applied to the other, so that the two surfaces which adhered to the muscular membrane of the intestine may adhere together; they unite perfectly, and soon dry. The skins are then glued on a hollow frame, washed with alum water, dried, washed with a solution of isinglass in white wine, to which spices, such as cloves, nutmegs, ginger, or camphire, have been added, and varnished with white of egg. Used to separate the leaves of gold while being beat thinner, and as a defensive for cuts.—*Allantoides of calves,* prepared in the same manner; used to make air balloons for lectures.—*Blown up intestines,* prepared by cutting off the fat and part of the peritoneal membrane, turning them inside out, macerating in water for a few days, until about one-third of the mucous membrane can be removed in strips by the nail, blowing them up, drying them, pressing out the air, exposing them to the fumes of burning brimstone, and finally packing them in boxes or bags, along with a small quantity of pepper, camphire, and other aromatics. Lately the water in which the intestines are macerated has two pails of water, to each of which twelve ounces of Javelle bleaching liquid

at 12 or 13 deg. Baume, are added for every 50 sets of intestines: this addition not only corrects the fetid scent immediately, but also allows the mucous membrane to be removed after a single night's maceration: used for packing German sausages and black puddings.—*Ox bladders*, prepared nearly in the same way: used for packages, and for covering bottles.—*Druggists' gut skins*, the blind gut prepared in the same coarse manner: used for wrapping up extracts, pill masses, as also the fetid gums, 3s. the gross.—*Gelatine brut*, from the skulls of oxen, the spongy insides of ox horns and the ribs, by washing them, soaking them in an equal weight of weak muriatic acid, at 6 deg. Baume in the winter, and 5 or only 4 in summer, for about ten days; pouring off the acid, soaking them afresh in acid at only 1 deg. Baume for a day and night, steeping them in water for some hours, renewing it five or six times until all the acid is washed out, and finally steeping them in a very weak solution of subcarbonate of soda. 100lbs. of bones yield about 25 or 27lbs. of gelatine brut: used for making carpenters' glue, as the fat in the bones gives it a bad taste, and renders it unfit for soup.—Abdominal fat, marrow of the thigh bone, milk, gall, cystic calculus, urine, and dung, collected for use.

BUFFALO, *Bos bubalus*. Flesh coarse, nutritive, but preferred to that of neat cattle in summer, as they preserve themselves from the teasing of insects by remaining most of the day under water, leaving only their nostrils above it. Skin tanned, *buff leather*; epidermis of the skin removed in preparing buff leather, *effleurures*, used to make glue; hoofs sold as elk hoofs, but want the sweet smell when scraped.—Horns from the East Indies.

SHEEP, *Ovis aries*. Flesh of the young animal, *lamb*, nutritive, easily digestible;—flesh of the adult animal, *mutton*, nutritive, strong tasted;—*mutton hams*, legs salted and smoked, or dipped in pyroligneous acid for two or three minutes, and dried;—skins tawed, *white leather*, tanned, *basil skins*, also made into parchment;—abdominal fat, *raw mutton suet*, *sebum ovinum*, *sebum* P. L. 1809, *adeps ovis arietis*, eaten raw as a pectoral medicine;—*skulls*, blade bones, *omoplates*, used to make portable soup and bone glue;—stomachs, *ewe rennet*, used to coagulate milk:—the parings of parchment;—*sheep's trotters*; the trimmings of sheep-skins cut off by the tanners, used to make glue.—Horns, rubbed upon heated iron or steel tools to varnish them.—*German sausage skins*, prepared from the intestines, by soaking them until the peritoneal membrane can be detached by a knife; that of the half next the small end of the intestine comes off in strips of three or four inches long, the remainder follows in the whole remaining length of the intestine, provided the detachment is begun at the

small end; these long strips are called *filandre*, and used as thread to sew the guts: the mucous membrane is then removed, and the thick end of the intestine cut off for this use in the length of about eight feet. If these skins are to be sent to a distance, they are salted for two or three days, and then repacked with fresh salt.—*Condoms, Armour, Baudruches, Redingotes Anglaises.* The intestina cæca of sheep soaked for some hours in water, turned inside out, macerated again in weak alkaline ley changed every twelve hours, scraped carefully to abstract the mucous membrane, leaving the peritoneal and muscular coats; then exposed to the vapour of burning brimstone, and afterwards washed with soap and water; they are then blown up, dried, cut to the length of seven or eight inches, and bordered at the open end with a riband: used to prevent venereal infection, or pregnancy.—*Baudruches fines.* The blind guts are soaked in weak ley, then turned inside out, and dressed as before: soaked again in ley, brimstoned, drawn smooth upon oiled moulds of a proper size, observing that the external coat of the gut is next the mould, and dried.—*B. superfines.* The baudruches fines are washed in two soapy waters, after soaking twenty-four hours in them, and very carefully dressed with the knife; then soaked in hard water for three days, the water being often changed; dried with a clean cloth, scented with essences, and being stretched on a glass mould, rubbed with a glass to polish them.—*B. superfines doubles.* The baudruche in its moist state being on the mould, another is drawn over it also moist, when the two insides adhere together.—*Canepin.* The flower, or epidermis, torn from the skins, after soaking in water, to make chamois leather; larger pieces used to make gloves, *French chicken skin gloves*, packed and sold in a gilt walnut shell, also fans and some other toys; middling pieces used to wipe fine cutlery; small to rub out pencil lines, which it takes out cleaner than Indian rubber.

Coarse catgut. From the intestines, by removing the mucous and peritoneal membranes, then soaking them in water, to each gallon of which is added an oz. of potash and another of pearlash, then scraping them with a copper plate having a semicircular notch, twisting them according to their uses, sometimes colouring them, as for whips, with ink, red ink, or sap green, and exposing them to the fumes of burning brimstone for two or three times: used for tennis rackets, whips, hatmakers' bows, and clock-work.—*Fine catgut.* The mucous and peritoneal membranes are removed with great care, they are then soaked for a day or two in water to which potash is added, then removed to water impregnated with burnt lees of wine, which is made stronger by degrees, scraping them carefully to separate the fat. As soon as the intestines begin to float, they are immediately taken out, twisted, brimstoned, again twisted, and dried; when sufficiently dried, the catgut is rubbed

over with olive oil, and kept as long as convenient, as it improves by age; used for musical instruments; the finest are still made only at Naples.

Gelatine brut fin. From the skulls, blade bones, and shank bones, the ends being cut off, and the bones cut down the middle to remove the fat, steeping them in muriatic acid, as the gelatine brut of ox bones, then in boiling water for a few minutes, wiping them carefully, drying them, shaking them together in a bag to remove the internal pellicle, cutting them across or into dice to disguise them, and finally dipping them in a hot solution of gelatine to varnish them. Used to make soup, keeps better than the cakes of portable soup; and when less carefully prepared, used also to make carpenters' glue for fine work. The muriatic acid obtained by distilling salt with oil of vitriol in iron cylinders is less fit for this purpose than that of the manufacturers of subcarbonate of soda, as being apt to give it a bad taste. Their milk and subcutaneous fat are also used, and their dung by the dyers.

CAMEL, *Camelus Bactrianus*;—*Dromedary*, *C. dromedarius*. Stomach, *camel rennet*, used to curdle milk: their milk, cystic calculus, and dung are used.

GOAT, *Capra hircus*. Flesh of the young animal, *kid*, nutritive; stomach, *East Indian rennet*, *goat rennet*, used to curdle milk: skins tanned, *Morocco leather*, yields milk: hair from Italy.—*C. ibex*. The blood is used.—*Gazelle*, *C. gazella*;—*C. aegragus*.

ANTELOPE ORYX. Yield Persian oriental bezoar.

MUSK DEER, *Moschus moschiferus*. Follicle near the navel, *musk in the pod*, *moschus in vesica*;—*Tonquin pods*, *China pods*, *M. Tunquinensis*. *M. Chinensis*, thin, round, size of a pigeon's egg, covered with short red hair, lined with a thin brown skin, imported in bags of 20 to 100 oz.—*Thibet pods*, *musc kebardin*, *m. Thibetinus*, smaller, of a silvery white colour, imported from Bengal and Russia.—*Musk bags*, *exuvie moschi*. Those from which the musk has been extracted; used to scent liquids.

REIN DEER, *Cervus tarandus*. Tongues preserved by freezing, imported from Norway as a delicacy.

BUCK, *Doe*, *Fallow deer*, *Cervus dama*. Flesh, *venison*, highly esteemed; horns, *English horns*, round, white; shavings, *rasura cornu cervi*, used to make jelly and burnt hartshorn; abdominal fat used, also the hair, *mohair*.

STAG, *Hart*, *Hind*, *Red deer*, *Cervus elaphus*. Flesh, *venison*, less esteemed; horns, flat, dark brown, *foreign horns*, *cornua*, P. L. used by the cutlers for handles of knives, ordered by the college to be used in medicine for the former.

ELK, *Cervus alca*. Hoof, *ungula alca*, smells very sweet when scraped, made into necklaces in France for teething children; shavings, ʒj in powder, in epileptic fits.

HORSE, *Equus caballus*. Flesh of the young animal nutritive, strong smelling, eaten in some countries, smoked for keeping by the Tartars; tongues salted and dried, sold for neat's tongues; bones boiled for bone grease, and distilled for bone black; skins tawed for thongs of whips, also tanned and smoked, *shagreen*, very tough, particularly the croup.

Catgut. From the intestines, which are soaked in water, with a pailful of weakened Javelle bleaching liquid for each eight or ten sets; the mucous membrane is then separated, the intestine cut into four strips by forcing a ball with four knives placed crosswise along them, these strips twisted, and when dry, any slight inequalities removed by fish skin; used for turning-lathes and other machinery. Stomach of the foal, *horse rennet*, used to curdle mares' milk; hair of the tail twisted round wooden cylinders and baked, used to make elastic cushions.

Ass, *Asinus, Equus asinus*. Flesh eaten, and esteemed a delicacy; skins made into shagreen; intestines made into coarse catgut; yield milk.—**Mule, *E. mulus*.** Skin made into shagreen; intestines made into coarse catgut.

BROWN BEAR, *Ursus Europæus*. Abdominal fat used.—**White bear, *U. maritimus*.** Gall used.

RABBIT, *Lepus cuniculus*. Stomach, *rabbit rennet*, used to curdle milk.—**Hare, *L. timidus*.** Gall used.

CIVET CAT, *Viverra zibetha*. Dried glandular follicle from beneath the tail, *civet perfume, poollughoo shuttum*, sold in the Indian bazars, contains civet.—***V. Indica***;—**Pole cat, *Mustela putorius*.** Yield civet.

BEAVER, *Castor fiber*. Large follicles near the genitals, *castor pods, castoreum in vesicis*, contains castor.—**Russian castor, *Castoreum Rossicum, C. Siberinum*,** in large pods, contents friable, not quite dry, liver colour, strong peculiar smell, taste acrid, bitter. The pods are prepared by boiling them for ten minutes in a ley of wood ashes, then drying and smoking them for an hour over a fire upon which some birch bark is laid; ordered by the London college to be alone used in medicine, but it is scarcely to be procured at any price.—**New England castor, *C. Novæ Angliæ, C. Anglicanum*.** Pods smaller, smell very different from the Russian: imported from North America.

ELEPHANT, *Elephas Capensis*. Tusks, *ivory, ebur, dens elephantis*, shavings, *rasuræ eboris*; used to make jolly and ivory black; from Africa.

HOG, *Sus scrofa*. Flesh, *pork, caro suilla*, extremely nutritive and easily digested; of the adult animal, *bacon hog*, salted in brine or with dry salt, and then either kept moist, *pickled pork*, or merely dried, *white bacon*, or dried and smoked, *bacon*, that of the hind legs, *ham*, equally nutritive, but less easily digested; skin, *rind*, eaten with the flesh if not smoked, also tanned for saddle seats; bladders prepared as ox bladders: the abdominal fat, *pig's flare, adeps suillus, adeps P. L.* is used, as also the blood for food, and it yields a bezoar.

SEA HORSE, *Bottle-nose seal, Sea lion, Phoca leonina*. Flesh, *beef*, nutritive; yields blubber, and about two hhd. of blood.

URSINE SEAL, *Sea bear, Phoca ursina*. Flesh of the young animal has the taste of lamb and sucking pig; that of the adult is coarse, black, and unpalatable: fat about four inches thick, unpalatable.

LEONINE SEAL, *Sea lion, Phoca jubata*. Flesh of the young nutritive; skin used as leather, yields fat.

SEAL, *Sea calf, Sea dog, Phoca vitulina*. Flesh delicate, hide and fur used; yield oil.

ARCTIC WALRUS, *Morse, Sea cow, Trichecus rosmarus*. Blubber four inches thick, white, firm; teeth a foot long, weigh 4lb. to 10lb., not equally sound throughout, some parts superior to ivory, others inferior; skin forms excellent leather.

INDIAN WALRUS, *Sea cow, Dugong, Trichecus dugong*. Teeth, *Lapis manati*, very white, used as ivory.

WHALE-TAILED MANATI, *Manatus borealis*. Flesh of the young animal like veal, of the adult like coarse beef, and requires long boiling; blubber has the taste of oil of almonds, grows yellow in the sun, substituted for butter, keeps sweet all the summer; skin used for shoes, and covering boats.

RIVER HORSE, *Hippopotamus amphibius*. Subcutaneous fat, weighs from 1000lb. to 2000lb., particularly delicious; tongues preserved by drying, delicious; teeth, *morse teeth*, harder and whiter than ivory, not so apt to turn yellow, used to make artificial teeth.

BLACK WHALE, *Greenland whale, Balæna mysticætus*. Teeth, *whalebone, whale fins, laminae balænarum*, elastic, used for flexible probes: yields subcutaneous fat, *blubber*.—*Iceland whale, B. nord-caper*;—*Fin-fish, Balænoptera gibbar*;—*Sea sword, Delphinus gladiator*;—*Porpoise, D. phocæna*. Yield subcutaneous fat, *blubber*.

GREAT SPERMACETI WHALE, *Physeter macrocephalus*;—*Blunt-headed cacholot, P. trumpo*;—*Small-eyed cacholot, P. microps*. Yield subcutaneous fat, *blubber*, and *head matter*, from whence spermaceti is extracted.

NARWHAL, Unicorn fish, *Monodon vulgaris*. Tusk, unicorn's horn, *cornu unicornu, C. monoceratis*. A very fine ivory; yields blubber.

FINKS. The membranous remains of blubber, from whence fish oil has been drained; made into animal charcoal.

2. AVES.

Flesh and eggs nutritive.

***COMMON FOWL, *Phasianus gallus, Gallus domesticus, G. gallinaceus*.** Flesh restorative, delicate; eggs, *ova gallinacea*, kept in a cellar, in a pan with water and slaked lime, or in brine, or covered with a coat of oil or butter.

***TURKEY, *Meleagris gallopavo*.** Rough inner skin of the gizzard salted and dried, *turkey rennet, gallino*, used to curdle milk for cheese, makes a finer curd than calves' rennet.

QUAIL, *Tetrao coturnix*. Imported from Turkey preserved in oil, and from Cagliari potted with clarified butter.

CAROLINA PIGEONS, *Columba migratoria*. Yield an oil.

***RAVEN, *Corvus corax*.** Pen feathers of the wings, *crow quills*.

OSTRICH, *Struthio camelus*. Feathers preserved by dipping in a mixture of one gallon of lime water with five of clear spring water, and drying or stoving them; from Africa.

***GOOSE, *Anas anser, Anser domesticus*.** Flesh nutritive, pen feathers of the wings, *quills*, prepared with lime water, hardened by fire, barrels coloured with dilute nitric acid; from Germany. Its fat is used.

***SOLAND GOOSE, *Anas sula, Sula alba*.** Salted and dried for food, *salted geese*, very fishy to the taste.

4. REPTILIA.

GREEN TURTLE, *Chelonia mydas*. Flesh highly nutritive, and restorative; has succeeded to the place of viper broth.

HAWKS-BILL TURTLE. Flesh produces fever and dysentery; eggs esteemed as food; scales of the shell, *tortoise shell, turtle shell*, prepared by softening, in warm water, and pressing between hot iron plates, used in cabinet-work; from the East Indies, 1l. 16s. to 2l. the lb.

LOGGERHEAD TURTLE, *Mediterranean turtle*. Flesh coarse, rank, but eaten; scales very thin, but used in cabinet-work; fat melted into oil.

MUD TORTOISE, *Testudo lutaria, Testudo, C. P.* Flesh restorative; the best summer meat in warm countries, the cattle being this from the irritation of insects, and poultry rank from the quantity of worms they pick up.—*Fierce tortoise, T. ferox*.

Flesh not inferior to that of the green turtle.—*Land tortoise, T. Græca*;—*Guiana dragon, Dracæna Guianensis*. Flesh and eggs used as food.

GUANA, *Iguana delicatissima*. Flesh delicious, antivenereal, preserved by salting.

SKINK, *Scincus officinalis*. Flesh dried, salted, and powdered, alexiterial.

HYLA TINCTORIA. Blood used to rub on the skin of paroquets to cause the growth of various coloured feathers.

GIBBOUS FROG, *Green frog, Rana esculenta*. Flesh of the hind thighs used as restorative food.

SURINAM FROG, *Rana paradoxa*. Tadpole, *frog fish, jackie*, flesh used as food.

TOAD, *Bufo vulgaris*. Flesh of the hind thighs sold for that of the green frog.

5. SERPENTES.

Bite of many of these animals mortal; the best remedy is a bottle of Madeira wine drunk at two doses, with only a few minutes' interval, or an equally large dose of any strong spirituous or fermented liquor; "or camphor and ammonia with Cayenne pepper. Also ligatures should be applied above the bites, or cupping glasses over them. Repeated suction with the mouth preferable to both." Inoculation with the juice of vejuco, *Prenanthes serpentaria*, renders persons insensible to this poison.

VIPER, *Vipera, Coluber berus*. Flesh along with the heart, liver, and blood, in all about four oz. with three quarters of a pint of water, made into a restorative decoction; has given way in England to turtle soup; dried vipers, *viperæ siccæ*, headed, gutted, skinned, abdominal fat removed for separate use, and dried, made into lozenges.

6. PISCES.

Some of these are poisonous at all times, others only occasionally; but the greater number are eaten with safety: the nature of this *fish poison* is unknown.

SEA LAMPREY, *Lampar eel, Petromyzon marinus*;—*Lesser lamprey, Nine-eyed eel, P. fluviatilis*;—*Pride, Lampern, P. branchialis*. Flesh glutinous, preserved, *potted lampreys*, by peppering so highly that it often produces an access of fever, as Henry II. found, and paid for his luxury with his life.

SKATE, *Flare, Blue skate, Grey skate, Raia batis*;—*White skate, Friar skate, May skate, R. oxyrinchus*;—*Thornback, R. clavata*. Flesh nutritive, salted, and dried for exportation.

SHAGREEN BAY, *Raia tuberculata*. Skin dried, *shark's skin*, *shagreen*, knobby, used to cover boxes.

ROUSETTE, *Raia sephen*. Skin dressed, *galuchat*, *fish skin*, transparent, used to cover boxes, cemented on green stained paper, the tubercles filed down, polished, and the skin stained with verdigris, spots, circular, large, very beautiful.

ROUGH HOUND, *Squalus catulus (the male), *Spotted dog fish*, *S. canicula* (the female), *Chien de mer*. Skin dressed, *shark skin*, rough, used for polishing wood and ivory.—*Sugre, Aiguillat, Squalus spinax*;—*Porc, S.*;—*Melandre, S. galens*. Skins dried, and used either as fish skin for covering, or for polishing wood.

***WHITE SHARK, *Squalus carcharias*.** Liver pressed for the oil.

***STURGEON, *Acipenser sturio*.** Flesh pickled in brine, or sliced and frozen, *runckel*; the back bone soft, fat, preserved by smoking, *chinolia, spinachia*; sounds made into isinglass; roe of the female, which sometimes weighs 200 lbs., made into caviare; skin dressed for leather, those of the young fish transparent, used for windows; fat collected.

BELUGA, *Acipenser huso*. Sounds make the greatest part of the isinglass that is sold.

TETRAODON OCELATUS;—*T. sceleratus*;—*T. lineatus*. Flesh poisonous.

DIODON ATINGA. Sounds made into isinglass; gall poisonous.

EEL, *Muraena anguilla*.** Skins dried, used as leather; liver, *hepar anguilla*, used to facilitate labour, ʒj in a glass of wine; fat collected by roasting them.—Conger, *M. conger*.** Flesh, after the fat has dropped from it, salted; fat collected for use.

***COD, *Gadus morhua*.** Three fins on the back; flesh split and dried, *stock fish*, salted, *salt fish*; sounds pickled in brine, also made into isinglass; liver boiled for its oil; spawn made into caviare.

HADDOCK, *Gadus aeglefinus*.** Flesh split and dried; small bones in the head, *tooth shells*; sold at the china shops, used as a stimulant to warts, with vinegar.—Whiting, *G. merlangus*.** Flesh split, and dried.

***LING, *Gadus molva*.** Two fins on the back; flesh split and dried, *stock fish*, salted, *salt fish*.

***TORSK, *Gadus brosme*.** One fin on the back; flesh split and dried, *stock fish*, salted, *salt fish*.

***MACKAREL, *Scomber scombrus*.** Flesh preserved whole in brine, *pickled mackarel*; also cut in slices, and preserved with vinegar and spices, *caveach, coratch*, used as a sauce.

~~SAUCES, *Cottus scorpius*. Pressed for oil.~~
TUNNY, *Scomber thynnus*. Preserved whole in oil; imported from Italy.

***STICKLEBACK, *Gasterosteus aculeatus*.** This extremely small fish is in some places so plentiful as to be pressed for its oil, the remainder used as manure.

LUNULATED GILT HEAD, *Sparus aurata*. Flesh salted.—*Sparus pagurus*. Flesh poisonous, used for suicide.—*Perca* . . . Skins prepared as isinglass.

***SALMON, *Salmo salar*.** Flesh preserved in half lengths, pickled salmon, with vinegar, small beer, and water, three fish in a kit; or split, salted, and smoked, kipper salmon; or whole in oil.

CHAR, *Salmo alpinus*. Flesh preserved by potting, potted char.

***MULLET, *Mugil cephalus*.** Spawn salted, dried, and dipped in melted wax, botargo, used as sauce.

***HERRING, *Clupea harengus*.** Belly fin six rayed; flesh pickled in brine, and repacked with salt, white herrings, pickled herrings.—*Scotch herrings, Dutch herrings*, caught off the Scottish coast after the 24th June, large, fat, full bellied, rich flavoured, but do not keep in hot climates.—*Yarmouth pickled herrings*. Caught off Yarmouth in September and October, lank, mostly without roe, keep well, exported to the West Indies for the negroes.—*Red herrings*. The Scotch herrings salted and smoked with dry oak-wood smoke; also pressed for oil.

ANCHOVIES, *Clupea encrasicolus*. Flesh pickled with vinegar; used as sauce, the bones dissolve during the boiling; imported from Italy and France. *Gorgona anchovies*.

***SPRATS, *Clupea sprattus*.** Belly fin nine rayed; flesh dry; whole fish, not gutted, salted in brine; headed, gutted and pickled in vinegar, used for anchovies.

***PILCHARD, *Clupanodon pilchardus*.** No teeth in the jaws; flesh preserved with salt, also pressed for oil: young fry used for anchovies.

***BARBEL, *Cyprinus barbus*.** Spawn sometimes violently cathartic.—**Dace, C. leuciscus*;—**Roach, C. rutilus*;—*Bleak, Bley, C. alburnus*. Scales used to make oriental essence.

ISINGLASS, *Fish glue, Ichthyocolla*. Principally prepared from the sounds or air bladders of the beluga, by scraping, steeping in lime water, to remove the grease, washing, drying, twisting into staples, bending into a book, or rolling into a ball; used to fine wine and beer, and to make jelly for food; gr. vj grow solid with half a pint of water; imported from Russia, short staples (S. S.).

CAVIARE. The spawn of sturgeon and some other fishes,

broken by the hand, mixed with salt, and dried; used as sauce; imported from Russia.—*Red caviare*. The spawn of various fish salted and smoked.

7. MOLLUSCA.

CUTTLE FISH, *Sepia*, *S. officinalis*. Bone, *os sepia*, astringent, used by calf farmers, also in tooth powders; for polishing metals, and to make moulds for small gold and silver work, as it is tender, and takes a good impression by being pressed together with the pattern placed between them.

SLEEVE FISH, *Hose fish*, *Anchor fish*, *Calamary*, *Poor cuttle*, *Sepia loligo*, *Loligo vulgaris*. Flesh washed, after the ink is let out, is white, and, being dressed, has the taste of veal.

BECHE DE MER, *Doris* Collected on the west coast of New Holland; dried and used for making a rich soup.

***VINEYARD SNAIL**, *Escargot*, *Helix pomatia*. Flesh used as a restorative food.

***TURBO PULLUS**, *Phasianella pullus*. The shelly operculum, *Guernsey eye-stone*, put into the inner corner of the eye, works its way out at the outward corner, and brings out any strange substance with it.

MUREX BRANDARIS;—*Purpura lapillus*;—*Scalaria clathrus*;—*Planorbis corneus*. The yellowish juice reddens in the sun, and dyes woollen cloth scarlet.

***EAR**, *Ormier*, *Haliotis tuberculata*. Flesh pickled in vinegar, and very highly spiced, imported as food from Guernsey.

OYSTER, *Ostrea edulis*. Flesh eaten raw, or dressed, also pickled in vinegar and brine; shells, exposed to the air for months to bleach, *testæ ostreorum*, *testæ*, P. L. used as an absorbent, also burned for lime, *calx e testis*.

***SCALLOP**, *Pecten maximus*. Flesh eaten dressed, also pickled in vinegar.

PEARL OYSTER, *Avicula margaritifera*;—*A. hirundo*. Shells, *mother of pearl*, *mater perlarum*, absorbent, also used as ornament; from the East Indies; blue edged; finest white edged, dearer;—concretions found between the membranes of the cloak, *pearls*, *uniones*, *margaritæ*, used for ornaments, very high priced if large.

PINNA NOBILIS. Thread by which it adheres to the sand, *byssus*, used as silk; also produces pearls of considerable size, but tinged with brown.

***MUSCLE**, *Mytilus edulis*. Flesh eaten raw, or dressed; frequently poisonous.

***PEARL MUSCLE**, *Mya margaritifera*, *Unio margaritifera*. Pro-

duces pearls, *Scotch pearls*, mostly irregular in shape, useless for ornaments; ground and washed over, *margaritæ preparatæ*.

***COCKLE**, *Cardium edule*. Flesh eaten raw, or dressed, also pickled for sauce.

***MYA PICTORUM**. Shells, *colour shells*, used to spread colours upon.

8. VERMES.

***LEECH**, *Grey leech*, *Hirudo*, *H. officinalis*, *H. sanguisuga*. Back brown, with six yellow lines and intermediate black lines; foot grey, with black spots; mouth three-cornered, anus round: bite used as a mode of bleeding, each leech sucks not quite 3j of blood, but much runs afterwards from the wounds: castor oil is a good application to leech bites when they are painful, or go into sores.

GREEN LEECH, *Foreign leech*, *Hirudo provincialis*. Foot green, uniformly coloured; used for bleeding.

***BASTARD LEECH**, *Hirudo carnivora*. Foot becomes yellow in spirit of wine.

***BLACK LEECH**, *Horse leech*, *Hirudo hæmopis sanguisuga*. Teeth round, cannot penetrate the human skin.

9. CRUSTACEA.

***CRAW FISH**, *Cancer astacus*, *Astacus fluviatilis*. Concretions in the stomach when about to change their shell, *crabs' eyes*, *oculi cancrorum*, *concrementa cancrorum*, C. P. absorbent.

***LARGE SEA CRAB**, *Cancer pagurus*. Black tips of the claws, *crabs' claws*, *chela cancrorum*, absorbent.

HOG LICE, *Wood lice*, *Millepedes*, *Aselli*, *Oniscus asellus*. Alive no. 12, or dried and powdered, ʒj to ʒj, diuretic, used in jaundice; a large variety imported from Russia.

10. INSECTA.

Used internally are mostly diuretic, and in excess produce strangury, or bloody urine; externally vesicatory.

SPANISH FLIES, *Blistering flies*, *Cantharides*, *Meloe vesicatorius*, *Lytta*, *Cantharis*. Used to raise blisters, and internally as stimulant and diuretic, gr. j to iv; imported from South America.

RIBAND CANTHARIDES, *Telini flies*, *Meloe cichorii*, *Milabris cichorii*. Used by the ancients, and now in China and Upper India.

POTATOE FLIES, *Cantharides vittatæ*, P. U. S., *Lytta vittata*. Used in the United States.

MELON TRIANTHEMÆ. Used in the East Indian hospitals.

GREEN CANTHARIDES. Carried from India to Egypt.

***OIL BEETLE, *Meloe proscarabæus*;**—*M. majalis*, *M. variegatus*. Used as vesicatories, and also in hydrophobia.

INDRABOVUM, *Mutella occidentalis*. Used in snake bites, no. 5, with 12 scruples of the root of *Bryonia epigea*, dose gr. xij.

***LADY BIRD, *Lady cow, Coccionella septempunctata*.** Bruised on an aching tooth, as an odontalgic.—*Coccionella bipunctata*;—*Curculio anti-odontalgicus*;—*Carabus ferrugineus*;—*Chrysomela populi*;—*C. sanguinolenta*, and many other eleuterata are used for the same purpose.

BUG, *Cimex lectularius*. Used as an emmenagogue.

COCHINEAL, *Grana fina, Coccionella, Coccus, C. cacti, Cocci*. Used as a cordial, gr. viij to ℥j, but chiefly used as a red colouring drug for medicines, pickles, and in dyeing; 1,500 cwt. are annually consumed in the British islands; feeds on the *Cactus cochinillifer*, and perhaps *C. tuna*; imported in bags of 2 cwt. each, from South America: kermes grains and scarlet grains are mixed with it to reduce its price.

GRANA SYLVESTRIA COCHINEAL, *Granilla*. Smaller than the *grana fina*, feeds voraciously on the *Cactus ficus Indica*, which it has nearly extirpated in India since it was first introduced from the Brazils in 1795, by mistake; will not touch *C. cochinillifer*, nor *C. tuna*; colouring power inferior.

KERMES BERRIES, *Kermes, Vermeille, Coccus infectorius, C. baphicus, C. ilicis, C. quercus coccifera*. Dried, alexiterial, colour syrups red.

***SCARLET GRAINS, *Coccus Polonicus*.** Found on the roots of strawberries, rye, silver weed, and potentilla annua; used as a red dye.

LAC INSECT, *Coccus lacca*. Produces stick lac.

CHERMES MANNIFERA. Exudes manna.

***PLANT LICE, *Aphides*.** Exude honey dew.

***BEEES, *Apes, Apis mellifica*.** Dried ℥j, diuretic; produces honey, bees' wax, and bee bread.

***SILK WORM, *Bombyx, B. mori*.** Yield silk; broken in half when ready to spin, stretched out as far as possible, and dried, *silk worm gut*, used by anglers for their lines.

II. ZOOPHYTA.

RED CORAL, *Corallium rubrum, Isis nobilis*.

***WHITE CORAL, *Corallium album, Madrepora oculata*.** Antacid.

BLACK CORAL, *Corallium nigrum*, *Gorgonium antipathes*. Used in epilepsy.

UNKNOWN ANIMAL SUBSTANCES.

TIMPOST. Similar to castor, used in the Celebes.

INDIAN GRASS, *Sea grass*, *Ladang*, *Laut*. Used by anglers for the end of their lines next the hook; said to partake of the nature of a worm and a coralline. When alive, soft, and shrinks into the sand on the least touch; when dry, hard, straight, brittle. From Sumatra, kept oiled and in oiled gut skins to preserve its toughness.

III. COMPOUND COMBUSTIBLES.

NOT OF AN OILY NATURE.

OF VEGETABLE ORIGIN.

SUGARS.

MANNA IN TEARS, *Manna in lacrymis*. Flows spontaneously from the manna ash trees, and dries upon the bark, in the months of June and July. Manna is mostly obtained from the *Fraxinus rotundifolia*, but is yielded, though in less quantity, by the *F. ornus*, *F. excelsior*, and *F. parvifolia*. It is also yielded by the plum, oak, and willow.—*Flake manna*, *M. canulata*. Hangs in stalactites from straw, &c., bound round the tree in June and July. Manna is laxative, in a dose of ʒij to ʒss for children, or ʒjss for adults, in milk or any other liquid; from Sicily.—*Common manna*, *M. pinguis*, *M. in sortis*. Flows from incisions made after the 1st of August; Sicily.—*Briançon manna*, *M. laricis*. Found on the leaves of the larch in Dauphiny; laxative, but weaker than that of the ash; is probably a honey dew.—*Arabian manna*, *Manna of Moses*. Exuded in June from a species of tamarisk, growing in the deserts; only to be collected at early dawn, as the heat of the day melts it, and it runs into the sand; white, solid, if kept in a cool place, but melts even by the heat of the hand; sweet, aromatic: very scarce, only to be found in rainy years.—*Persian manna*, *Wadi ennad*, *Terreniabin*. Exuded from the *Hedysarum alhagi*; used as a purgative.—*Sarcocolla*. Origin unknown: carried from Ethiopia to India, and hence to Europe; used as a slight astringent.

WHITE SUGAR, *Cane sugar, Refined sugar, Sal Indus, Saccharum album, S. purissimum, S. purificatum.* The essential salt of the sugar-cane, prepared by clarifying the juice with eggs or blood, getting rid of the superfluous acid by the addition of lime-water, and evaporating it till the sugar crystallises on cooling. The uncrystallisable portion (treacle) is then drained from the granular mass, and that which remains in the first instance got rid of by passing small portions of water, or, according to a late improvement, of saturated syrup, through the mass; 112 lbs. of raw sugar yield, on refining, 56 of refined lump, 22 of bastards, 29 of melasses, and 5 of dregs; used for making very light-coloured wine, and the best syrups: reduced in France by sugar of milk, that sold at Marseilles contains from 1 to 25 lb. of sugar of milk in each cwt.; sugar is nutritive, laxative, but griping; externally applied to ulcers, it is escharotic.

BROWN SUGAR, *Raw sugar, Moist sugar, Mel cannae, Saccharum rubrum, S. non purificatum, Saccharum, P. L. since 1809.* Cane sugar, from which the treacle has not been thoroughly separated; used for making wines, vinegar, and coarse syrups.

CHINESE SUGAR. From *Saccharum Sinense*, richer than that of the East Indian cane.

BROWN SUGAR CANDY, *Saccharum candum rubrum.* From Germany.—*White sugar candy, Saccharum candum album.* Sugar crystallised by the saturated syrup being left in a very warm place, from 90 to 100 deg. Fahr., and the shooting promoted by placing sticks, or a net of threads, at small distances from each other in the liquor; it is also deposited from compound syrups, and does not seem to retain any of the foreign substances with which they were loaded: it may, however, be coloured red by means of cochineal. Being longer in dissolving than sugar, it is used in coughs to keep the throat moist; and is also blown into the eye, as a very mild escharotic in films or dimness of that organ.

TREACLE, *Melasses, Mel ustum, Theriaca communis.* The black uncrystallisable portion of the juice of the sugar, used as a cheap sweet, also for making beer, rum, and the very dark syrups, as those of white poppies, and of buckthorn berries. Its taste may be amended by boiling with bone black and water. It preserves vegetable powders better than sugar; English.

PARSNEP SUGAR;—*Skirret sugar;*—*Carrot sugar;*—*Beet sugar.* Made from the roots by decoction in water, expression, and evaporation, or by simple expression of the juice; one cwt. of beet yields only one lb. of sugar.—*Cow-parsnep sugar.* The stalks, when dry, exude sugar; four lb. yield four oz.

MAPLE SUGAR. Much used in America.—*Walnut sugar.*

Made by the Tartars.—*Birch sugar.* Are all made by wounding the trees in the spring of the year, by boring a hole under a large arm of the tree, quite through the wood, as far as the bark on the opposite side, collecting the sap that flows from the wound, adding a little chalk to remove the acid in the juice, and evaporating it to a proper consistence. The sugar maple yields about six lb. from each tree in a season.

PEAR SUGAR. Obtained by expressing the juice, adding chalk to saturate the superabundant acid, and evaporating it to a due consistence; it does not crystallise, and is a kind of white treacle.

APPLE SUGAR. One cwt. of apples yield about 84 lb. of juice, which produces nearly 12 lb. of a similar substance.

TODDIES. *Cocoa toddy.* Procured by cutting off the tip of the spathe of *cocos nucifera*; drank while fresh to remove constipation. *Palmyra toddy.* From *borassus flabelliformis*; runs for about four months, each tree will yield about six pints of toddy, daily.—*Malabar toddy.* From *caryota urens*, flavour inferior to cocoa or palmyra toddy.—*Mysore toddy.* From *elate sylvestris*, pleasant tasted; runs for about three months; fifty trees will yield daily about seventeen gallons.—*Nipa toddy.* From *cocos nypa*; mostly made into wine. All these toddies are refreshing drinks when drank before sunrise, and are also used as yeast by the bakers; as the heat of the day comes on, they ferment and produce wine, which turns by eveningtide into vinegar.

JAGGERIES. *Cocoa jaggery, Ténne véllum.* Raw sugar made from fresh cocoa toddy by evaporation.—*Palmyra jaggery, Pan-nay véllum.* From Palmyra toddy, six pints of toddy yield one lb.—*Malabar jaggery, Koondee panei véllum.* From Malabar toddy.—*Mysore jaggery.* From Mysore toddy; seventeen gallons will make about 46 lb. of jaggery. The jaggeries are used for the same purposes as the raw sugar of the cane.

MUST, Mustum. The juice of ripe grapes.—*First runnings, Lixivum, Procopum*;—*Last runnings, Circumcidaneum, Tortivum.* Are all nutritive and laxative.—*Carenum.* Must boiled to two-thirds.—*Sapa.* Must boiled to one-half.—*Vin cuit, Defrutum.* Must boiled to a fourth or third part; is much used in Palestine, Egypt, and other Mahometan countries as a sweetmeat.

GRAPE SUGAR. The brown sugar obtained from grapes as from pears, being previously freed from the acids and sulphate of lime that existed in the original juice; yields, by refining, 75 lb. in 100 of a white granular sugar, 24 of a kind of treacle, with a little gum, and some malate of lime.

ARBUTUS SUGAR. From the fruit of the strawberry-tree, which has been found to yield one-fifth of its weight of sugar, and rum may be made from the rape.

HOLCUS SUGAR. The large grass, *Holcus Cafer*, was brought from the South of Africa, and has begun to be cultivated in some parts of Italy, Bavaria, and Hungary. The sugar that it yields is said to be equal to that of the cane.

DULSE SUGAR. Extractible from fuci, is analogous to the sugar extractible from onions, and the crystallisable sugar of manna: they do not form wine, but change at once to vinegar.—Sugar may also be made from many other plants.

STARCH SUGAR. One hundred parts of starch are to be mixed with 200 of water, and added gradually to another 200 of water, previously mixed with one of oil of vitriol, and brought to a boiling heat in a tinned copper vessel: the mixture is kept boiling for thirty-six hours, water being occasionally added to keep up the original quantity: some bone black is then added, and also some chalk to get rid of the acid: it is afterwards strained and evaporated by a gentle heat to the consistence of a syrup, and set by to crystallise. This sugar resembles that of grapes. If the quantity of oil of vitriol be increased to five or six parts, a few hours' boiling will suffice.

POTATO SUGAR, *Sirop de pommes de terre.* From the washed pulp of potatoes, by the same process; used to make beer, and potato whiskey.

RAG SUGAR. Sugar has lately been obtained by treating linen rags with water acidulated with oil of vitriol, in the same manner as starch for starch sugar.

SPANISH LIQUORICE, *Black sugar, Succus glycyrrhizæ simplex, S. Hispanicus.* By boiling liquorice root in water, straining the decoction, and evaporating to dryness, but is usually imported; a common demulcent, taken ad libitum: reduced by adding the pulp of plums.

EXTRACTUM GLYCYRRHIZÆ. The same, but evaporated only to a consistence fit for rolling into pills; demulcent, ʒj to ʒiij; frequently used to cover the taste of aloes and other medicines, in draughts or mixtures. The root yields about half its weight of this extract.

CASSIA PULP, *Pulpa cassiæ extracta, Cassiæ pulpa.* The pods of cassia fistula are broken, the pulp washed out with cold water, strained, and evaporated to a pilular consistence; laxative, ʒss to ʒj, but seldom used separate. Four lb. new pods yield about one lb. pulp.

TAMARIND PULP, *Pulpa tamarindi extracta, Tamarindi pulpa.* Prepared like cassia pulp; cooling, laxative, ʒss, to ʒjss, or from ʒij to ʒiij may be added to lbj of water for a cooling drink.

PULP OF PRUNES, *Prunorum Gallicorum pulpa.* Prepared in

the same manner from French prunes, but they require boiling in a small quantity of water to soften them ; use the same.

ROB OF ELDER BERRIES, *Rob baccharum sambuci sine saccharo*. *Succus baccae sambuci inspissatus*. Juice of the berries evaporated by a gentle heat ; sudorific, diuretic.

ROB OF BLACK CURRANTS, *without sugar*. *Rob de ribes*. As the preceding ; diluted with water, it is used in cleansing gargles. —The pulps or juices of other sweet fruits may be prepared in a similar manner.

GUMS.

The word gum is also used as an adjective to signify any exudation from plants, whether gummy, gummy resinous, or even resinous, which is in a lump, as gum opium, powdered opium, ammoniac in tears, gum ammoniac, and the like.

WHITE GUM ARABIC, *Gomme Turique*, *Gummi Arabicum*, *G. Turicum*, *Acaciæ gummi*, *Mimosæ Niloticæ gummi*. In small lumps, principally white : Turkey. The *official preparations* are very numerous.—The principal are *Mucilago acaciæ*, *L. E. D.* *Emulsio Arabica*, *D.* *Mist. cretæ*, *L. D.* *Confect. amygd.* *L. D.* *Pulv. cret. comp.*, *L. D.* *Pulv. tragac. comp.*, *L. D.*

YELLOW GUM ARABIC, *Brown gum Arabic*, *Gum babul*, *Gum barbarâ*, *Gomme de Jedda*, *Karouvelum pisin*. In small lumps, from *Mimosa Arabica*, yellower or darker than that of *M. Nilotica*, not so soluble in water, and covers its surface with a pellicle, which in making pastes and syrups is apt to fall to the bottom and burn too.

GUM SENEGAL, *Gomme Arabique*, *Gummi Senegalense*, *G. Seneca*, *G. Senegæ*. In large lumps, round, brown, from *Mimosa Senegalensis*. These gums are nutritive, and used as food by some negro nations ; demulcent, ʒj to ʒij, ad libitum ; also used as a cement : to reduce them to a fine powder they must be previously dried, or the operation performed in a heated mortar, with a hot pestle.

MARRONS, *G. Turicum*. Gum Senegal concreted together in large masses by moisture.

HEAD-TREE GUM. *St. Helena gum*. Very dark, nearly black, from the *Melia azedarachta* ; used by the dyers.

CASHEW GUM, *Brazil gum*, *Gomme d'acajou*. Reddish yellow, astringent ; its mucilage scarcely adhesive.

LARCH GUM, *G. Orenburgense*. P. Ross, exuded from the larch, is reddish, nearly transparent, not so glutinous as gum Arabic, tasting rather resinous.

CHERRY-TREE GUM, *G. cerasi* ;—*Peach gum*, *G. amygdalæ*

Persica;—*Plum-tree gum*, *G. pruni*. Substituted for gum Arabic by country practitioners; differ, however, in their chemical qualities from that gum, being what the chemists call cerasine or tragacanthine.

EAST INDIA GUM, *Bengal gum*, *Vullam pisin*. From the wood apple tree, *Feronia elephantum*; answers better for mixing colours than gum Arabic.

AMSA, *Kumarkuni*. Opaque; sold in Upper India: used in ozaena.

COTTON-TREE GUM. From *Bombax pentandrum*: used with spices in bowel complaints.

OLIVE-TREE GUM, *G. olivæ*. Contains olivile.

LICHEN GUM. Several species of lichen yield, by infusion, or decoction in water and evaporation, a gum similar to gum Arabic, and which may be applied to the same uses; as *Lichen coralloides*, which yields about 14lb. by the cwt.; *L. esculentus* about 13; *L. pulmonarius*, and *L. farinaceus*.

HYACINTH GUM. May be obtained from the roots of *Hyacinthus non scriptus*, common wild hyacinth or harebell; formerly used by fletchers to glue feathers to arrows.

LOGWOOD GUM. In drops, often the size of a hen's egg, deep red, appearing black, sweet, very brittle.

GUM KUTEERA, *Gomme Bassora*, *Gummi vermiculatum*. In loose wrinkled drops, from the *Sterculia urens*, without smell or taste, whitish, mostly transparent, forms a soft jelly in water; but if reduced to powder and boiled in water for a quarter of an hour, it is entirely dissolved; a tea-spoonful of the powder gives three pints of water the consistence of a syrup; used as a varnish.

GUM TRAGACANTH, *G. kuteera*, *Gummi tragacanthæ*, *Tragacantha*, *Astragali tragacanthæ gummi*. Exuded from *Astragalus verus*. From Aleppo, in cases; ℥j of this renders water as thick as would be done by ʒj of gum Arabic; demulcent, and from its viscidty used in sheathing the fauces, and in allaying tickling coughs: used also to dress ribands, laces, and in calico-printing. *Official preparations*.—*Mucilago astrag. tragacanthæ*, *E. D.* *Pulv. tragac. comp.*, *L.*

GUM AGATY. From *Æschynomene grandiflora*.—*Thoa gum*. From *Thoa urens*.

Gum of Pitcairnia crystallina;—*Gum of Actinophyllum angulatum*;—*Gum of Actinophyllum pedicellatum*. Scarcely known.—Gum may also be obtained from many other plants.

BRITISH GUM. Made by heating starch to the temperature

of 6 or 100 deg. Fahr. so that it may melt, exhale a peculiar scent, and become brown: used by the calico-printers.

MYSACHIE. A gum, or gum resin, brought from Arabia, and used in India.

GUM-RESINS.

Natural exudations from plants, miscible with water, but neither saccharine nor gummy. Unless otherwise ordered, gum resins are purified by being softened by heat, or by a small quantity of water, and by pressing the softened mass through a canvas cloth.

GUM ALOUCHI. From *Wintera canella*? very odoriferous, soft, dark-coloured.

GUM AMMONIAC, *Gummi ammoniacum, Ammoniacum.* Obtained by incision of a plant like fennel, or from *Heracleum gummiferum*: internally stimulant, expectorant, gr. x to ʒss diffused in water ʒij. *Official preparations.*—*Mistura ammoniaci, L. D. Pil. scill. comp., L. E. Emplast. ammoniaci, L. Emplastr. Ammon. cum Hydrargyro, L.*

ARTICHOKE GUM, *Kunkirzul,* From *Cynara scolymus*; emetic.

ASSA FETIDA, *Devil's dung, Hing, Assafœtidæ gummi-resina, Ferulæ assafœtidæ gummi-resina.* Exudes from the fresh cut surfaces of the root of *Ferula assafœtida*, from which it is scraped off when dry, and a fresh surface made by paring the remaining root till it is exhausted: purified as gum ammoniac; expectorant, stimulant, and antispasmodic, gr. x. to ʒss in water ʒij; used also in clysters. Imported in cases and casks of various weights. *The principal officinal preparations.*—*Mist. assafœtidæ, L. D. Tinct. assafœtid., L. E. D. Spirit. ammon. fœtid., L. E. D. Pil. galb. comp., L.*

GUM BDELLIUM, *Bdellium, Bd. ex Oriente,* Dale's Pharm.

MYRRHA IMPERFECTA. Exudes from a nondescript *Amyris*, called by Adanson niottout; has most of the properties of myrrh, used indiscriminately with it. Brought mixed amongst gum Arabic and myrrh from India and Turkey.

BDELLIUM EX GUINEA, Dale, *Gummi rubrum astringens, Kino P. D.* Yielded by the *Butea frondosa*? ruby coloured, brittle, contains a very small proportion of resin.

ARABIAN BDELLIUM. From *Borassus flabelliformis.*

ITALIAN BDELLIUM. From *Chamærops humilis.*

OPOCALPASUM. A kind of bdellium yielded by some unknown *Amyris*; tough like wax, dark brown,

EUPHORBIA, *Euphorbia gummi-resina*. Exuded from incisions made in the *Euphorbia officinarum*, *E. antiquorum*, and *E. Canariensis*; a most violent drastic hydragogue, formerly used, to gr. v or x, corrected with vinegar or lemon juice; externally stimulant, ulcerating. Imported from Barbary in serons of 100 to 150lb.

GALBANUM, *Galbani gummi-resina*, *Bubonis galbani gummi-resina*. Exudes spontaneously, but generally from incisions made in *Bubon galbanum*: imported from Turkey; emmenagogue and antispasmodic, gr. x to ʒj; externally resolvent. *Principal officinal preparations*.—Pil. galb. comp., *L.* Tinct. galb., *D.* Emplastr. galb. comp., *L.*

RED GALBANUM. Analogous to sagapenum; produced from *Bubon gummiferum*.

GUMMI GALDA. Greyish; has the appearance of dark gum hock.

CEYLON GAMBOOGE, *East Indian picked gamboge*, *Gummi guttæ gambiæ*, *Gambogia*, *Cambogia*. From *Stalagmitis cambogioides*: hydragogue, useful in dropsy, gr. iij or iv, horâ quâque tertiâ, until it operates; makes an elegant yellow colour.—*Gamboge in sorts*. From *Cambogia gutta*.—*Siamese gamboge*. In tears; from *Garcinia morella*?—*Mexican gamboge*. From *Vismia guttifera* and *V. sessiliflora*. *Officinal preparation*.—Pil. cambogiæ comp., *L.*

GUM IVY, *Gummi hederæ*. Produced by wounding the tree; reddish brown, burning with an aromatic odour, acrid, exulcerating; used dissolved in vinegar as a depilatory and odontalgic; and in substance to rub over baits to render them attractive to fish.

GUM HOCK. Some specimens of this gum resemble elemi, others are dark-coloured.

PERASO PERUVIANUM, (Coll. of Phys. collection,) *East India kino*, *Amboyna kino*, *Kino P. L.* Yielded by *Ptero-carpus erinaceus*. Solution in water is rendered clear and of a deep brown colour by potash; astringent, but uncertain.

BOTANY BAY KINO, *Brown gum of Botany bay*, *Kino P. E.* Obtained from the brown gum tree, *Eucalyptus resinifera*. Its tincture is not rendered turbid by water.

LETTUCE OPIUM, *Lactucarium*. Obtained by incision from the flowering stems of the garden lettuce, *Lactuca sativa*; recommended by Dr. Duncan, senior, as a substitute for opium, as possessing its anodyne without some of its injurious effects; it has been used with advantage in allaying the pain of chronic rheumatism and colic; in checking diarrhœa, and in allaying cough.

MYRRH, MYRRHA. Origin unknown; attenuant, antiseptic, tonic, vermifuge, and emmenagogue, gr. x to ʒss.—*Liquid myrrh, Myrrha liquida, Stacte.* Obtained by decoction? similar to myrrh in its qualities, differing only in consistence. *Official preparations.*—The principal are Tinct. myrrhæ and pil. aloes cum myrrha, *D. L. E.* Pil. ferri comp. *D. L.* Pil. galb. comp., *D. L.* Mist. ferri comp., *D.* Tinct. aloes et myrrhæ, *E.*

CUMBI GUM. Not unlike myrrh, and used for it in India, but in smaller doses, as being stronger; also in stopping the progress of sphacelus: origin not known.

VILLEY BOLUM. A coarse kind of myrrh, used in Lower India: origin unknown.

GUM SASSA. From an Abyssinian shrub, mixed with myrrh.

TURKEY OPIUM, Opium, Meconium, Papaveris somniferi succus spissatus. From the capsules of the white poppy by incision; but Miller thinks the Turkey opium is from a different plant, as the capsule is not of the same shape: one of the principal instruments of physicians; anodyne, narcotic, gr. ss to gr. ij, or even more, as the person is accustomed to its use or not, and also according to the disease that is present; so that it can only be exhibited with due effect, or even with safety, by a person who is not only skilful, but also acquainted with the constitutional habits of the patient as to this drug; some prefer a full dose at once, others repeated small doses: it is thought to be anodyne, even when used externally. The effect of opium taken improperly is best obviated by a copious exhibition of lemon juice, with stimulants, and the affusion of cold water on the head. *Official preparations,* very numerous.—The principal are, Tinct. opii, *D. E. L.* Tinct. opii camph., *D. L.* Acetum and vinum opii, *D.* Pulv. ipecac. comp. *D. E. L.* Pulv. cornu usti cum opio, *D. L.* Confectio opii, *L.*

OPIUM PURIFICATUM MOLLE, P. L. Picked opium softened with water to the consistence for making pills.—*Op. pur. durum, P. L.* Picked opium dried in a water bath until fit for powdering.

STRAINED OPIUM, Extractum Thebaicum, Opium colatum, O. purificatum, Laudanum opiatum. Soften the gum in a small quantity of water, not exceeding its own weight, press through canvas, and reduce by evaporation to a proper consistence, for pills.

EXTRACTUM OPII. Rub opium ʒvj with water lbij added by degrees, lest the mixture settle; then strain, and evaporate to a proper consistence.

EXTRACTUM OPII AQUOSUM. Rub ʒij of opium with a pint of boiling water, for ten minutes, and pour off the solution; repeat

this a second and third time; mix the liquors and expose them to the air in a broad vessel, for two days, then strain through linen, and evaporate.

HOMBERG'S PURIFIED OPIUM. *Baume's purified opium.* Extract all the part that is soluble, by repeated decoction of 4lb. in three or four gallons of water, until no more is taken up; then mix all these decoctions, evaporate to one gallon and a half, and keep boiling for two, three, or even six months, adding fresh water from time to time; strain the decoction and evaporate to the consistence for making pills.

CORNETTE'S PURIFIED OPIUM. Separate the resin by redissolving the common extract in water, strain the solution, and again reduce it by evaporation to an extract; repeat this process several times.

JOSSE'S PURIFIED OPIUM. Work opium under water, to separate the glutino-resinous part which remains in the hand: filter the water and evaporate to an extract. It still contains some resin, but is much less disagreeable in its smell, and considerably improved as an antispasmodic.

ACCARIE'S PURIFIED OPIUM. Digest opium with charcoal powder in water for some days; strain the liquor, clarify with whites of egg, and evaporate in a water-bath to an extract. Very mild in its effects, like the former.

POWEL'S PURIFIED OPIUM. Boil opium in water, as long as any thing is taken up by it; then digest the residuum in spirit of wine, mix the two solutions, and evaporate them to a proper consistence.

EAST INDIAN OPIUM. In round masses; black, smooth, like an extract, totally soluble in water, and the solution is precipitated by acetate of barytes, by which the solution of Turkey opium is not altered; and more copiously by oxalic acid; it also leaves no glutinous residuum on solution; is considered weaker than that of Turkey.

ENGLISH OPIUM, *Opium Anglicum.* Has the same extract-like appearance as the East Indian; light-coloured, but is said to be equal if not superior in quality to the Turkish: Buckinghamshire.

WILD CUMIN OPIUM. Yielded by the *Hypecoum procumbens* and *H. pendulum*; narcotic, and similar to opium.

CHERRIS. From *Cannabis jeea*, most powerfully narcotic.

MOMEA. The gum cherris purified.

GUM OPOPANAX, *Opopanax, Pastinacæ opopanacis gummi-resina.* Exudes from incisions made in the roots of *Pastinaca*

OPOPANAX, or of *Daucus gummifera*; carminative, emmenagogue, and purgative, gr. x to ʒj.

ENGLISH OPOPANAX. From Cornish lovage, *Ligusticum Cornubiense*.

CATRIGHONDOO. Origin unknown; sold in India, in small irregular lumps, light coloured, slightly acid taste; tonic, stomachic.

SAGAPENUM. From *Ferula Persica*, or some nondescript species of that genus, or of *laserpitium*; used as assafoetida and galbanum; dose gr. x to ʒss. *Officinal preparation.*—*Pil. galb. comp., L. D.* *Conserva rutæ, D. L.*

ALEPPO SCAMMONY, *Scammonium Aleppense, Diagridium, Scammonia gummi-resina, Convolvuli scammonia gummi-resina.* From the root of *Convolvulus scammonia*, the tops being cut off for that purpose; when reduced to a very fine powder, by trituration with loaf sugar or tartarum vitriolatum, it is the best vegetable purgative that is known at present, as its effects can be exactly calculated; dose from gr. iij to xv, or more: Turkey. *Officinal preparations.*—*Extract. colocynth. comp., D.* *Pulv. scammonii comp., L. D. E.* *Electuar. scammonii, D.* *Confectio scammonii, L.*

FRENCH SCAMMONY. The juice of *Cynanchum Monspeliacum*; weakly cathartic.

SMYRNA SCAMMONY, *Scammonium Smyrnense.* The juice of the *Periploca scammonium*, coarser than the Aleppo scammony, and very sandy; more violent in its operation; imported in cakes packed in chests, 1l. the lb.

POTATO SLIP SCAMMONY. From *Convolvulus Brasiliensis*.

HOG-FENNEL GUM, *Gummi peucedani.* From *Peucedanum officinale* by incision; opening, diuretic.

ELM TREE GUM, *Ulmine, Gummi ulmi.* Black, hard, shining, a few drops of nitric acid change it to a rosin.

WATERY JUICES OF PLANTS.

ACACIA. The juice expressed from the pods of *Mimosa Nilotica*, inspissated to dryness.

GERMAN ACACIA, *Acacia Germanica, Succus prunorum sylvestrium.* The juice of unripe sloes, inspissated; astringent, substituted for acacia.

ITALIAN ACACIA, *Acacia Italica.* The inspissated juice of *Spartium spinosum*; astringent.

EXTRACTUM ACONITI, *Succus spissatus aconiti napelli.* From the juice of monkshood leaves, evaporated, without separating the

sediment, to the consistence of thick honey; anodyne, sudorific, gr. ss to gr. v, bis terve die.

SOCOTRINE ALOES, *Turkey aloes*, *East India aloes*, *Aloe Socotrina*, *A. lucida*, *A. spicatae extractum*. Reddish brown, glossy as if varished, affording a bright gold-yellow powder; obtained by incision from various species of aloe, and subsequent evaporation; cathartic, gr. x to ℥j; stomachic, aperient, emmenagogue, gr. ij to iij, twice a day; in clysters ℥j as a cathartic or to destroy ascarides; to horses ℥ss to ℥j as a cathartic: from Socotora and Melinda in South Africa *Official preparations* very numerous.—The principal are, Decoctum aloes comp., *L.* Extract. aloes, *L. D.* Extr. colocynth. comp., *L. D.* Tinct. al. and tinct. al. comp., *L. E. D.* Tinct. benzoini, *L. E. D.* Vinum aloes, *L. E. D.* Pil. aloes cum myrrha, *L. E. D.*

HEPATIC ALOES, *Bombay aloes*, *Aloe hepatica*. Contains more rosin than the Socotrine; of a dusker colour, extremely bitter, smell unpleasant; affords a dull olive yellow powder: from Yemen in Arabia, in casks, and sometimes in skins.

CAPE ALOES, *Aloes Capensis*. From the same plant as the Socotrine, but prepared with less care; produces a greenish yellow powder; from Melinda.

BARBADOES ALOES, *Aloe vulgaris extractum*. Resembles aloe hepatica; from Barbadoes in gourd shells, holding from 6 to 70lb.

PURIFIED ALOES, *Aloe lota*, *Gummi aloes*, *Extractum aloes*, *E. al. purificatum*. Soak Socotrine aloes in warm water, pour off the clear liquid, and evaporate; more purgative than crude aloes, and less irritating; dose gr. v to xv.

AGAVE ALOES. From *Agave Americana*; sudorific.

EXTRACTUM ANEMONIS PRATENSIS. The undepurated juice boiled down; resolvent, in chronic diseases.

YEROOCUM PAWL. The inspissated juice of *Asclepias gigantea*, used in lepra, gr. v in a day, continued for weeks.

EXTRACTUM BELLADONNÆ, *Succus spissatus atropæ belladonnæ*. From the leaves of deadly nightshade, narcotic, diaphoretic, resolvent, gr. ss to gr. iij, bis terve die. It yields 1-9th of extract.

SUCC. SPIS. CICUTÆ, *Extr. conii*, *Succ. spis. conii maculati*. From hemlock leaves; alterative, resolvent, used in obstinate disorders; beginning with a small dose, say gr. ij, bis terve die.

JUICE OF HYPOCISTIS, *Succ. hypocistidis*. From the berries of *asarum*, or *Cytinus hypocistis*.

EXTR. HYOSCYAMI, *Succ. spis. hyoscyami*, *Succ. spis. hyosc.*

nigri. From henbane leaves; anodyne, antispasmodic; gr. ss to ʒss a day; 1 cwt. $\frac{3}{4}$ of the green herb yielded 11lb. of extract.

ROB DIACARYON SINE MELLE, *Extr. juglandis immaturi*. The juice of unripe walnuts boiled down; vermifuge, its taste being covered with cinnamon water.

THRIDACE, *Extr. lactuæ, Succ. spis. lactuæ sativæ*. From the expressed juice of common garden lettuce; narcotic, used as a substitute for opium: gr. ij to gr. x, bis terve de die.

EXTR. STRAMONII. From juice of thorny apple: narcotic and antispasmodic, gr. i to gr. viij, bis terve de die.

SUCC. SPIS. LACTUÆ VIROSÆ. From strong-scented wild lettuce, laxative, diuretic, gr. iij to xv daily, in obstinate dropsies.

CONCENTRATED ORANGE JUICE, *Succ. spis. aurantiorum*.—*Concentrated lemon juice, Succus spissatus limonum*. From the juice of oranges, or lemons; for use where the fruit cannot be obtained.

LEMON JUICE. From the lemons which get spoiled before they can be sold.

CITRON JUICE, *Acetositas citri*. Exported from Italy in large casks.

VERJUICE, *Omphacium*. The juice of unripe grapes, the juice of crab apples; distilled vinegar is sold for it.

A number of juices of plants are kept by the French druggists in flasks, covered with oil, but they are not called for in England: even citron juice has ceased to be kept in our shops.

WATERY EXTRACTS.

Prepared by boiling plants in water, straining the decoction, and evaporating it to a proper consistence. Barry's extracts differ from the common by the evaporation being carried on in a vacuum produced by admitting steam into the apparatus, which resembles a retort with its receiver; the part containing the liquor to be evaporated being a polished iron bowl. As the temperature is much lower than in the common way, the virtues of the plant are less altered, the extracts are generally green, and contain saline crystals, but some of them will not keep. Extracts are mostly used for the same purposes as the plants themselves, but in a smaller dose. To make extracts smooth, chemists sometimes add to each quarter of a cwt. 1lb. of gum Arabic, and a pint of olive oil; or to every 3lb. add a little gum, ʒij of olive oil, and ʒj of rectified spirit, which will give it a gloss.

EXTRACTUM CACUMINUM ABSINTHII. From wormwood tops, gr. x to ʒss, ter die.

EXTR. ACORI. From *Calamus aromaticus*.

HORSE ALOES, *Musambrium, Aloe caballina.* From the decoction of the leaves of aloes; dark coloured, foetid, used only for inferior horses and other cattle.

E. RADICIS BRYONIE ALBÆ. From a decoction of the root; in doses of 3ss to ʒj.

E. CALUMBÆ. From the root.

E. ANTHEMIDIS, *E. florum chamæmeli, E. chamæmeli, E. anthemidis nobilis.* From chamomile flowers; gr. x to ʒj, bis terve die.

CASH CUTTI, *Catechu.* From *Acacia catechu*, almost black, hard, very bitter, slightly astringent and tonic; used as an astringent masticatory: brought from Acheen and Pegu.

CUTTA CAMBOO, *Gutta gambir.* From *Nauclea gambir*; also from the *Funis uncatu*s of Rumph, and another tree; of a light brown colour, slightly bitter, powerfully astringent; in lozenges, balls, and flat cakes; used as a masticatory, to fasten the teeth and sweeten the breath; from Pegu.

JAPAN EARTH, *Bengal cutch, Terra Japonica, Gummi Lycium? Ligni mimosæ catechu extr., Catechu extr.* From the wood of the *Mimosa*, or *Acacia*, catechu; in round masses, of a dark chocolate colour, solid, resinous and shining; appears to be prepared by decoction and evaporation by heat; it is imported mixed with catechu; astringent and tonic, gr. x to ʒj; also used in dyeing and tanning.

CATECHU, *Bombay cutch.* In small squares, of a pale reddish brown, texture lamellated, grain rough; appears to be prepared by cold infusion, and drying in the sun; imported by itself, or mixed with terra Japonica.

E. COLOCYNTHIDIS MOLLE. From the pulp of bitter apples; actively purgative, gr. v to ʒj.

ESSENTIAL SALT OF BARK. Bruise bark, and infuse in cold water, strain, and evaporate by a very gentle heat.

E. OF BARK, *E. corticis Peruviani, E. cinchonæ molle.* Boil 1b j of bark three times, in a gallon of water, filtering each decoction while hot; add the several decoctions together, and evaporate to a proper consistence for pills; 56 lb. of bark yielded 18½ lb.

HARD EXTRACT OF BARK, *E. corticis Peruviani durum, E. cinchonæ durum.* Reduced by drying to a state fit for being powdered.

E. OF YELLOW BARK, *E. cinchonæ flavæ, E. of red bark, E. cinchonæ rubræ.*

E. CENTAURII MINORIS.

E. OF SAFFRON, *Polychroite*, *E. croci*.

BLACK EXTRACT, *Hard multum*, *E. cocculi Indici*. Used in brewing ale.

E. DIGITALIS.

E. DULCAMARÆ.

E. RADICUM ENULÆ CAMPANÆ. From elecampane root.

E. FUMARIÆ.

GAUB. From *Embryopteris glutinifera*; very astringent, used in dyeing and tanning: imported from the East Indies.

E. CACUMINUM GENISTÆ. From broom tops: 3ss to 3j or more in dropsy.

E. OF GENTIAN, *E. gentianæ molle*, *E. radice gentianæ*, *E. gentianæ luteæ*. From gentian root; tonic, gr. x to 3ss, bis terve die: $\frac{1}{2}$ a cwt. of gentian yielded 25lb. of extract.

E. GENTIANÆ DURUM.

E. LIGNI GUAIACI MOLLE. From lignum vitæ shavings.

E. LIGNI GUAIACI DURUM.

E. LIGNI CAMPECHENSIS, *E. hæmatoxyli*. From logwood; gr. x to 3ss in cinnamon water, two or three times a day, or after every stool: 80lb. of logwood yielded 14lb. of extract.

E. RADICUM HELLEBORI NIGRI, *E. hellebori nigri*. From black hellebore root; alterative, gr. iij to viij, bis terve in die; cathartic, resolvent, gr. x to ʒj: 28lb. of the root yielded 11lb. of extract.

E. OF HOPS, *E. humuli*. From hops, anodyne in cases which do not admit the use of opium, gr. v. to ʒj, pro re nata.

EXTRAIT DE LUPULINE, *E. lupulini*. From lupuline, matière jaune de houblon, by infusion in cold water; bitter, aromatic, dose not determined.

E. DE LUPULINE AVEC LE DECOCTION, *E. lupulini coctione paratum*. Bitter, slightly aromatic; contains some of the resin of the lupuline.

E. RADICIS JALAPÆ. Prepared by water only, is much milder in its operation than those with spirit; purgative, diuretic.

THERIACA GERMANORUM OPTIMA, *E. baccarum juniperi optimum*. Soak juniper berries in cold water, and evaporate the infusion carefully poured off from the sediment; sweet tasted, semitransparent, and amber-coloured.

THER. GERM. VULGARIS, *E. bacc. junip. sine contusione*. Boil juniper berries in water, and evaporate the decoction; agreeable

to the taste, aromatic, and diuretic: about 1-9th of extract is obtained.

THERIACA PAUPERUM, *E. bacc. junip. contusarum*. The berries are bruised previous to decoction; is dark brown, thick, sharp tasted, and by no means agreeable; diuretic.

E. HELLEBORI ALBI. Emetic and purgative.

COCCOLOBA KINO. From sea-side grape, *coccoloba uvifera*; its infusion is precipitated of a blue black by the oxysulphate of iron; astringent, useful in loosenesses, internal hæmorrhages, and the whites, gr. x to ʒj: from Jamaica, sold for kino.

E. OF LILY OF THE VALLEY. Cathartic.

E. OF MAHOGANY. Prepared by decoction; sold for kino, and used in tanning.

CONCENTRATED EXTRACT OF LETTUCE. From the outward bark of the stem, and old leaves of garden lettuce, after the flowering, when the leaves begin to grow yellow, by cold infusion, straining without pressing, and evaporation on plates with a very gentle heat; anodyne, gr. v to ʒss.

GROUTS. Ground malt, 6 or 8lb., water 1 gallon and a half, kept covered and warm until in full fermentation, stirring it six times a-day, then evaporated to the consistence of a thick paste; used in Devonshire to make white ale.

E. MILLEFOLII. Astringent and tonic.

E. OF MIMOSA BARK. Used for tanning leather; one cwt. equal to four or five of oak bark; from New South Wales.

E. OSMUNDÆ REGALIS. Used in rickets.

E. PAPAVERIS, *E. capitum papaveris somniferi*. From broken poppy-heads, the seed being taken out, by decoction and evaporation; anodyne, dose gr. ij to ʒj: 28lb. of broken heads yielded 5lb. and a quarter of extract.

E. QUASSIÆ. From the wood; substituted for hops, in brewing.

E. OF OAK BARK, *E. cort. quercus*. From oak bark: astringent, gr. v to ʒj, or more; from Turkey and the Black Sea; used in tanning: retail, for medicine.

E. OF PEPPER, *E. piperis nigri*. From the decoction; much stronger tasted than pepper. Used in agues.

E. PYROLÆ UMBELLATÆ.

E. OF BATANIA. Resembles kino, and is sold for it; astringent and tonic; is fusible, produces a reddish sediment in a solution of sugar of lead, and very slowly produces a sediment in a solution of emetic tartar; from Brazil; used to colour wines red.

F. FOLIORUM RUTÆ, *E. fol. rutæ graveolentis.* By evaporating a decoction of rue leaves; stomachic, carminative, and emmenagogue: gr. x to ℥j, bis terve in die.

E. OF SAVINE, *E. sabinae, E. fol. sabinae.* As the former, stimulant, emmenagogue, gr. x to ℥j, bis terve in die.

E. SARSAPARILLÆ. From sarsaparilla root; gr. x to ℥j, in pills; 20lb. of fibres yielded 6lb. of extract.

E. SENNÆ, *E. fol. cassiæ sennæ.* From senna leaves, serves as a basis for purgative pills, having scarcely any power of its own.

E. STRAMONII, P. L. 1824. Sem. stram. lb. j, water Ovijj soak for four hours, bruise, boil to four pints; strain while hot and evaporate; anodyne and narcotic: dose, gr. $\frac{1}{2}$ to gr. ij.

ESSENCE OF SPRUCE. From the twigs of Scotch fir; stimulant and tonic: used to flavour treacle beer instead of hops.

EXTRACTUM STRAMONII. Prepared from the juice and decoction mixed together; 158lb. of fresh stramonium yielded 37lb. of juice; the cake was boiled in water, and the decoction added to the juice; the whole yielded, by evaporation, 3¹lb. of extract, which was full of particles of nitre; narcotic, in doses of gr. j to v, bis in die.

E. TANACETI, tonic and vermifuge.

E. TARAXACI. From bruised fresh dandelion roots in boiling water; resolvent, diuretic, laxative, gr. x to ℥j, with vitriolated tartar.

E. FOL. TARAXACI. From the herb, a cwt. and $\frac{3}{4}$ yielded, by expressing the juice and then evaporating, 8lb. and a half of extract.

E. OF TEA. Dry, solid, blackish, shining, and very brittle; it has a very weak smell and taste of tea, mixed with a styptic flavour, is easily dissoluble in the mouth, and tinges the spittle green; the solution in boiling water is brownish green, of a rough taste, and rather disagreeable smell; brought from China.

E. VALERIANÆ. From the root, in a covered vessel; antispasmodic, gr. x to ʒss, or more.

MIXED EXTRACTS.

Prepared partly by water, and partly by spirit of wine, or by a mixture of both.

EXTRACTUM RHEI. Soak 1lb. of rhubarb in seven pints and a half of water, mixed with half a pint of rectified spirit, for four days; strain, let it settle, and evaporate the clear liquor; cathartic, gr. x to ʒss, but principally used as a basis for purging pills.

E. CORTICIS PERUVIANI CUM RESINA, *Extr. cinchonæ officinalis,*

Extr. cinch. resinosum. Soak lb. j of bark in rectified spirit lb. iij, for four days, and pour off the tincture; boil the residuum in water; filter, and evaporate to the consistence of new honey; then add the tincture, previously brought to the same consistence by distilling off the spirit, and evaporate the whole in a gentle heat to a proper consistence. Astringent, tonic; dose gr. x to xxx, in pills.

E. CASCARILLÆ RESINOSUM. From cascarilla as the extr. cort. Peruv. c. resinâ; tonic, gr. v to ʒj, bis terve in die; 28lb. yielded 5½lb. of extract.

E. JALAPII MOLLE, E. jalapæ resinosum, E. convolvuli jalapæ. From jalap, as the extr. cort. Peruv. c. resinâ above mentioned; purgative, gr. x to ʒj; it ought to be well ground, with a little sugar or potassæ sulphas to hinder it from griping; 18lb. of jalap yielded 16lb. of extract.

E. JALAPÆ DURUM.

E. PODOPHYLLI, P. U. S. Cathartic.

FARINAS AND FECULAS.

FARINAS.

FINE WHEAT FLOUR, Ador, Farina, F. tritici. The finest flour obtained by sifting the meal produced in the first grinding of wheat between sharp stones by a sieve of 64 wires to the inch; used for pastry.—*Middlings.* The remainder of the flour of the first grinding that will pass through a coarser sieve; used for making household bread, but is mostly reground.—*Seconds.* The finest part of the flour, obtained by grinding middlings over again, between blunt stones; used for making bakers' fine wheaten bread.—*Pollard.* The coarse flour, from whence the seconds has been sifted: used for making sea biscuits and gingerbread, and to fatten poultry and hogs. According to Accum, 32 pecks of wheat in the London mills yield 38½ of flour, 8 of pollard, and 12 of bran; the bulk of the wheat being doubled by grinding. *Country household flour.* Is usually ground only once, and sifted to 4-5ths of the weight of the wheat.—*Ammunition flour.* Is required to be ground and sifted to 1960-2280ths, or very nearly 5-6ths the weight of the wheat.—*Baked flour, Farina tosta.* Astringent; used to make food for infants that are purged.

Wheat flour is distinguished by its cohesiveness, which is so great, that on being squeezed in the hand, the lump will be some time before it loses its shape. Liquid ammonia (aqua ammoniæ puræ) turns it yellow; and, if any other corn has been ground with it, pale brown; or if peas or beans have been ground with it, a darker brown.

RYE FLOUR, *Farina secalis*. Used to make either a sweet bread, raising the dough by yeast, or an acid bread by using leaven for that purpose; this last is cooling, not so nourishing as the former, but more suited to an animal diet.

BARLEY FLOUR, *Farina hordei*. When made into bread with yeast, it requires the dough to be baked very soon after it is made, as it grows sour almost immediately: a paste of barley-meal and water is used to take the hair off skins, previous to their being tanned.—*Scotch barley-meal*. From big, or bear, dark coloured.—*Prepared pearl-barley*. Pearl barley, highly dried, and then ground; used to make barley-water and gruel.

OATMEAL, *Farina avenacea*. Used to make gruel and bread, resolvent when employed as a poultice.

BEECH MAST MEAL. Is made into bread, but is affirmed to produce hydrophobia. Smiedel. de hydrophobia ex usu fructum fagi, Erlangen, 1762.

GERMAN RICE FLOUR. From German rice, or naked barley, *Hordeum zeocriton*; used to thicken soups; potato starch is sold for it.

FECULAS.

WHEAT STARCH, *Amylum tritici*. From wheat, by treading it in sacks in a current of water; the water being received in troughs is left to ferment, which, decomposing the saccharine substance, renders the starch that is deposited on standing, very pure and white: friable, easily pulverised, crimp between the fingers, without smell or taste; demulcent, perhaps astringent; used for gylsters in diarrhoea, dysentery, &c.—*Foreign starch*. From the pollard and bran of wheat left after sifting away about half its bulk of the finer flour: Lubeck.

RYE STARCH. Floury, greyish white, scarcely crimp, retains the smell and taste of the grain; yields about half its weight of starch.

BARLEY STARCH. Powdery, greyish white, scarcely crimp, retains the smell and taste of the grain; yields rather more than half its weight of starch.

OAT STARCH. Floury, greyish, not crimp, with a weak smell and taste of water gruel. Yields half its weight of starch.

ARROW ROOT, *Fecula sagittaria*, *F. maranta*, *Maranta*, P. U. S. From the root of *Maranta arundinacea*, by pounding or grating it in water, and letting the fecule settle; when rubbed up smooth with a little cold water, and boiling water poured upon this paste, it dissolves easily, by stirring, into a transparent jelly, without requiring to be boiled; nutritive: from the West Indies:

potato starch is sold for it.—*East Indian arrow root.* From *Curcuma angustifolia*.

POTATO STARCH. From raw potatoes, especially those which have been spoiled by frost; very white, globular, crimp, friable, heavy: when held towards the light it has shining particles in it; dissolves in boiling water as easily as arrow-root: 100lb. of potatoes, yield 10lb. to 14lb. of starch; sold for arrow-root, and German rice flour.—*Potato flour, Potato farina.* From boiled potatoes, not soluble in water; manufactured into sago, salep, maccaroni, vermicelli, semolina, tapioca.

PORTLAND ISLAND SAGO, *Gersa serpentariae, Cerussa serpentariae, Fecula ari maculati.* From the root of *Arum maculatum*; prepared in the isle of Portland, and sold to the sick at Weymouth.

CHINA-ROOT STARCH. From *Smilax China*, reddish.

ALOE STARCH. From some species of aloes.

WATER-LILY STARCH. From the root of the yellow water lily.

LIUTA. A kind of starch procured from the roots of several species of *Alstroemeria*, in Peru.

All the above species of starch are prepared in a manner similar to that of wheat or potatoes, and others may be made from different roots or seeds; they are all nutritive.

INULIN. A white farinaceous powder that settles as the decoction of elecampane roots cools: dissolves in water, but does not remain united, separating again as the water grows cold.

SAGO. Prepared from the trunk of the sago tree, and several other kinds of palm trees, by splitting it, bruising the logs in water to separate the fecule, pouring off the water, letting it stand to settle: when the sediment is half dried in the air, it is granulated by being passed through a coarse sieve, and the drying finished first in the sun, and then by fire: a single tree yields from three to four cwt. of sago: from the East Indies, dark red; highly restorative.

YAM SAGO, *West Indian sago.* From the roots of *Dioscorea sativa*.—*Mungo sago.* From the seeds of *Phaseolus mungo*.—*White sago, French sago.* From kidney beans, or haricots.

CASSAVA BREAD. From the root of *Jatropha manihot*, by expression of the juice, and baking the cake that is left; also from *Yucca gloriosa*.

TAPIOCA. From the root of *Jatropha manihot*, by washing the root, and thus preparing a fecule from it, which, when dried, is sprinkled with a little water and steamed, so as to form viscid

irregular masses. These are dried in the sun until quite hard, and then broken into small grains. It is also made in the East Indies.

POTATO TAPIOCA. From potato starch: by boiling it before it is dried, stirring it to break it into lumps.

LINSEED OIL CAKE, *Lini placenta*, *Ground linseed cake*, *Linseed powder*, *Farina lini placentarum*. Used for poultices, but requires some oil or fat to be added to keep it from drying up too hard; used for manure.

COCHIN CHINA LOCK-SOY, *Gummi ex oryza arte facta*. Rice boiled to a kind of paste, and drawn out into threads; transparent; used to thicken soups.—*China lock-soy*. Opaque, and less esteemed.

MEDICINAL FECULES.

ELATERIUM ALBUM. The half-ripe fruit of spurting cucumber cut in pieces, so that the juice may drain out, which is left to settle, the liquid part poured off, and the sediment dried in the sun; hydragogue, gr. ss. to ij.

ELATERIUM NIGRUM, *Extractum elaterii*, *Succus spissatus momordicæ elaterii*. From the nearly ripe spurting cucumber, by expressing its juice, and proceeding as before, drying the fecule with a gentle heat. Dr. Clutterbuck has ascertained that the active principle of wild cucumber is contained almost exclusively in the juice around the seeds, and that genuine elaterium is the matter which subsides spontaneously from this juice obtained without pressure. The chemical constitution of the elaterium of British commerce has been investigated by Dr. Paris. Its constituents, as ascertained by him, are water 4, extractive 26, fecula 28, gluten 5, woody matter 25, *elatine* and bitter principle 12. The bitter principle, though not in itself purgative, quickens the action of the elatine by being combined with it. He considers elatine as a new principle, of a green colour, soft, heavier than water, not at all bitter, insoluble in water, soluble in alcohol. Half a grain or a grain of elaterium acts as a certain drastic hydragogue purge. *Officinal preparation*.—*Extractum elaterii*, *L. D.*

FECULE OF BRIONY, *Fecula bryoniæ albæ*. From the root of white briony; cathartic.

TERRA MAKEMAKEY. A dark brown fecule, origin not known; used to cure ringworms, in New Spain.

COLOURING FECULES.

WOAD, *Glastum*. From woad leaves, by grinding them to a paste, of which balls are made, placed in heaps, and occasionally sprinkled with water, to promote the fermentation; when this is

finished, the woad is allowed to fall down into large lumps; used as a blue dye-stuff.

INDIGO, *Anil. Indicum*. From the leaves and young shoots of several species of *Indigofera* and *Nerium*, by soaking them either in cold water, or still better in water kept warm, and at about 106 deg. Fahr. till the liquor becomes deep green; it is then drawn off, and beat or churned till blue flakes appear, lime-water is then added, the yellow liquor drawn off, the blue sediment dried, and formed into small lumps; used as a blue dye and colour.

SPIRITUOUS LIQUORS.

The strength of these liquors is technically denominated by numbers, referring to an arbitrary strength, called proof, a gallon of which was, in 1762, to weigh 7lb. 11 oz. 3 drachms avoird. When spirit is said to be one to three over proof, it is meant that one gallon of water added to three gallons of the spirit will reduce it to proof; on the contrary, one in three under proof signifies that in three gallons of that spirit there is contained one gallon of water, and the remaining two gallons are proof spirit. As a gallon of water then weighed by law 8lb. 7 oz. 5 drachms avoird., the specific gravity of this proof spirit was to that of water as 910 to 1000. Of late, by a new regulation, the sp. grav. of proof spirit is to that of water as 12 to 13, or 923; and the use of a hydrometer has been introduced, which shows the number of hundred parts of spirit that any liquor will require to be taken from it, or added, to reduce it to proof.

All these spirits are stimulant, but more employed as luxuries than as medicines; used externally in burns, and, when diluted, in ophthalmia; used also in chemistry as a solvent of rosin, and many other substances. Great improvements have of late been made in the apparatus for distillation on the Continent.

COMMON BRANDY, *Eau de vie ordinaire, Aqua vitæ, A. vitis*. From high-coloured white wine, or pale red wines, by distillation in well-tinned stills, until the distilled liquor is no longer inflammable, or is less than 18 deg. Baume, equal to sp. grav. 0.948.

COGNIAc BRANDY, *Eau de vie supérieure*. From the palest white wines, by very gentle distillation, so as to bring over as little of the volatile oil of the wine as possible. It is sometimes kept in glass or stone-bottles, *white Cogniac brandy*, to prevent its acquiring taste and colour from the cask, and to preserve its musky flavour.

EAU DE VIE DE MARC. From dark red wines, as also from lees of wines, scrapings of wine casks, cake left in pressing grapes for wine (80 to 100lb. of which yield 1lb. of eau de marc), and from the lees left in making vinegar, mixed with water, and distilled in untinned copper vessels, with a quick fire to bring over

the oil of the wine, and thus give it the strong flavour required by the lower class of people, and by the English and other northern nations. It sells for $\frac{1}{4}$ or $\frac{1}{3}$ less price than that of ordinary brandy.

EAU DE VIE SECONDE, Repasse. The weak spirit that passes over after the stronger spirit has been taken away, and the receiving-can changed. There is collected of this about $\frac{1}{4}$ of the quantity obtained of stronger spirit. In manufactories this is redistilled; but for family use the worm is not cut, but the distillation is continued until this weak spirit is come over, and the whole mixed product kept for drinking: the residue, *vinasse*, left in the still, is used as a weak acid.

EAU DE VIE A PREUVE DE HOLLANDE. Brandy of any kind that forms a chaplet of beads when shaken; it varies from 18 to 20 deg. Baume, but is usually reckoned as 19: it is the strength at which common brandy is retailed in France.—*Eau de vie* $\frac{5}{6}$ (cinq six). Brandy of any kind, five measures of which will, by the addition of water, make six measures of eau de vie à preuve de Hollande. It is generally reckoned equal to 22 deg. Baume, and is the strength at which the best brandy is usually retailed in France.—*Eau de vie à preuve de huile.* Brandy of any kind in which olive oil will just sink; it is at 23 deg. of Baume, and is the strongest brandy usually drank.

EAU DE VIE FORT. From brandy of any kind redistilled, and the spirit that comes over saved in several separate portions: twelve strengths are usually made in France, the weakest being $\frac{5}{6}$ (cinq six, not cinq sixièmes), and the strongest $\frac{3}{7}$ (trois neuf, not trois neuvièmes); meaning that three measures of this spirit will make, by adding water, nine of eau de vie à preuve de Hollande; it is equal to 38 deg. Baume.

ESPRIT DE VIN, Spiritus vini. All brandy stronger than 28 deg. Cartier, or 28 deg. $\frac{1}{2}$ of Baume, or $\frac{4}{7}$, is esteemed in France as spirit of wine. The Paris Codex uses spirit of three strengths for its tinctures, 22, 32, and 36 deg. Baume.

SPIRITUS VINOSUS RECTIFICATUS, P. D. From brandy, rectified to the sp. gra. 0·84.—*S. vin. tenuior, P. D.* Sp. vin. rect. four pints, water 3 pints, mix; the sp. grav. should be 0·93.

ROUELLE'S SPIRIT OF WINE. Distil off half the quantity of brandy in a water-bath; rectify this twice more, drawing off two thirds each time: mix the last spirit with water, to separate the oil, distil the spirit from the water, and rectify it once more; produces $\frac{1}{4}$ the original quantity.

BAUME'S SPIRIT OF WINE. Distil off $\frac{1}{4}$ the quantity of brandy, and put it by; continue the distillation, and draw off another $\frac{1}{4}$; rectify this last portion in the same manner, and mix the first $\frac{1}{4}$

with the former first running; rectify the second $\frac{1}{4}$ as before, and mix the first $\frac{1}{4}$ with the other; lastly, distil these first runnings, and draw off one-half: produces $\frac{1}{4}$ the original quantity.

PAYEN AND CHEVALLIER'S ALCOOL. Mix a little caustic magnesia with the strongest spirit of wine to be bought of the distillers, and put it by for some time that the magnesia may absorb the acetic acid that is usually contained in their spirit, filter and distil the spirit twice in a water-bath from $\frac{1}{10}$ its weight of very high-dried chlorure of lime. The alcool ought to be 40 deg. Baume strong, or of the sp. grav. 0.823; and a piece of caustic barytes should not break down in it.

RAISIN SPIRIT. From raisins fermented with a proper quantity of water, and distilled with a quick fire, in order to bring over as much as possible of the flavour, this spirit being used to mix with malt spirit: 10 gallons are sufficient to give a brandy flavour to 1600 of common malt spirit.

MALT SPIRIT, *Spiritus frumenti.* Made by mixing 60 quarters of barley meal, ground low, and 20 quarters of coarse ground pale malt, with 250 barrels of water, at about 170 deg. Fahr., taking out 30 barrels of the wort, and adding to this 10 barrels of porter yeast, and when the remaining wort is cooled down to 55 deg. adding 10 quarters more malt, previously mixed with 30 barrels of warm water, stirring the whole together, and putting it to ferment along with the reserved yeasted wort; this wash should be of the sp. grav. 1.084 to 1.111, or brought up to it by adding a strong infusion of ground malt. In the course of 12 or 14 days, the yeast head will fall quite flat, and the wash will have a vinous smell and taste, and be of the sp. grav. 1.002 when it is distilled, and on being redistilled should produce 1440 gallons of spirit, 1 to 10 over proof. The residue left in the still, *distillers' wash*, used to feed pigs.

HOLLANDS, *Brandewyn von koorn.* Ten quarters of rye meal are mixed with a small quantity of cold water, and then as much boiling water added as is necessary to make a thin mash, and set to ferment with a small quantity of yeast; about the third day three quarters of ground malt, previously mixed with warm water, are added, and as much yeast as at first, stirring the whole well together. As soon as the head begins to fall, the whole is put into the still, and the spirit drawn off, rectified by a second distillation to 20 deg. Baume.

BEST HOLLANDS, *Brandewyn von koorn voorloof drie quart.* From wheat and malt, as the common Hollands; but the spirit is rectified to 24 deg. Baume; so that three measures of this spirit will, by adding water, make four of the same strength as the common.

DANTZIC BRANDY. From rye ground with the root of *Calamus aromaticus*, which gives it a mixed flavour of orris and cinnamon.

RUM. From the refuse of the raw sugar-manufactories, by taking equal quantities of the skimmings of the sugar-pans, of lees or returns, as they are commonly called, and of water; and to 100 gallons of this wash are added 10 gallons of molasses; this affords from 10 to 17 gallons of proof rum, and twice as much low wines.—*Double-distilled rum.* Is rum rectified to a strength approaching to spirit of wine.

SUGAR SPIRIT. From the washings, skimmings, and other waste of the sugar-boilers: it is a very pure spirit, and used to mix with brandy.

CANE SPIRIT. From the juice of the sugar-cane.

MOLASSES SPIRIT, *Spiritus ex syrupo*, P. L. 1745. Is obtained from molasses, or treacle, by mixing 2 or 3 gallons of water with each gallon of molasses, and to every 200 gallons of this mixture adding a gallon of yeast; once or twice a day the head as it rises is stirred in, and in three or four days, 2 gallons more of water is added to each gallon of molasses originally used, and the same quantity of yeast as at first: four, five, or six days after this, there is added a third portion of yeast, as before, on which the fermentation proceeds with great violence, and in three or four days the wash is fit for the still: 100 gallons of this wash is computed to yield 22 gallons of spirit, 1 to 10 overproof.

SPIRITUS RECTIFICATUS, P. L. Molasses spirit, sp. grav. 0.835.—*Proof spirit, S. tenuior, P. L.* Molasses spirit, sp. grav. 0.930.—2. Sp. rect. half the quantity ordered, water the same, mix.

ALCOHOL, P. L. *Spiritus vini tartarisatus. Alcohol alcalisatum, grad. 42.* Molasses spirit, sp. grav. 0.835, 1 gallon, add subcarb. of potash, heated to 300 deg. Fahr., 1lb.; set it by for twenty-four hours; pour off the spirit, add 2lb. more of heated subcarbonate, and distil in a water-bath: the sp. grav. ought to be 0.815.—*Alcoh. alcalisatum, gr. 46.* Alcoh. alcal. gr. 42, lb. v, muriate of lime lb. j, mix, and distil to dryness.

VARNISH-MAKERS' SPIRIT, *Extract spirit of wine for varnish.* Obtained from molasses spirit by rectification to the highest possible strength; it has been prepared as high as 0.820, by taking only the first gallon from 20 gallons distilled in a water-bath.

POTATO SPIRIT. From 8 cwt. of steamed and mashed potatoes, $\frac{1}{2}$ a cwt. of malt, hot water added in three portions, in sufficient quantity to make 300 gallons of mash, and, lastly, 2 pints of yeast. As soon as the fermentation is finished, the wash is put into the still.

2. Raw potatoes pulped 8 cwt., water 200 gallons, which is run off in half an hour, and malt $\frac{1}{2}$ cwt. added, with 120 gallons hot water. In three or four hours this wort is drawn off into the working tun, 50 gallons more hot water is added, and on being drawn off another 50 gallons is added, drawn off, and the whole fermented with yeast and distilled.

3. 150 gallons of water is put into a covered working tun of 500 gallons, lined with lead, and is heated by steam to 176 deg. Fahr.; 6 cwt. of potato starch is mixed in another tub, lined with lead, with 12 cwt. of water, and 12 lb. of oil of vitriol, and mixed in three portions with the water in the working tun, the heat being carefully kept up. In about six hours the starch will be changed into sugar, when the acid is to be neutralised with about 20 lb. of whiting; the liquor is then drawn off, fermented with yeast, and distilled.

4. Steamed potatoes reduced to pulp are changed into sugar by oil of vitriol in a similar manner, and then fermented and distilled.

SWEDISH POTATOE SPIRIT, *Danish potato spirit*. Potatoes steamed and pulped are mixed with hot water into a mash; to each ton weight of potatoes is added 1 lb. of potash rendered caustic by quicklime; it is then cooled, and to each 3 tons of potatoes is added half a ton of malt, and the whole fermented and distilled as usual. A large quantity of yeast is obtained in this fermentation. The green taste of potatoe spirit is removed by rectifying the spirit with oxymuriate of lime, or bleaching-powder, about an ounce to each 10 gallons of spirit. 38 cwt. of potatoes, with 200 gallons of malt, yield about 225 gallons of spirit. Beet roots or carrots steamed and mixed with the potatoes improve the flavour.

CHINA ARRACK. From the toddy of *Borassus gomutus*, rice, and millet.

INDIAN ARRACK. From cocoa-nut toddy and rice. The Batavian, *kneip*, is esteemed the best; then the Madras, the Goa, and Columbo are inferior.

KULLO CHARAYUM, *Gungasir*. From cocoa-nut toddy: the best of the pariah arracks drank in India.

COMMON PARIAH ARRACK. From any kind of toddy, or jaggery, rendered more intoxicating by adding hemp leaves, the juice of stramonium, and poppy heads.

PUTTAY CHARAYUM. From any kind of toddy, or jaggery, distilled with several kinds of barks; as *Mimosa ferruginea*, *Acacia Arabica*, etchum puttay, a species of phoenix, and various others.

AFRICAN ARRACK. From the berries of the brandewyn bosch, *Grewia flava*. Very inferior to the Indian.

APPLE WHISKEY, *Cider spirit*. Obtained from cider.—*Skirret spirit*;—*Carrot spirit*. Are obtained in the north of Europe from those roots.

SCOTCH WHISKEY. From barley and oats, carelessly distilled, and suffered to burn to; the smoky flavour being by habit rendered agreeable.

PEACH BRANDY. From that fruit; much drank in some parts of the United States.

KIRSCHENWASSER. From common cherries.

MARASQUINA. From morello cherries.

HOLLANDS GIN, *Jenever brandewyn*, *Spiritus juniperi*. Corn spirit rectified twice over juniper berries.

ENGLISH GIN. Malt spirits 300 gallons, spirit of turpentine 4 pints, bay salt 20 lb.; distil.

MALT BRANDY. Malt spirit, flavoured with sweet spirit of nitre, and coloured with terra Japonica.

SPIRIT FROM FAINTS. In rectifying spirits, and in distilling compound spirits, after the first strong portion has been drawn off, the weaker, and in some cases discoloured, spirit that arises is saved, under the name of *faints*; and when a sufficient quantity has been collected, it is rectified; the spirit thus obtained is principally used to make aniseed-cordial, as the strong flavour of the aniseed will overpower any other flavour the spirit may have acquired.

SPIRIT OF WINE, *Copyng-liquid*, *Alcohol*, P. E. All spirit, from whatever material produced, above 1 to 10 over proof, is thus deemed in the English laws: the Edinburgh College order it, for medical use, to have the specific gravity of .835. It renders paper transparent, and soon evaporating, the paper becomes opaque again.—*Alcohol dibutum*, P. E. Alcohol, P. E. and water, of each equal measures: the sp. grav. is about 0.935.

FERMENTED DOUGHS AND FERMENTS.

The farina of the seeds of the grasses, mixed up into a paste with water, and exposed to a warm atmosphere, enter into fermentation; the paste becomes cellular, and its taste is much improved: but as some part of the mass is apt to become acid before the other is properly fermented, it has been found necessary, to promote the simultaneous fermentation of the whole, to add either a large proportion of a similar dough already in a state of fermentation, or of the frothy head and thick bottoms of liquors in the state of fermentation.

Another kind of fermentation is excited in the manufacture of gingerbread, by the gradual evolution of carbonic acid gas within the mass; and a third, of a spurious nature, by the addition of subcarbonate of ammonia, the expansion of this salt by the heat of the oven rendering the dough cellular, and the bread nearly similar to that which has been regularly fermented.

FERMENTED DOUGH, OR BREAD.

ENGLISH BREAD. Is made by dissolving 4 lb. of salt and half a gallon of yeast in about 36 lb. of warm water, making this into dough with flour; and when this has risen, adding another 36 lb. of warm water and more flour, and in about five hours the remainder of a sack, or 280 lb. of flour, with the necessary quantity of warm water, generally 108 lb., and after some time baking it. This produces, when well baked, 80 quartern loaves, or 347½ lb. of good serviceable bread; or if slack baked, 86 loaves, or 381 lb. 10 oz. of crumbling bread. The London bakers put in ½ a pound of alum, and take out the same weight of salt, that the loaves may part easier. The consumption of bread in London is, on an average, about 13½ oz. per head daily.

PARIS WHITE BREAD. Is made by diluting 80 lb. of dough reserved from the last baking, before any yeast was added, with a sufficient quantity of warm water to make a French sack, or 320 lb. of flour, into a dough much thinner than usual in England. When this has risen, 80 lb. of it is taken out, and covered up for leaven for the next baking, and then a lb. of dry yeast is diluted in water, and the solution added to the dough, which is immediately made into loaves and baked: the loaves being placed some distance apart, that they may be crusty all round. In general, a French sextier of wheat, or 284 lb., is computed to yield 176 lb. of flour, which, with 110 lb. of water, produces 286 of bread.—*French country white bread.* Has no yeast put into it.—*French soup bread.* Has a lb. of salt to each sack, in the place of yeast, to promote its solution in the soup, and is baked in thin loaves, so as to be nearly all crust.—The usual consumption of bread in a French family is estimated at 9 lb. of soft bread, and 7 lb. of soup bread for each person in a week, or nearly 2½ lb. for each daily.

GINGERBREAD. Fine pollard 1 lb., treacle ¾ lb., potash, ½ oz., butter 1 oz., warm water sufficient to make up the dough, 1 oz. of mixed spice, principally ginger, to which is added cinnamon, nutmeg, allspice, Cayenne pepper, and, in the inferior kinds, black pepper. Requires to be kept for several days, sometimes a fortnight, before it is fit for the oven; the rising being produced by the slow action of the acid in the treacle upon the subcarbonate of potash.

2. Flour 4 lb., treacle, each 1 lb., butter 1 oz., subcarbonate of potash 1 oz., or 1½ oz., with the usual spices: is fit for baking in a few hours' time.

3. Flour 2 lb., subc. of magnesia ½ an oz., treacle 1½ lb., butter 2 oz., spices to the palate; tartaric acid ½ oz., water a sufficient quantity. This is ripe for the oven in half an hour.

4. Flour 4½ lb., subc. of magnesia 1½ oz., the usual spices, treacle 2½ lb., butter 4½ oz., water, in which 6 oz. of cream of tartar has been dissolved, a sufficient quantity. This may be baked in less than an hour: the bread has a slightly acid taste.

5. Volatile salt, being used for potash, or a small quantity added to the gingerbread, not yet ripe, enables the bread to be baked immediately: the upper surface of this bread is very dark and glossy.

AMMONIACAL BREAD. Wheat flour 1 peck, or 14 lb., subcarbonate of ammonia 2 oz., more or less, water sufficient to make the dough, which may be baked immediately: used when good yeast cannot be procured, or there is a sudden demand. This bread has small cells nearly all of a size, and a slight yellowish tinge.

FERMENTS.

YEAST, *Barm*, *Fermentum cerevisiæ*, *Flores cerevisiæ*. The frothy head that forms on the surface of fermenting liquors; used to promote the fermentation of other liquors and of dough: when it turns sour in summer time, a little subcarbonate of magnesia will remove the acidity; used also as a poultice to foul ulcers.

ARTIFICIAL YEAST. Boil malt, a quarter of a peck, in 3 pints of water; pour off 2 pints, and put it in a warm place for 30 hours; add 4 pints of a similar decoction, stir it well in, again ferment, and repeat this addition of 4 pints until a sufficient quantity of yeast is obtained: 10 pints will yield yeast sufficient for a brewing of 40 gallons; it is preferable to brewers' yeast, particularly when used for raising dough.

DRY YEAST. Obtained by spreading moist yeast upon canvas cloths spread upon a table or frame.

LEVURE. The yeast and lees of beer put into canvas bags to drain, and some water added to assist in carrying off the bitter flavour of the hops. Exported from Flanders to Paris for the use of the bakers.

ROASTED VEGETABLE SUBSTANCES.

ROASTED COFFEE. The seeds of the coffee shrub roasted by a gentle fire; used to make an infusion, which, being poured off or strained, and sugar added to it, is a grateful drink, with or without milk.

CORSICA COFFEE. From the seeds of knee-holly, *Ruscus aculeatus*.—*Rosetta coffee.* From the seeds of fenugreek, adding a little lemon juice.—*Egyptian coffee.* From chick peas.—*Holly coffee.* From the berries.—*Broom coffee.* From the seeds.—*Gooseberry coffee.* From the seeds washed out of the cake left in making gooseberry wine.—*Currant coffee.* From the seeds washed out of the cake left in making currant wine.

RICE COFFEE. From the husked seeds: this is esteemed as the best substitute in India, where it is sometimes found that these substitutes agree better than the Turkey coffee.

RYE COFFEE, *Dillenius's coffee,* *Hunt's economical breakfast powder.* Rye roasted along with a little butter, and used as coffee. It is a good substitute, and can scarcely be distinguished from it.—*Succory coffee,* *German coffee.* Succory root roasted with a little butter or oil; but this wants the agreeable aroma of the Turkey.

IRIS COFFEE, *Sylvester's coffee.* The seeds of the yellow water flag, *Gladiolus luteus,* or *Iris pseudacorus,* which is frequently found by the sides of pieces of water: this is the best of the European substitutes.

PATENT CACAO. Cacao or chocolate nuts bruised and roasted; is much richer than coffee, affording considerable nourishment.

CACAO. The roasted husks of the cacao bean, or chocolate nut, used to make a poor kind of coffee drink.

PATENT MALT. Malt kept heated to 430 deg. Fahr. until it acquires a dark chocolate colour: used to colour beer; 1lb. with 79 of pale malt gives the colour and flavour of porter.

ROASTED QUASSIA. Sold ground to embitter beer, and give it colour, but the beer soon grows turbid.

BROWN HAIR POWDER. Flour roasted in an iron pan over the fire till it is brown.

OF ANIMAL ORIGIN.

ANIMAL SECRETIONS AND EXCRETIONS.

WHITE OF EGG, *Albumen ovi.* Nutritive, coagulates like blood by heat, and therefore used to clarify turbid liquors, and also as a varnish.

YELK OF EGG, *Vitellus ovi.* Nutritive, coagulable the same as the whites, and used along with them for that purpose, as also to render oily substances miscible with water.

POUDRE CLARIFIANTE. The white and yelk of eggs beat together and dried by a very gentle heat, used to clarify wines,

and exported to the French sugar islands, to clarify the cane juice.

DRIED WHITE OF EGG, *Albumen*. The white of egg alone dried, used to form a test liquor.

CUTTLE FISH INK, *Sepia*. When fresh taken from the cuttle fish, is a black glairy liquid, of a viscid consistence, a peculiar fishy smell, and very little taste; is preserved for use by being spread round saucers, so as to dry before putrefaction commences, or by evaporation on plates by a very gentle heat, or by being inclosed in an exhausted receiver with oil of vitriol: used for writing ink, and for a paint, much superior in ease of working to Indian ink, which latter dries so quickly, that it is difficult to colour a large pale shadow with it, and when once dry, some part always adheres to the paper, and cannot be removed; whereas cuttlefish ink may be washed almost clear off.

MELAINA. Mix cuttlefish ink with very dilute nitric acid, and keep it warm until it becomes yellowish, then wash the powder well at first with water slightly alkalised with subcarb. of potash, and afterwards with plain cold water. Melaina is tasteless, black, powdery, insoluble in cold water, but soluble in hot water; used as a pigment, superior to Indian ink.

HUMAN URINE, *Urina hominis, P. Sicil.* Aperient; used in jaundice, \mathfrak{z} j to ij, omni mane.

DRIED GOATS' BLOOD, *Sanguis hirci siccatus*. Sudorific, anti-pleuritic.—*Hogs' blood.* Eaten with oatmeal.—*Sheep's blood*;—*Ox blood.* Also eaten, and used instead of eggs to clarify liquids.—*Dried blood.* Neat cattle or sheep's blood, dried by a gentle heat, regulated by water baths placed one within another, so as not to be coagulated: exported for clarifying sugar-cane juice.

UREA. This substance in its purest form is exhibited in the form of elongated, brilliant pearly scales; it is colourless, transparent, of a cool and sharp taste, and has an odour similar to that of urine. According to M. Thenard, the following is the best mode of obtaining it: urine evaporated to the consistence of a syrup, is to be treated with its own volume of nitric acid at 24 deg.; the mixture is to be shaken and immersed in an ice-bath to solidify the crystals of supernitrate of urea; these are washed with water at 0, drained and pressed between sheets of blotting paper. When they are thus separated from foreign matters, they are to be dissolved in water, to which subcarbonate of potash is added, whereby the nitric acid is taken up, and the urea set at liberty. This new liquor is evaporated at a gentle heat, nearly to dryness; the residue is treated with pure alcohol, which only dissolves the urea, the solution is concentrated, and the urea

crystallises. This is said to act as a diuretic. It has been given internally in solution in sugared water, in the dose of a gros.

Cow's URINE, *Urina vacca.* Used as a deobstruent, aperient, and purge; half a pint drank warm from the cow.—*All-flower-water.* An infusion of recent cow's dung in cold water, in the dose of half a pint, is also used as a deobstruent and tonic aperient.

Ox GALL, *Fel tauri, Fel bovis.* Cosmetic, detergent, used in earach, also as a collyrium, and gtt. xx to xxx in wine as an emmenagogue, and to facilitate labour; used with oil to take off oil paint, and to wash greasy cloth.—*Prepared ox gall, Fel taurinum inspissatum.* The fresh gall is left for a night to settle, the clear fluid poured off, and evaporated in a water-bath; used to destroy the greasiness of some water colours, and to wash over tracing paper, that it may be written upon with ink.

WHITE BEAR GALL, *Fel ursi.* Antiepileptic.—*Hare's gall, Fel leporis*;—*Gall of the silurus.* Used as a collyrium, in cataract. *Gall of eels, Fel anguillarum.* Used to facilitate labour.

ASSES' MILK;—*Goats' milk*;—*Ewes' milk*;—*Mares' milk*;—*Woman's milk, Lac mulieris.* Principally composed of sugar of milk dissolved in water; highly nutritive, laxative; popular remedies in atrophy and consumption. Mare's milk expels worms, especially the tænia.

Cow's MILK, *Lac vaccinum.* Nutritive, the fattest of those usually employed; turns sour and curdles, but does not putrefy; boiled with sugar will keep some time; a little calcined magnesia will also prevent its turning sour, even in hot summers. Shows $4\frac{1}{2}$ to 5 deg. Baume, but, if mixed with water, not more than 4 deg. at most.—*Skimmed milk.* Sits easy on the stomach; used as a varnish, and vehicle for painting in distemper: shows 5 deg. or more, Baume.

RENNET WHEY, *Serum lactis.* Milk 2 pints, rennet 3ss, infused in a little hot water, mixed and kept in a gentle heat for some hours, then strained.

BUTTER MILK, *Lac ebutyratum.* By straining churned cream, the butter being left on the strainer, and the butter milk passing; allays the irritability sometimes produced by tea.

FRANGIPANE. Skimmed milk, evaporated to dryness by a gentle heat; used to form artificial milk.

SUGAR OF MILK, *Saccharum lactis.* Obtained in a crystalline form from whey clarified with white of eggs and evaporated: it is not so sweet as the vegetable sugars; used to make artificial whey, as a refreshing and laxative drink, to reduce cane sugar: not soluble in alcohol of 45 deg. Baume.

TYPE. Made by adding a little butter milk to warm fresh milk, and letting it stand all night; much used in India, being eaten with rice; it is slightly acid and laxative; it is also churned for butter, either entire, but more commonly only the top or richest part.

SCOTCH SOUR CREAM. Put skimmed milk over night in a wooden tub with a spigot at bottom, and put this tub into another filled with hot water; in the morning take out the small tub and draw off the thin part of the milk, *wigg*, until the thick sour cream begins to come. This process requires practice as to the heat of the water; when it succeeds, skimmed milk yields nearly one half of this cream, which is eaten with sugar as a delicacy; it is only distinguishable from cream by its taste, and sells for double the price of fresh milk.—*Buffalo milk.* Thinner than that of the cow.

HONEY, *Mel Anglicum.* Collected by bees, and deposited in the cells of their nests as food in store for winter; being chiefly collected from furze and broom, it is more waxy than the foreign honey from the south of Europe.—*Narbonne honey, Mel Narbonense.* Chiefly from rosemary and other labiate flowers.—*Italian brown honey;*—*Minorca honey, Mel Minorcense;*—*East country honey.* From pines, birch, &c., only fit for making mead, ointments, and oxymels, on account of its strong taste and bad colour; when heated, this last sort passes almost entirely into scum.

Honey is nutritive, laxative, but apt to gripe; it covers the taste of salts, &c., better than sugar; used externally or in gargles, detergent. *Official preparation.*—*Mel despumatum, L. D.*

Poisonous honey. Found near Trebisond in Asia; also in South America; produces delirium, and sometimes death.

COROMANDEL HONEY, *Georgian honey, Stone honey.* As hard as sugar-candy, the shape of the cells, brittle, not viscid, originally white, but becomes yellow by age; pleasant tasted.

CLARIFIED HONEY, *Mel despumatum.* The best kind of honey is clarified by melting it in a water-bath, taking off the scum; the middling kind by dissolving it in water, adding the white of an egg to each pint of the solution, boiling it down to its original consistence, and scumming it; the inferior kind requires solution in water, boiling the solution with 1lb. of bone black to each 25lb. of honey, adding, when an excess of acid is apprehended, a small quantity of chalk or oyster-shell powder, straining and evaporating: it has not the agreeable smell of crude honey, but does not ferment so soon, nor is it so apt to gripe. *Official Preparations.*—*Mel boracis, L. D. E.* *Mel rosa, E. L.* *Oxymel simplex, L. E.* *Oxymel colchici, D.* *Oxymel cupri subacetat, D.* *Oxymel scillæ, D. L.* *Conserva ruta, D. L.*

HONEY DEW, *Ros melleus*. Found upon the upper side of leaves of trees in hot weather: dropped from the abdominal processes of the aphides, or plant lice, on the under side of the leaves over them; melts and evaporates by the heat of the sun.

LOURISTAN MANNA, *Guz*. A honey dew deposited upon leaves of trees in Persia and Armenia by the chermes mannifera, from its feathery abdominal processes: very white, resembling snow.

EDIBLE BIRDS' NESTS, *Nidi esculenti*. The nest of a species of swallows inhabiting the Indian Archipelago; these nests are formed of a mucous slime secreted in the stomachs of these birds, and flung up for that purpose: they are added to soup to render it thicker; the feathers sticking to them are separated by straining.

COW DUNG, *Fimus vaccæ*. Used as a cataplasm in erysipelalous swellings, mixed with some unctuous matter to prevent its growing hard, and in the gout; also used very largely in calico printing as a cheap mucilage.

SHEEP'S DUNG. Used in dyeing, for the purpose of preparing cotton and linen to receive certain colours, particularly the red of madder and crosswort.—*Poudrette*. Human excrements, dried to a powder and sold in sacks, for manure.

MORBID CONCRETIONS IN ANIMALS.

BORNEO BEZOAR, *Monkey bezoar*. From the stomach of an unknown species of monkey, obtained by giving an emetic; bright green, with a fine lustre: in the highest esteem as a cordial.

PERSIAN BEZOAR, *Oriental bezoar*, *Lapis bezoar Orientalis*. From the stomach of the capra gazella; dark green, or olive; smooth, marking a green line upon paper; sp. grav. 2.233. From Persia.

COMMON ORIENTAL BEZOAR, *Snake stone*. From the stomach of the Capra ægragus; applied to places bitten by snakes.—*Occidental bezoar*, *Lapis bezoar Occidentalis*. From the antelope oryx; surface rough; grey, brittle, spongy; specific gravity 1.666; used instead of the Oriental for cheapness' sake.—*Hog bezoar*. From the stomach of the wild hog.

PIEDRA DEL PORCO, *Lapis Malaccensis*, *L. hystriacus*, *L. porcinus*, *Bez. hystriacum*. From the gall bladder of the porcupine; yellowish green, smooth, bitter.

CAMEL BEZOAR, *Wootay korushanum*. From the gall bladder; used as a yellow pigment.—*Buffalo bezoar*. From the gall bladder.—*Ox bezoar*, *Indian yellow*. From the gall bladder of bos zebu; brought from Nepal; used as pigments.

GALL STONE, *Calculus cysticus bovinus*. From the gall bladder of neat cattle in winter, when fed upon dry food; used, gr. j, in indigestions; also as a yellow pigment.

GELATINOUS EXTRACTS.

CAKE GLUE, *Colle forte, Gluten commune*. Prepared from the skins of animals, by soaking them for two or three weeks in lime water, boiling them with water, adding a little alum, down to a thick jelly, which is then poured out into shallow boxes, and, when cold, cut into squares, and dried in the air upon nets; used as a cement.

FLEMISH GLUE, *Dutch glue*. The skins are rinsed in several waters, and left to soak for some time, that they may require less boiling to be dissolved; cakes very thin, transparent; used by cabinet-makers in fine work.

FRENCH GLUE. Simmered for a long time with a small fire, until the skins are dissolved; then made to boil, and alum gr. ij, to the pint added, to clear it for moulding; transparent and very brittle.

HATMAKERS' GLUE. From the tendons of the legs of neat cattle and horses; brown, opaque, soft; grows moist in damp weather, but it does not render the felt brittle.

BONE GLUE, *Gelatine sec*. From *gelatine brut*, pp. 136 and 138, by boiling it in water until dissolved, then moulding the decoction into cakes to suit the market.

DOUBLE SIZE, *Colle à baquet, Gelatine humide*. Is made from skins, mostly rabbit skins; also old gloves, parchment, and *gelatine brut*, in the same manner as glue, but is not boiled down so low, only so far that it is a tremulous jelly when cold. *Single size*. Is not boiled down so low.

FISH GLUE, *Colle de poisson*. Is made in like manner from various membranous and solid parts of cetaceous animals.

OF MINERAL ORIGIN.

COLOGNE EARTH, *Cullen's earth, UMBER, Terra Coloniensis*. Black, or blackish brown, mixed with brownish red, fine grained, earthy, smooth to the touch, becomes polished by scraping, very light, burns with a disagreeable smell; found near Cologne; used in painting, both in water-colours and in oil; used also to render snuff fine and smooth; very different from the brown ochre umber.

IV. COMPOUND COMBUSTIBLES,

OF AN OILY NATURE.

OF VEGETABLE ORIGIN.

MUCILAGINOUS OILS.

THESE oils, unless it be otherwise directed, are obtained from the kernels of the plants by pressing them. As the retailers mix several of these oils together, the best method of obtaining them is from the oil-crushers, or brokers, as samples.

OIL OF SWEET ALMONDS, *Oleum amygdalarum*, *O. amygdalinum*, *O. amygdalæ*, *O. amygdalæ communis*. From bitter almonds, or from old Jordan almonds, by heat; soon grows rank. 1 cwt. of bitter almonds unblanched produces 46lb. of oil; the cake pays for pressing.—*Cold-drawn almond oil*. From fresh Barbary almonds; very fine, and keeps longer fresh than the common. The old druggists kept an almond-press in the shop, and pressed the oil as they wanted it, by the lb. or $\frac{1}{2}$ lb. of almonds at the time: the lb. yielded about 4 oz. This is demulcent and emollient, and has been found serviceable in catarrh and coughs, united with water by means of mucilage and sugar, or a few drops of liquor ammoniæ.—*Dose*. From half an oz. to an oz.

OIL OF STAR-ANISE SEEDS, *by expression*, *Ol. anisi stellati*. Is of an agreeable fragraney.

GROUND-PEA OIL. From *Arachis hypogæa*; eatable, but strong-tasted; burns well, makes good soap.

OIL OF BEN, *Ol. de ben*. From *Guilandia moringa*; scentless, colourless, keeps long without growing rank.

CAMELLIA OIL. From *Camellia oleosa*; used for the table.

JAVA ALMOND OIL. From *Canarium commune*; eaten while fresh, burned when stale.

INDIAN ALMOND OIL. From *Terminalia carappa*; pleasant tasted; used with salads.

CARAPPA OIL. From the nuts of *Carappa Guaianensis*,

ARGEMONE OIL. From *Argemone Mexicana*; used as a liniment for the headach, also purgative, and burned in lamps.

BARBADOES COTTON-SEED OIL. From *Gossypium Barbadosense*; used to clear the skin of spots and freckles.

OIL OF WHEAT. By pressing the grain between heated plates.

CUCUMBER-SEED OIL. Used for the lamp.

STINKING TREFOIL OIL. From *Psoralea bituminosa*; used for the lamp.

OIL OF CACAO, *Oleum cacao*. From chocolate nuts, by expression; yield about $\frac{1}{8}$ th their weight of oil; used for the table.

PINHOEN OIL, *French physic-nut oil*. From *Jatropha multifida*; purgative and emetic.

JATROPHA GLAUCA OIL. Used externally in rheumatism and palsy.

GREY NICKAR OIL. From *Guilandina bonducella*; used in convulsions and palsy.

MASTICH-BERRY OIL. From the berries of *Pistachia lentiscus*; used in cookery.

HEMP OIL, *Ol. cannabis*. From hemp-seed; used for frying, by the painters as a drying oil, for soft soap and the lamp.

NETTLE-TREE OIL. From the seeds of *Celtis australis*: excellent for the lamp.

CORNEL OIL. From the seeds of *Cornus mascula* and *C. sanguinea*: answers for lamps, but not for the table.

PHYSIC-NUT OIL. *Ol. cicutum, Ol. jatrophae curcatis*. Used as castor oil for a purge, also externally in chronic rheumatism, and for the lamp.

NUT OIL, *Ol. nucum coryli*. From the hazel nut, very fine; substituted for oil of ben; used by painters as a vehicle for their colours.

BEECH MAST OIL, *Ol. fagi*. Very clear, keeps well; used with salads.

BUCK-WHEAT OIL. From the seeds of buck-wheat.

HEMP-NETTLE OIL. From the seeds of *Galeopsis tetrahit*: yielded very plentifully.

GINGKO OIL. From the seeds of *Gingko biloba*: used for the table.

SUN-FLOWER SEED OIL. From *Helianthus annuus*; used for the lamp.

WALNUT OIL, *Ol. nucum juglandis*. Makes good plasters; will not keep; used by painters, is very drying: 90lb. ay, of kernel yield 20 to 24 quart bottles of oil.

COLD-DRAWN WALNUT OIL. Eaten with salads.

EXPRESSED OIL OF BAYS, *Ol. bayrinum*. From bay-berries; very fluid, insipid.

LINSEED OIL, *Ol. lini*. Viscous, bitter; makes but a soft soap; used in lamps, but chiefly in painting, is very drying; also to make varnishes and printers' ink. *Official Preparation.*—Linimentum aquæ calcis, *E*.

COLD-DRAWN LINSEED OIL, *O. lini sine igne, O. lini usitatissimi*. Used in medicine, laxative.

OIL OF MACE, *Ol. macis in ollis, O. moschatae, O. nucistae, O. myristicæ nuclei expressum*. From nutmegs by the press; buttery, smell and colour of mace, grows paler and harder by age: 2lb. yielded 6 oz. From Banda.

OIL OF BARABEE. From a wild nutmeg in Madagascar; stomachic.

TRUE OIL OF MACE, *by expression, Ol. macis expressum verum*. Red, remains always liquid or soft, has a strong smell of mace, subacid taste, imported in jars or bottles, the lower part being rather thicker than the top: 1lb. and a half of mace yielded in Europe 3jss. of oil.

MADI OIL. From the seeds of *Madia sativa*; very fine; used for the table.

OIL OF STONE-PINE KERNELS, *Ol. nucis pini*. From the *Pinus pinea*; grows rank very soon; 16lb. of kernels yield 5lb. of oil.

CEMBRO NUT OIL. From *Pinus cembra*; used for the table.

PISTACHIA NUT OIL. Sweeter than almond oil; forms a green emulsion.—*Cochin China pistachia oil.* From *P. oleosa*; yellow; used for the table.

OIL OF RHUS JAVANICUM. From the berries by boiling; used to make Chinese varnish.

BASTARD SAFFRON OIL. From *Cnicus tinctorius*; used in rheumatism, palsy, and foul ulcers.

POON NUT OIL. From *Calophyllum inophyllum*, well scented; used in rheumatism, and for lamps.

KANARI NUT OIL. A delicious oil for the table, also used in medicine.

MALACCA BEAN OIL. Obtained by boiling, very acrid, raising blisters, but when diluted used in rheumatism and palsy.

CASHEW NUT OIL. Obtained by boiling, very acrid.

BEST SALAD OIL, *Oleum maturum, O. completum*. From the flesh of Italian olives, fine yellow, perfectly inodorous.—*Salad oil, Sweet oil.* From French olives, grass green, inodorous; imported

from Marseilles: 12 bottles in a basket.—Both these olive oils are used with salads, and for frying, also to soften the hair, and to anoint the body all over as a preservative from the plague. They become concrete when poured upon a solution of 6 drachms of quicksilver in 7 drachms of nitric acid at 38 deg. Baume. They are reduced by poppy oil; and that oil, as also argan oil, cold-drawn walnut oil, and beech mast oil, are sold for them.

OLIVE OIL, *Oleum olivarum*, *Olivæ oleum*, *O. fixum fructus olivæ Europeæ*. Imported from Sicily, Naples, Candia; but all are rank, being made from olives which have been left in heaps to sweat. Its quality is estimated by the quantity of foot or lees that separates on standing, the less the better; used for plaisters and ointments, the lamp, as it yields scarcely any soot, and largely in the woollen manufacture.

OLEUM OMPHACINUM. From the cake left on pressing olives, pouring hot water on it, and again submitting it to the press; or from unripe olives; thick, deposits much sediment.—*Droppings of sweet oil*, *Fæx olei*, *Amurca*. The foot deposited by olive oil; used instead of the preceding for oiling iron-work.

POPPY OIL, *Huile d'oeillette*, *Oliete*, *Oleum papaveris*. Used as a salad oil; is not narcotic, as has been supposed; has a slight odour; keeps well, is drying, does not burn well, and smokes very much, makes a soft soap, but very good plaisters; works with colours more freely than nut oil, does not coagulate with acid nitrate of quicksilver.

APRICOCK OIL, *Huile de marmotte*, *Oleum chrysolinum*. Agreeable to the taste, used for that of almonds.

ARGAN OIL. From the seeds of *Rhamnus siculus*: sold for olive oil.

COLD-DRAWN CASTOR OIL, *Oleum de kerva*, *O. kervinum*, *O. palmæ liquidum*, *O. ricini*. From the *R. communis*, not less than six months old, blanched with cold water, and pressed; 10lb. yield 3lb. of oil.

FOREIGN CASTOR OIL. From the seeds ground with water in a mortar; two bushels and a half yield 4 gall. of oil; also obtained by bruising the seeds, tying the mass in a bag, and boiling in water; 10lb. yield 1lb. of oil.—Purgative, in doses of ʒss. to ʒjss., floated on some distilled water or on wine; or, if it does not usually stay well on the stomach, on some tincture of senna, or made into an emulsion with yelk of egg, and a little distilled water, with gtt. xx. of lavender drops, and a teaspoonful of simple syrup: it may also be used in clysters: is particularly useful where a stimulant would be hurtful, as it operates quickly without disturbing the system; externally in swelling pains. Contrary to most medicines, on frequent repetition a less dose is

sufficient; used to reduce essential oils, and balsam of capivi, as it dissolves in alcohol.—*Oil of the embryos of ricinus communis.* Very mild, sweet, and not purgative.

BAPENNAH LAMP OIL. From *Ricinus viridis*, the seeds being roasted and boiled; dark coloured, thick.

CROTON OIL, Tiglii oleum. From Molucca grains; extremely cathartic; when good, a drop is a sufficient dose. The acridness of some parcels of castor oil seems owing to an admixture of this oil, rather than that of the physic nut.

OIL OF TRICHILIA SPINOSA. From the berries, warm, pleasant smell, used in rheumatism.

GARDEN SPURGE OIL, Oleum lathyris. From *Euphorbia lathyris*; cathartic, gutt. iv to viij; 14 oz. seeds yield 6 oz. oil.

BROWN RAPE OIL, Huile de colsa, Oleum rapæ. From rape seed, *Brassica campestris oleifera*, dries slowly, makes a softish soap, is fit for ointments, but does not make good plaisters; smokes much when burned.

PALE RAPE OIL, Refined rape oil. From brown rape oil, by mixing 2lb. of oil of vitriol with each cwt. of the oil, and twice as much water, beating the whole well together, letting it stand for eight or ten days in a warm place, pouring off the oil, and filtering it through flannel, or felt; used for the lamp.

TURNIP SEED OIL, Huile de navette de Dauphine. From *Brassica rapa oleifera*; used for the lamp.

HUILE DE NAVETTE D'HIVER. From *Brassica napus oleifera*.

RADISH SEED OIL, O. raphani. From radish seed, used for salads.

GINGELLY OIL, Benne oil, Sweet oil, Oleum sesami, P. U. S. From the seeds of the *Sesamum orientale*; used for food, and in painting.

HUILE DE CAMELINE, Oehl, Oleum sesami. From the seeds of gold of pleasure, *Myagrum sativum*; used for burning in lamps, and in ointments.

MUSTARD OIL, Oleum sinapis. From the hulls of black mustard seed, after the flour has been sifted from them; smells like rank linseed oil mixed with horse radish: used in rheumatism.

SWEET MUSTARD OIL. From *Sinapis dichotoma*, *S. ramosa*, *S. glauca*, *S. Sinensis*, and *S. tori*; used for the table.

KUTEERBA OIL. From the seeds of *Sterculia platanifolia*.

TEA-SEED OIL. From the seeds of *Thea oleosa*, very limpid.

HUTSELLA OIL. From the seeds of *Verbesina sativa*, very fine; used in cookery, and for the lamp.

OIL OF VERNICIA MONTANA. From the kernels, yellow, used as a varnish.

OIL OF BRYONIA CALLOSA. Used for the lamp.

MARGOSA OIL. From the fruit of *Melia azederachta*, bitter, vermifuge.

HUILE D'OOLI. From ooli, a plant that grows in the Antilles; sold for oil of ben.

VEGETABLE BUTTERS.

BOILED OIL OF BAYS, *Oleum laurinum verum, O. lauri nobilis.* From bayberries, by boiling, thick like butter, green: from Italy.

BUTTER OF LAURUS GLAUCA. Used for candles, obtained by expression.

OIL OF AVOCADO PEAR. Stomachic.

MYRTLE OIL, *Myrteum.* From myrtle berries; concrete, odorous, astringent.

JAVA TALLOW? *Mava butter.* Expressed from *Bassia butyracea*, white, used for making soap.

BUTTER OF BASSIA LONGIFOLIA. Greenish yellow.

MACKAW FAT. From the nuts of *Cocos fusiformis*.

TALLOW OF LITSEA SEBIFERA. Used for candles.

BUTTER OF THE CHORIE TREE. Used as butter in India.

NUTMEG BUTTER. Floats on the surface of the water in the still when nutmegs are distilled for their oil, insipid.

PALM OIL, *Oleum palmæ, O. palmæ sebaceum, O. cocois butyraceæ.* Yellow, butyraceous, sweet scented, does not change colour when mixed with an alkali; used for food, and in emulsions as a demulcent; externally it is peculiarly emollient, and well adapted for ointments.

OIL OF MACE IN CAKES, *Banda soap, Oleum macis in massis.* Is cut out of the jars of oil of mace when it is discoloured and grown solid by age.

BANKARA BUTTER. From a not well-known nut.

BUTTER OF CACAO, *Butyrum cacao.* From the kernels of the chocolate nut by boiling; keeps well; used for food: 4lb. of nuts yield about 1lb.

AMERICAN GREEN WAX, *Cera viridis.* Obtained from *Myrica cerifera*, and other species of myrica; by boiling the berries in water, they yield one-fourth of their weight of wax; used to make sweet-scented candles, and also for the darker ointments and plasters, instead of bees' wax: from the United States.

CHINESE VEGETABLE TALLOW. From the seeds of *Croton sebiferum*.

BENCOOLEN NUT OIL. From *Croton Moluccanum*.

GUY AMADOU. From the fruits of the *Virola sebifera* or *Myristica sebifera*. The four preceding are all used to make odoriferous candles.

PENOE TALLOW. From the fruit of *Vateria Indica* by boiling, white, sometimes yellow, greasy with a waxiness, burns with an agreeable odour.

SASSAFRAS NUT OIL, *Oleum fabarum pichurim*, P. Belg. White, butter-like, smelling like sassafras, becomes yellowish and tallowy by age: 1lb. yields about one oz. and a half of oil.

COCOA NUT OIL, *O. cocois nuciferae*. By the press, white, used for lamps, and to make gas for lights; makes a stinking soap.

FINE COCOA NUT OIL. By boiling, used in cookery.

CABBAGE PALM OIL. From *Areca oleracea*.

ESSENTIAL OILS.

These oils, unless it be otherwise directed, are obtained by distilling the articles with an equal weight of water to prevent them from adhering to the still, and the oil and water acquiring a burnt taste; some, as those of the peels of fresh fruits, are obtained by rasping them, and pressing the raspings; a few by distilling the articles with twice their weight of water, adding 1lb. of salt to each gallon of water, using a quick fire, and when half the water has come over, pouring it back again into the still, and thus cohobating it on the article. When rectified for the purpose of rendering them finer, they are distilled without water in a retort, and one half the oil is drawn over; that left in the retort is mixed with raw oil intended for sale in that state; they are all stimulant, in doses of gtt. ij to x upon sugar, but are mostly made into cordial waters, by distilling with spirit of wine, or water.

DISTILLED OIL OF WORMWOOD, *Oleum essentielle absinthii*. From the herb; stomachic: 25lb. of green wormwood yielded from six to ten drachms of oil; 4lb. of dry yielded an ounce, and 18lb. only ʒjss.

OIL OF ACORUS, *Oleum acori*, *O. calami aromatici*. 50lb. yielded 2 oz., 1lb. yielded ʒij; sweet scented.

GINGER GRASS OIL. From *Andropogon nardus*, pleasant tasted.

OIL OF AMYRIS PROTUM. Aromatic.

ESSENTIAL OIL OF BITTER ALMONDS, *O. amygdalarum ama-*

rarum æthereum. From ground almond cake, by distillation, with twice as much water and half as much salt, after having been left to soak for some days, and when half the water is come over, pouring it back into the still : 25lb. of cake yields 2 oz. ; contains prussic acid ; used to communicate flavour to confectionary, and as an ingredient in mixtures in phthisis and spasmodic diseases, instead of prussic acid ; when rectified, its strength is prodigiously increased.

OIL OF ANISE SEEDS, *Oleum anisi*, *O. volatile pimpinellæ anisi*. From the seeds : congeals at 62 deg. Fahr. ; poisonous to pigeons, so that, as Vogel has observed, if they are forced to breathe air impregnated with it by rubbing it on their bill, or head, it is fatal ; 1lb. yields 3ij.—*Oil of star anise seeds, Oleum anisi stellati.* From the capsules ; liquid, very fragrant, has the scent of anise. This is carminative and used in flatulent cholera. Dose mv. to mxv. rubbed up with sugar and camphor mixture.

OIL OF DILL SEED, *Oleum anethi.* Carminative.

NEROLI, *Oleum florum aurantium.* From the flowers of the orange tree ; 6 cwt. of flowers yield only one oz. of oil.

OLEUM FLORUM CITRI. From the flowers of the citron tree ; amber-coloured, slightly fragrant : 60lb. yield 1 oz.

ESSENCE OF BERGAMOTTE, *Oleum limonis Bergamottæ.* From the peels of the Bergamotte orange ; by pressure, very fragrant : from Italy.

HUILE D'ORANGE. From orange peel by pressure ; very fragrant :—*Huile de petit grain.* From small unripe oranges, by distillation, gold colour.

OLEUM STILLATITUM RADICIS CARLINE. From the root of the carline thistle ; fragrant, sinks in water.

KYAPUTTY OIL, *Cajeput oil, Oleum cajuputi, O. volatile melaleucæ leucadendri.* From the leaves ; cooler than that of peppermint, but smells of turpentine ; dissolves gum elastic, stimulant, antispasmodic, gtt. iij to v, on sugar, and externally in rheumatism : from the East Indies, generally in large copper flasks.

OIL OF CARUI, *Oleum carui.* From the seeds, carminative ; 2lb. yielded more than 1 oz., and 1 cwt. only 83 oz.

DISTILLED OIL OF CACAO. From the chocolate nut ; thick, reddish, rather buttery.

OIL OF CLOVES, *Essence d'aillettes, Oleum caryophyllorum aromaticorum, O. caryophylli.* From cloves, soaked and distilled with salt water, the distilled water being returned two or three times into the still ; very heavy, acrimonious ; supposed to contain some part of the rosin of the clove ; stimulant, added to purgative pills to prevent griping ; externally applied to aching teeth : 1lb. of cloves yields from 3 jss to 3 ijss : 1 cwt. yields 18lb. ; 7lb. and

a half yield 1lb. of oil.—*Expressed oil of cloves.* From fresh mother cloves, antophylli.

OIL OF WORMWEED, *Oleum chenopodii*, P. U. S. From *C. anthelminticum*.

OIL OF VIRGINIAN PENNYROYAL, *O. cunilæ*, P. U. S.

OIL OF CASSIA, *O. cassiæ*. From cassia buds; stimulant, stomachic; 30lb. yield 4 oz.

DISTILLED OIL OF CAMOMILE FLOWERS, *O. essentielle chamæmeli florum*, *O. anthemidis cæruleum*. From the flowers, stomachic dose mv. to mx.; 1lb. yields a drachm, 82lb. yield ʒxiiij, and at another time ʒxviii; it is of a fine blue, even if distilled in glass vessels.

DISTILLED OIL OF CAMOMILE, *O. anthemidis viride*. From the herb, green, stomachic.

OIL OF CINNAMON, *Oleum cinnamomi*. From the fresh bark, distilled with sea water; 11lb. yield 1 oz. of oil; from Ceylon.

ENGLISH OIL OF CINNAMON. From the bark of inferior cinnamon, imported under the name of cassia, distilled with salt water, and cohobated: 1lb. yields from ʒj to ʒjss.

ESSENCE OF CEDRAT, *Oglio del cedro*, *Oleum cedri*, *O. citri finum*. From the yellow part of citron peel; colourless, very thin and fragrant.—2. The second oil obtained by the distillation of the yellow part of citron peel; greenish; 100 citrons yield 1 oz. of the white essence, and half an oz. of the greenish.—3. From the yellow part of citron peel by expression.

ESSENCE OF CITRONS, *Oleum citri*. From the lees left in the casks of citron juice; clear, fragrant, greenish: 50lb. of lees yield, by distillation, ʒlb. of essence.—2. From whole citron peels by expression; very fragrant, but does not keep so well as the distilled oil.—3. From the cake left on pressing citron peels, by distillation with water; thick.

RECTIFIED OIL OF CITRONS. The pressed oil of the whole peels, distilled until 3 oz. out of 5 are come over, white, very fragrant.

OIL OF CUMMIN SEED, *O. cymini*.

OIL OF CLARY FLOWERS. 130lb. fresh yield 3 oz. and a half; used in perfumery for soap?

OIL OF PARTRIDGE BERRY, *Oleum gualthæria*, P. U. S.

OLEUM FENICULI. From sweet fennel seeds; carminative: 1 bushel yielded 18 oz.

OIL OF HOPS. Collected during the boiling of hops in beer; used to increase the flavour of other hops by rubbing it amongst them.

OIL OF HYSSOP LEAVES, *Oleum hyssopi*. 2 cwt. yielded 6 oz., 30lb. yielded 3ix.

ESSENCE DES VIOLETTES, *Oleum iridis*. From the root of Florentine orris; smells like violets.

ESSENCE OF JASMINE, *Oleum jasmini*. From the flowers of *J. grandiflorum*, not picked from their cups; yielded in very small quantity, highly fragrant: brought from the East Indies.

OLEUM JUNIPERI, *O. baccarum juniperi communis*. From the berries; diuretic: 1lb. yielded 3ij, and 48lb. yielded 6 oz.

ESSENCE OF LAVENDER, *English oil of lavender, O. lavandulæ, O. lavandulæ spicæ*. From the flowers of narrow-leaved lavender, very fine scented, unites with strong acetic acid, sp. grav. 0·898; at 68 deg. Fahr. dissolves copal; 24 bundles produced 144 oz.

FOREIGN OIL OF LAVENDER, *O. lavandulæ latifoliæ, O. lav. exoticum*. From the flowers and seeds of broad-leaved lavender; sweet scented: Italy and south of France.

TRUE OIL OF SPIKE, *Huile d'aspic, O. spicæ verum, O. lav. stæchadis, O. lav. spicæ*. From the flowers and seeds of French lavender, *Lavandula stæchas*, with a quick fire; inferior in scent to those of lavender: from Languedoc and Provence.

RECTIFIED OIL OF LAVENDER. Drawing off 3 oz. in 5; sp. grav. 0·877; at 68 Fahr. used for choice perfumery; the residue contains camphire.

TRUE RIGA BALSAM, *Baume de Carpathes, Balsamum Libani*. From the shoots of *Pinus cembra*, previously bruised and macerated for a month in water; pellucid, very liquid, whitish, smell and taste of oil of juniper, vulnerary, diuretic.

ESSENCE OF LEMONS, *Essentia limonum, O. limonis, Citri medicæ oleum volatile*. From the fresh peels of lemons; limpid, watery, fragrant; used in perfumery: from Italy.

DISTILLED OIL OF MACE, *Oleum macis stillatitium*. From that spice; liquid, pale citron, smelling of the mace.

OIL OF SWEET MARJORAM, *Oleum marjorana*. 85lb. fresh yield 3 oz. 3vj.

OIL OF BALM, *Oleum melissæ*. 96lb. yield 3j.

OIL OF PEPPERMINT, *Oleum menthæ piperitæ, O. herbæ menthæ piperit. floresentis*. From the dried plant; 4lb. of the fresh herb yielded 3ij; used to flavour spirit.

RECTIFIED OIL OF PEPPERMINT. Used for peppermint lozenges and drops; very warm.

OIL OF MINT, *Oleum menthæ viridis, O. menthæ vulgaris, O. menthæ sativæ*. From the dried plant; 33 doz. yielded 8 oz. and

a half; 6lb. of fresh leaves yielded 3ijss; and 4lb. dried yielded 1 oz. and a half. This is stimulant and carminative, and has been recommended in flatulence and anorexia. The dose is from 2 to 4 minims on a lump of sugar. *Officinal preparation*.—*Infus. menthæ comp., D.*

OIL OF MILFOIL FLOWERS, *Oleum millefolii*. 18 baskets yield 4 oz. 3iij; 14lb. dry yield 3iij.

OLEUM MONARDE, P. U. S. From *M. punctata*.

VOLATILE OIL OF BLACK MUSTARD SEED. Mix 10 kilogrammes of the best black mustard powder with from 50 to 55 kilogrammes of water, and place them in an alembic, which is connected with a double-balled receiver: then distil. The volatile oil condenses at the bottom of the receiver in the form of brownish flakes. When six litres of water have passed over, change the receiver, or after that no volatile oil is deposited. Pour off the superabundant distilled water, and rarefy the oil by a naked fire in a small alembic. Thus it is obtained almost colourless. When diluted with its own weight of alcohol, at 40°, it is an excellent rubefacient, and acts almost instantaneously. It may be substituted for the ammoniacal ointment.

ESSENCE OF MYRTLE, *Oleum essentielle myrti*. From the flowers and leaves; fragrant.

ESSENCE OF JONQUIL, *Oleum narcissi*. Used in perfumery.

OIL OF NUTMEG, *Oleum nucis moschatae stillatitium*. From that spice; liquid, pale yellow: from Banda.

OIL OF THYME, *Oleum origani*. From the plant; 2 cwt. fresh yield 5 oz. and a half, 3½lb. dried yield 3jss; stimulant, makes the hair grow, caustic, used in toothach: from France.—*O. petroselinii*.

OIL OF PIMENTO, *O. pimentæ, O. fructus myrti pimentæ*. From allspice; stimulant.

O. PIMPINELLE. From the roots of pimpernel; blue.

OIL OF PENNY-ROYAL, *O. pulegii*. From the herb when in flower; 13lb. yielded 3vj.

OIL OF RAVENTSARA, *Oleum raventsaræ*. From the leaves; sold in Europe for oil of cloves.

OIL OF RHODIUM, *Oleum e ligno rhodii*. From Levant lignum rhodium: 80lb. yielded 3ix; 80lb. very resinous old wood yielded 2 oz.; light, yellowish, but by keeping grows red: from the Levant; the oil of sandal-wood is sold for it.

OIL OF ROSES, *Ol. rosæ*. From the flowers of musk roses in the cups split open, soaked in twice their weight of salt water for several days, then distilled, and the water cohobated once or twice

on them: 1 cwt. yields from half an oz. to an oz. of oil; the oil of sandal-wood is sold for it.

OIL OF ROSEWORT, *Ol. rhodiolæ roseæ*. From the root; yellowish: 1lb. yields 3j; sold for oil of rhodium, and the water for rose-water.

BUTTER OF ROSES, *Adeps rosarum*. From the flowers of damask roses; white, solid, melts at 94 deg. Fahr. separating slowly from the rose-water: having but little scent of its own, it is used to dilute the scent of musk, civet, and ambergris.

ATTAR, (*itur, utr,*) *gul, or guhl, otto of roses, Oil of roses, O. rosæ*. From the evergreen rose and the musk rose, new-distilled rose-water being exposed to the night air; a highly-esteemed perfume; freezes at 50 deg. Fahr.; melts at 85 deg.: from the East Indies and the Barbary coast.

OIL OF ROSEMARY, *O. rosmarini, O. rorismarini officinalis*. From the flowering tops; sweet scented; 1 cwt. yields 8 oz.; 1lb. of dry leaves yields from 3j to 3iij; 70lb. of fresh leaves yield 5 oz. Stimulant, and given in nervous complaints, the dose being from two to six minims rubbed up with sugar.

RECTIFIED OIL OF ROSEMARY. By redistilling until one half of the oil is come over. Used for fine perfumery; the residuum contains camphire.

DISTILLED OIL OF RUE, *O. rutæ*. From the dried plant; carminative, antispasmodic: 10lb. of leaves yield 5j to 3iij; 4lb. in flower yield 5j; 60lb. yield 2 oz. and a half; 72lb., with the seeds, yield 3 oz. Antispasmodic, and externally rubefacient in hysteria, and the convulsive affections of infancy attendant on dentition. Dose from 2 to 5 drops rubbed with sugar or mucilage.

OIL OF SAGE, *O. salviæ*.

OIL OF SAVINE, *O. sabinae*. From the dried plant; stimulant, powerfully emmenagogue; externally rubefacient.

OIL OF SANDAL WOOD, *O. santali albi*. 1lb. yields 2 drachms; sold for oil of rhodium, and oil of roses.

OIL OF SASSAFRAS, *O. sassafras, O. lauri sassafras*. From the root of sassafras by distillation with salt water, and cohobation: 24lb. yield 9 oz.; 30lb. yield 7 oz. 5j; and 6lb. yield 2 oz. Stimulant, sudorific and diuretic, and given in scorbutus, chronic rheumatism and cutaneous diseases, the dose being from 2 to 10 minims rubbed up with water.

OIL OF LEMON THYME, *Huile de tain, Oleum serpylli*. 104lb. a little dried yield 3 oz.; 98lb. fresh yield 2 oz. and a half; 51lb. yield 1 oz. 3vj; used to scent soaps.

OIL OF TANSEY, *O. tanacetii*. From the herb.

OIL OF THYME, *Oleum thymi*. 2 cwt. fresh flowers yield 5 oz. and a half.

ESSENTIAL OIL OF TURPENTINE, *O. terebinthinae*, P. L. before 1809. From rough turpentine distilled with an equal weight of water, very slightly soluble in alcohol, does not contain succinic acid, the residuum is yellow rosin.

ETHEREAL OIL OF TURPENTINE, *O. terebinthinae aethereum*, P. L. 1716. From essential oil of turpentine, distilled without water in glass.

O. TEREB. RECTIFICATUM, P. L. 1788. Essential oil of turpentine, distilled with four times as much water.—2 *O. t. r.*, P. L. since 1809, *O. volatile pini purissimum*. Spirit of turpentine distilled with four times as much water.

PURIFIED OIL OF TURPENTINE, *O. tereb.* 8 oz. alcohol 1 oz., shake them together, pour off the alcohol, add a fresh quantity and repeat this, a third or a fourth time, until the oil becomes nearly tasteless and inodorous; but it soon recovers its own taste and smell. Oil of turpentine is stimulant, diuretic, diaphoretic, anthelmintic and rubefacient; and has been found serviceable in chronic rheumatism, lumbago and sciatica. It has also been used, either alone, or united with honey, against the tænia solium; for this latter purpose the dose is from half an ounce to two ounces; whilst in the former from ten minims to a drachm is usually prescribed. *Official preparation*.—Linimentum terebinthinae, *L.*

DISTILLED VEGETABLE OILS.

SPIRIT OF TURPENTINE, *Turps, Spiritus terebinthinae, Oleum terebinthinae*, P. L. since 1809. *O. pini volatile*. Distilled from rough turpentine, without any water; what is left in the still is colophony, or brown rosin, reddens litmus, contains succinic acid. Used by painters as a dryer, and also to make spirit varnishes. Town drawn in carboys. Hull or Liverpool in puncheons.

HUILE DE RAZE. Distilled from galipot or barras, without water. Sold for spirit of turpentine.

KRUMHOLZ OIL, *Oleum templinum*. By distillation from Hungarian balsam.

BALSAM OF TURPENTINE, *Dutch drops*. By distilling rosin, and collecting the oil in separate portions as it comes over; first a white oil, then yellow; lastly, a thick red oil, which is the balsam; stimulant, diuretic, suppurative.

SWEDISH TAR, *Russian tar, Cedria, Pix liquida*. From logs of *Pinus sylvestris*, by distillation in a kiln; the heat produced by the combustion of one part of the wood being managed so as to

carry on the distillation of the other part. Used as a powerfully antiseptic but coarse varnish, to light fires, and as a summer fuel.

AMERICAN GREEN TAR. From *Pinus palustris*, which has been exhausted of its rough turpentine by incisions for three or four years.

AMERICAN LIGHT WOOD TAR. From *pini palustres* that have fallen in the woods through age.

FRENCH TAR, Goudron de Bordeaux. From *P. maritimus*.

HUILE DE CADE, *O. cadinum*. From *Juniperus oxycedrus*; used as tar.

OIL OF TAR, *Jeran, Oleum pini, O. tade*. Obtained by distilling tar; soon thickens of itself, almost to a balsam.

OIL OF BRICKS, *Oleum lateritium*. From olive oil, mixed with brick-dust, and distilled; very resolvent, useful in palsy and gout.

OIL OF WOOD-SOOT, *O. fuliginis*. Fetid, used in epilepsy.

OIL OF BOX, *Oleum buxi, P. L. V*. From box-wood, by distillation, without addition; resolvent.

PYROLIGNEOUS TAR, *Wood tar*. Obtained in distilling and rectifying pyroligneous acid; will not unite with common pitch and tar. Used as a varnish.

OIL OF BENJAMIN, *Oleum benzoini*. Obtained by distilling by a strong fire the residuum left after making flowers of benjamin, used in making an imitation of Russia leather.

CREOSOTE. The following observations have been abridged from Dr. Gully's translation of Magendie's Formulary.

This is an oily, colourless, transparent liquid, of a penetrating odour, resembling that of smoke, or smoked meat, and of a burning and exceedingly caustic taste; its sp. grav. is 1.037. *Preparation.*—In the dry distillation of tar from wood, the fluid collected in the receivers contains an empyreumatic acid water, which is rejected, and oil of tar, which is placed in glass retorts and rectified. In these two distillations the oil of tar is at first light, but as the heat is increased its gravity augments. At one period of the process the oil sinks to the bottom, and a fluid which is poor in creosote, and consists mostly of *eupione*, and other substances that interfere with the purity of the creosote, floats above it. This is poured off, and the pale yellow tar-oil is heated; carbonate of potass is added, until the carbonic acid is no longer disengaged on shaking. The mixture is decanted, in order to separate the acetate of potass, and the oil is again distilled in a glass retort, and all the first products that float on the water are rejected. The oil is then dissolved in a

solution of caustic potass of the specific gravity 1.12; heat is thereby developed, and a portion of the materials composed of eupione, etc., not being dissolved, floats on the surface, and is removed. The alkaline solution is poured into an open capsule, and regularly heated to boiling. It rapidly absorbs the oxygen of the atmosphere, whereby a peculiar oxidizable principle in it is decomposed, and the mixture then turns brown. After cooling in the open air, diluted sulphuric acid is added until the oil is set at liberty. It is then distilled with water holding a little caustic potass, and the whole is kept boiling until the quantity of oil which passes from the retort becomes diminished; at this point the distillation should cease. The oil and water in the receiver are again distilled with potass, and the same treatment with sulphuric acid repeated, as in the former instance. A third distillation is then made, and a little phosphoric instead of sulphuric acid is added, in order to take up some ammonia retained in the oil. The oil is then for the third time dissolved in caustic potass, and if the preceding processes have been carefully managed, they combine without leaving any residue of eupione, and the mixture, on exposure to the air, does not turn brown, but takes on a slightly reddish tint. As long, however, as any eupione remains, and the mixture turns brown, the solution in potass should be repeated. In this state the creosote is not entirely pure, but it may be used for medicinal purposes.

It may be obtained perfectly pure by distilling it with water alone, then rectifying the product of the distillation repeatedly until no water passes over when the heat is raised to 203° C. The last product is creosote unalloyed by eupione, picamare, water, or other matters.

With respect to the *therapeutic properties* of creosote, it has been found beneficial in burns, in several skin diseases, in obstinate syphilitic ulcers, and in improving the condition of cancerous ulcers; it facilitates the expectoration in phthisis and bronchitis; chronic glandular tumors have been dispersed by frictions or fomentations of creosote; it has been often found to afford temporary relief in toothach; it arrests capillary hemorrhage with certainty, but fails in that from the large vessels; it has been found an almost effectual remedy in atonic rheumatism.

Mode of administering Creosote.—In the treatment of ulcers creosote is to be applied in the concentrated form. At first it occasions more or less of inflammation, which however quickly subsides; as soon as this inflammation appears, the remedy should be discontinued for a few days. It may be applied to the surface of the sore by means of a camel hair brush, or from 6 to 12 drops may be placed on a poultice, and this applied to the ulcer.—When the object is to arrest external hemorrhage, it may be poured by drops into the wound; or, what seems more effectual, cotton or

lint soaked in it may be applied.—When the object is to employ frictions, from two to eight drops are added to each ounce of water. The proportions for creosote ointment are 10 drops of creosote to 1 ounce of lard. For internal administration it may be given either in pills or draught, the former being made of one or two drops of creosote combined with some absorbent powder and mucilage, the latter of the same quantity, and some camphor mixture. Creosote may be inhaled either by steeping paper in it, and placing this close to the nostrils, or a portion of it may be poured into hot water in a Mudge's inhaler, and the creosoted vapour inspired in the usual way. When its internal use is continued for too long a time, it is apt to produce irritation of the system, and pains in the stomach and bowels. Demulcents should always accompany it.

CAMPHERE.

ROUGH CAMPHERE, *Laurel camphire, Camphora.* Obtained from the roots and shoots of the *Laurus camphora*, *L. cinnamomum*, and *Capura curundu*, by distillation with water. From China and Japan.

DRYOBALANUS CAMPHERE. Very little of this camphire comes to Europe, it being carried to China, where it sells for about 30 times the price of their own laurel camphire. Obtained by merely splitting the *Dryobalanus camphora*; the heart of this tree containing camphire mixed with oil of camphire. From Sumatra and Borneo.

REFINED CAMPHERE, by sublimation with one sixteenth its weight of lime in a very gentle heat. Camphire is stimulant, narcotic, and diaphoretic, gr. v to ʒj, in pills or a bolus; too large a dose occasions vomiting and convulsions, counteracted by opium; suspended in liquids, by means of mucilage, yolk of egg, or almonds. Camphire is put into boxes to keep insects from them, and is used in fireworks; it renders copal soluble in some essential oils.

LIQUID CAMPHERE, *Oil of camphire, Camphora liquida, Oleum camphoræ.* From *Dryobalanus camphora*, by piercing the tree.

CARATTE CAMPHERE. In tears, from the caratte. From Brazil.

ROSEMARY CAMPHERE. From the oil by a careful redistillation, without addition, of one third of the oil; the residuum affords crystals of camphire; on separating which, and redistilling the remaining oil two or three times, the whole of the camphire, 1 oz. from 10 of the oil, may be obtained.

SWEET MARJORAM CAMPHERE, about 1 oz. from 10 of the oil; not volatile; when set on fire it soon goes out.—*Sage camphire*, 1 oz. from 8.

LAVENDER CAMPHIRE, 1 oz. from 4, or even less, of oil.

THYME CAMPHIRE, crystals cubical, does not form a liquid solution either with nitric or sulphuric acid; is precipitated from nitric acid in a glutinous mass.

MARGARIC ACID. From oils by distillation, washing the solid sublimate, pressing it to separate the liquid oleine; used to make candles, but is rather too fusible, melting a little below 60 deg. Fahr.

SOAP CAMPHIRE. From soaps, by solution in water, adding muriatic acid, collecting the curd, washing it with boiling water, and pressing it to separate the liquid oleine. Is a mixture of stearic and margaric acids; used to make candles, which are very white, as neat as wax candles, and give a brighter light, but do not last so long.

TURPENTINE CAMPHIRE. From spirit of turpentine, by passing muriatic acid gas through it, by which means it will yield about its own weight of a kind of artificial camphire, not dissolved by dilute nitric acid, and when dissolved by strong nitric acid not separated by the addition of water.

CITRON CAMPHIRE. From the white rectified oil of citrons, exposed to muriatic acid gas it absorbs 286 times its bulk, or nearly half its weight, and yields about 9-10ths of camphire.

ETHERS.

HYDROCYNIC ÆTHER. Prepared by exposing equal parts of sulpho-vinate of baryta and cyanuret of potassium to a gentle heat in a glass retort, to which a tubular matras is adapted. The product of the distillation is an almost colourless fluid, which separates into two parts, the lighter one being hydrocyanic æther; its action similar to that of prussic acid.

ÆTHER SULPHURICUS. Mix gradually equal weights of oil of vitriol and rectified spirit in a retort, and make the liquor boil as soon as possible; continue the distillation until a heavier liquor begins to appear under the ether in the receiver. If half the former quantity of rectified spirit is added to the residue left in the retort, more ether will be obtained.

ETHER, Æther rectificatus. Æth. sulphurici fl. ʒxiv; potassæ fusæ ʒss; aq. dist. fl. ʒij; distil. fl. ʒxij; add aq. dist. fl. ʒix; shake together, decant the ether. Stimulant, antispasmodic, gtt. xx—ʒjss, in water or wine; externally refrigerant, used in head-ach, and in burns, and dropped into the ear in earach.—*Official Preparation*. Spiritus ætheris sulphurici, L.

NAPHTHA VINI, Æther vitriolicus. Spir. æther. vitriolici, P. L. 1788, lb. ijss, aq. kali puri ʒj; distil. ʒxiiij.

NITROUS ETHER, Æther nitrosus. Put ʒxxiv of nitre into

a retort, placed in a pan of cold water, and pour upon it, by degrees, a mixture of ℥xij of oil of vitriol with ℥xix by measure of spirit of wine, which has been made gradually and grown cold; let the vapour, the evolution of which must be regulated with great caution by the addition of warm or cold water to that in the pan, pass through a pint of spirit of wine. To the ethereal liquor thus obtained, add about ℥j of subcarbonate of potash to neutralise the acid, the ether will swim on the surface: if it be required very pure, it may be rectified to one half, by distillation in a water bath, at about 140 deg. Fahr.; scarcely ever used.

ETHER MURIATICUS. Obtained by distilling, by a very gentle heat, a mixture of equal parts of alcohol and liquid concentrated hydrochloric acid. Is extremely volatile, and is decomposed by water. Its action is nearly that of sulphuric ether.

ÆTHER MURIATICUS ALCOHOLICUS. (*Phar. Par.*) Dry salt ℥vij, ground black oxide of manganese ℥iij, mix, add alcohol ℥xxiv, rectified oil of vitriol ℥vj, distil into a cooled receiver ℥xvj. It should show 22 deg. Baume.

ÆTHER ACETICUS. Put acetate of potash ℥xvj into a retort; mix alcohol ℥xvj with rectified oil of vitriol ℥vj, pour it on the acetate and distil to dryness. To the distilled liquor add lime water to separate the ether.

OIL OF WINE, *Oleum vini.* Mix equal measures of spirit of wine and oil of vitriol, distil by gentle heat, taking care that the black scum does not pass over into the receiver; separate the oily portion that passes over, add liquor potassæ to saturate the acid, then distil it by a gentle heat; ether passes over, and the oil remains floating on the liquor.

OLEUM ÆTHEREUM. Continue the distillation of the ingredients for sulphuric ether, with a less degree of heat, after the ether is come over, until a black froth begins to rise, then remove the retort from the fire, adding sufficient water to the liquor in the retort, that the oil may float on the surface; separate this oil, and add lime water, q. s. to neutralise the adherent acid, upon which the oil will separate itself; antispasmodic; used as an ingredient in the compound spirit of æther.

PYROLIGNEOUS ETHER. From wood very copiously: more volatile than alcohol: has a peculiar odour, but burns well in lamps.

TURPENTINES AND BALSAMS.

BALSAMUM JUDAICUM, *B. de Mecha, Opobalsamum.* Exudes from incisions made in *Amyris Gileadensis*, or *Amyris opobalsamum*, and is at first turbid, yellow, becomes clear, gold colour, of a very penetrating sweet turpentine smell, and has a sharp, bitter, astringent taste: a drop of it let fall on warm water spreads over the whole surface, and on the water cooling, again contracts itself.

BALM OF GILEAD, *Balsamum Gileadense*, *Amyridis Gileadensis balsamum*, *Balsamæleon*, *Oleum balsami*. Obtained by boiling the twigs and leaves in water; thin and oily, or, by a longer continued decoction, is thicker and less odoriferous; anti-septic, vulnerary; its fumes are said to be useful against barrenness; used also as a cosmetic, stimulating the skin so as to cause redness and swelling.

CANADA BALSAM, *Balm of Gilead*, *Resina strobilina*, P. L. *Balsamum Canadense*, *Terebinthina Canadensis*, *Pini balsameæ resina liquida*. From *Pinus balsameæ*; from America; used for balm of Gilead.

BALSAM OF CAPIVI, *Balsamum copaibæ*, *Ol. capiviæ*, *Copaiba*, *Copaifera officinalis resina liquida*. Flows from the *Copaifera officinalis*; deterrent, vulnerary, diuretic, and astringent; may be given to gtt. lx, or more, if the stomach will bear it, in leucorrhœa and gonorrhœa. By taking about gtt. xxx of elixir of vitriol in a glass of water, twice a day, the stomach may be made to retain gtt. lxx to c of the balsam night and morning; a good dressing for fresh wounds. Reduced by castor oil, which is equally soluble in alcohol, and by rape oil. From Brazil.

HUNGARIAN BALSAM, *Resina strobilina*. Exudes from the extremities of the branches of *Pinus pumilio*, and is also obtained by expression from the cones.

STRASBURG TURPENTINE, *Terebinthine de Venise*, *Resina abietis*, P. L. before 1809, *Oleum abietis*, *Terebinthina Argentoratensis*. Obtained by piercing the tubercles of the bark of *Pinus picea*. A shepherd boy can collect only 4 oz. in a day.

FIR TURPENTINE, *Resina abietina*, P. L. 1720. From *Pinus picea* by incision; is not so fine as the Strasburg turpentine.

VENICE TURPENTINE, *Terebinthine fine*, *Ter. Veneta*, P. L. 1720. The fine clear part of rough turpentine that collects on the top by standing, or drains from the barrels exposed to the sun.

SCIO TURPENTINE, *Venice turpentine*, *Resina terebinthini*, *Terebinthina vera*, *T. Chia*. Obtained by incision from the *Pistacia terebinthus*, very clear and fine.

CYPRUS TURPENTINE, *Ter. Cypria*. From the *Pistacia terebinthus*, but collected with less care than at Scio; foul.

LARCH TURPENTINE, *Terebinthine de Suisse*, *Resina laricis*, *Terebinthina Veneta*, *Pini laricis resina liquida*. From the larch, by boring it nearly through.

ROUGH TURPENTINE, *Horse Turpentine*, *Resina pini*, *Terebinthina vulgaris*, *T. communis*. From *Pinus sylvestris*, by cutting a hollow in the tree to catch the turpentine, and taking off the bark for a space of about eighteen inches above it. From Sweden and New England.

IV. OILY COMPOUND COMBUSTIBLES.—

CAROLINA ROUGH TURPENTINE. From the *Pinus palustris*. Imported from Wilmington.

FRENCH TURPENTINE, *Terebinthine commune de Bordeaux*. From *Pinus maritimus*, the turpentine being melted and strained through straw.

BRIANÇON TURPENTINE, *Terebinthina Brianzonica*. From the *Pinus cembro*.—All the turpentines are stimulant and diuretic; dose \mathfrak{z} to \mathfrak{z} j in pills, or made into an emulsion with yolk of egg or almonds; used externally, they are vulnerary and suppurative.

WHITE BALSAM OF PERU, *Natural balsam, Balsamum album, Styraax alba*. Obtained by incision from *Myrospermum Peruifera*.

RED BALSAM OF PERU, *Balsam of Tolu in gourds, Tolu, Balsamum Tolutanum, B. de Tolu, Toluiferae balsami balsamum, Tolutanum*, P. U. S. Colour reddish, agreeable sweetish taste, a middle consistence between liquid and solid, very glutinous, the fragrancy of lemons; anti-phthysical, vulnerary, anti-arthritic, nervine; dose, gtt. x—xxx; balsam of Tolu in cakes is sold for it.

BLACK BALSAM OF PERU, *Common balsam of Peru, Balsamum Indicum nigrum, B. Peruvianum, Myroxylis Peruiferi balsamum, Myroxylon*, P. U. S. Obtained by boiling the bark and branches in water. From South America. The balsams of Peru all contain benzoic acid, which gives them a very fragrant smell; taste sharp and bitter; are nervine, cephalic, stomachic, anti-asthmatic, externally vulnerary; dose gtt. x to xxx; used also in perfumery.

BALSAMUM POPULI. From the buds of the *Populus balsamifera* pressed between heated plates; buttery, brown, reddish, rather fragrant; 4 oz. of buds yield \mathfrak{z} ij of balsam.

RACKASIRA BALSAMUM. Transparent, brownish, red, thick, drawing in threads, balsamic smell and taste, rather bitter when tasted, and glues the lips together; brought to England in gourds.

LIQUID STORAX, *Styraax liquida*. Obtained by boiling the young shoots of the *Liquidambar styraciflua*, or *Altinga excelsa*, in water.

LIQUID AMBER, *Huile de copalme, Liquidambra, Ambra liquida*. Obtained by incision from the *Liquidambar imberbe*? resolvent, suppurative, and used in perfumes, as it has the smell of benzoin.

BALSAMUM MARIÆ, *Bals. tacamahaca, C.P. Oleum sanctæ Mariæ, Bals. calaba, Bals. Sancti Thomæ? Calaba*. Yielded by the *Calophyllum apetalum*; yellowish, becomes thick and green by drying, sweet scented.

BALSAMUM VIRIDE. From the *Chloroxylon verticillatum* of Peru.

GANDAH BIROSA. From *Boswellia serrata*; clear, greenish, hardens into pinky olibanum.

PÆNOE VARNISH, *Peymia varnish, Liquid copal, Pundum.* From *Vateria Indica*, or *Elæocarpus copalliferus*.

BIRCH OIL, *Ol. betulae.* Obtained by heating birch bark in an earthen pot with a hole in its bottom, so that the rosin of the bark, as it melts out, flows down into another jar sunk in the ground, and luted to the upper jar; used in Russia to curry leather, preserving it from mouldiness and the attacks of insects.

BALSAM ACOUCHI. Flows from the *Amyris acuchini*; odorous, vulnerary, nervine.

CLUSIA TURPENTINE. From *Clusia alba* and *C. rosca*; used as pitch.

WOORAROO POISON, *Balsam arouarou.* Flows from the *Icica hetaphylla* pitch; smells like citron; used to poison weapons.

SUNFLOWER TURPENTINE. From *Helianthus annuus*.

JERUSALEM ARTICHOKE TURPENTINE. From *Helianthus tuberosus*. Obtained by boiling the heads and skimming off the turpentine; very pale and clear. Sold for Strasburg turpentine.

BALSAM HOUMIRI. Flows from the *Myrodendron houmiri*; red, transparent, balsamic; used for torches.

JAPAN TURPENTINE. By incision from *Rhus vernix*: used in varnishing.

WOOD OIL. From the trunk of *Dipterocarpus turbinatus*.

SOFT MASTICH, *Mastich oil.* Obtained from mastich trees, which have been grafted upon the turpentine tree.

ROSINS.

FLAG ANNOTTO, *Orleana, Terra orleana, Orleana in foliis.* In square cakes of 2 or 3lbs. each, beat up with oil, either linseed, nut, or whale.

EGG ANNOTTO, *Orleana in ovulis.* By steeping the seeds of *Bixa orellana* in water for seven or eight days, stirring the liquid, passing it through a sieve, and boiling it; when the colouring matter is scummed off, and made up while soft with oil into cakes; cathartic and then astringent, discussive, febrifuge, but little used in medicine, chiefly in dyeing. From the West Indies.

ROLL ANNOTTO, *O. in rotulis, O. in baculis.* In small oblong cakes, internally bright red. By rubbing the seeds with the

hands, previously dipped in oil, till the red pellicles come off, and are reduced into a clear paste, which is scraped off and dried in the shade: used by females as a paint. From South America and the East Indies.

GUM ANIME, *Gummi anime*. From *Hymenæa courbaril*: used to make spirit varnish; soluble in alcohol. Gum cancame and Jamaica-birch rosin are sold for it. From Brazil and the East Indies.

HEAD BENJAMIN, *Benzoinum*, *Assa dulcis*, *Styracis benzoini balsammum*. By incision from *Styrax benzoin*; odoriferous, fragrant, balsamic, anti-asthmatic: used in perfumery and odoriferous fumigations. From Borneo and Sumatra.

CAFFRE'S HEAD BENJAMIN. Inferior in quality.—*Foot benjamin*. From *Terminalia benzoin?* or *Laurus benzoe*; brownish, hard, impure.

JAMAICA-BIRCH ROSIN, *Resina chibou*. From the *Bursera gummifera*; white or yellowish; used for varnishes; sold for gum anime.

CARANNA, *Gummi caragna*, *Tacamahaca caragna*. Origin not well known; brought from New Spain in masses, covered with broad leaves; resolvent, dark olive.—*Fetid caranna*. Has a fetid smell when burnt: from a chamerrops?

GUM CHANDRA, *Gum kikekanumala*, *Moschat rosin*, *East Indian copal*, *Gomme copal*, *Gummi chaudetros*, *G. chanderros Copal*, C. P. From *Vateria Indica*; used in varnishes; resembles yellow amber, and is sold for it. From Madagascar, and also among Sumatra camphire.

GUM COPAL, *Copal*. From *Rhus copallinum*: used as a cement in fumigations, as it diffuses an agreeable scent when burned, and in hard varnishes; not soluble in alcohol without the help of camphire or ammonia, and scarcely in oils, except oil of rosemary.—*Melted copal*. Obtained by holding the gum before a good fire, so that as soon as the copal melts, it may drop into a pan of water: a kind of oil separates from it, and the copal becomes soluble in spirit of wine, and still more so if the melting is repeated.

GUM ELEMI, *Icica*, *Elemi*, P. L. since 1720. By incision from *Amyris elemifera*; yielding a sweet odour when burnt. From South America.

EAST INDIA ELEMI, *Gum cancame*, *Gomme elemi*, *Elemi*, P. L. V. and C. P. *Cancamum*, *Balsamum cancamum*. From *Gardenia elemifera*; whitish, clear, resembles white amber; anti-septic, detergent: sold for gum anime, but alcohol only dissolves 6 oz. out of 10. From Arabia and Ceylon.

GUM GUAIAECUM, *Gummi guaiacum, Guaiaci resina*. By incision, from *Guaiacum officinale*; tonic, antiscorbutic, diaphoretic, in doses of gr. v to ℥j, in pills or in emulsion; purgative in doses of gr. xv. to ℥ij: Manchineal gum is sold for it. From the West Indies.

INCENSE, *Frankincense, Encens, Looban, Thus in guttis, Olibanum in guttis, Juniperi Lyciæ gummi resina*;—the larger grains, *Encens mâle, Thus masculum*;—the smaller grains, *Encens femelle, Thus fœmininum*;—the grains from which the dusty crust has been rubbed off in carriage, leaving them transparent, *Manna thuris crystallina*;—the dust of the crusts collected at the bottom of the sacks, *Manna thuris*. In small, pale, yellow drops, like mastich, rather hard, transparent, bitterish, sweet-smelling, not easily melted, takes fire easily, and burns with a sweet odour, leaving white ashes: sialogogue, stimulant ℔ss to ℥ij; also used to fumigate sick-rooms, and in religious ceremonies. From some thorny tree, *Juniperus Lycia?* *J. Phœnicia?* *J. thurifera?* *Amyris kataf?* or some undescribed amyris. Brought from the Levant; pink olibanum and fir rosin are sold for it.

PINK OLIBANUM, *Avul (best) coondoor, Paringhi sambrani, Looban, Sukka birosa, Olibanum, P. L.* since 1805. In semi-transparent tears, pink colour, brittle, adhesive to the teeth when chewed, bitterish, pungent, aromatic, burning with an agreeable odour, and clear steady light, leaving a black coal. By incision from the sala or birosa tree, *Boswellia serrata*, or *Libanus thurifera*: used in India as a medicine, but not as incense.

BROWN OLIBANUM, *Koondricum, Coondoor, Googil, Thus in massis*. In pretty large agglutinated masses, composed of light brown and yellowish tears, a stony hardness when pressed between the teeth, slightly pungent and bitter, more perfectly soluble in alcohol and ether than pink olibanum, and not burning with such a brilliant light. Obtained from *Boswellia glabra* by incision: used in the East Indies as incense in religious ceremonies, and, when melted with some cheap oil, used as pitch. From Madagascar, Arabia, Sumatra, and the other eastern islands.

LADANUM, *Labdanum*. Exudes from the *Cistus creticus*, obtained by lashing the tree with leather straps, to which it adheres, and is scraped off.—*Ladanum in sortis*. By boiling the twigs of *Cistus ladaniferus* in water: digestive, tonic, astringent; also used in toothach.

MASTICH, *Mastiche, Resina lentiscina, Pistaciæ lentisci resina*. By incision, from *Pistacia lentiscus*; in small, round, yellow drops; tonic, detersive, and chewed to sweeten the breath and fasten the teeth. From the Levant.—*Barbary mastich*. From the *Pistacia Atlantica*.

OLAMPI GUM, *Gummi olampi*. Of unknown origin. From America.

BURGUNDY PITCH, *White pitch*, *Pix Burgundica*, *Pix alba*, *Resina abietis humida*, *Resina alba humida*, *Pini abietis resina sponte concreta*, *Pix arida*, P. L. 1809, *Pix abietina*. By incision, from *Pinus abies*, becomes solid immediately: it is melted with water and strained through coarse cloths: of a close consistence, rather soft, reddish brown, smell not unpleasant: very adhesive to the skin, rubefacient, used in colds, and short breath. From the North.

FIR ROSIN, *Per-rosin*, *Frankincense*, *Thus fœmininum*, *T. vulgare*, *Olibanum vulgare*, *Resina abietis sicca*, *Abietis resina*, L. P. since 1809. Exudes from *Pinus abies*, compact, opaque, deep yellow; not so adhesive as Burgundy pitch, sold for incense, 10d. the lb.

NATIVE ROSIN, *Resina pini nativa*. Exudes from *Pinus sylvestris*, the turpentine drying upon the wound, and forming a white crust over it.

WHITE ROSIN, *Resina pini communis*, *Resina alba*, P. D. and P. E. Prepared from native rosin by melting and straining through a cloth; used indifferently with Burgundy pitch; adheres to the fingers.

BARRAS, *Galipot de Bordeaux*. Exudes from *Pinus maritima*; yields by distillation huile de raze.

AMERICAN ELEMI. Exudes from *Pinus palustris*.

GUM SANDARACH, *Gum Juniper*, *Sandaraca*, *Gummi juniperi*. Yielded by the *Thuja articulata*, and *T. quadrivalvis*, astringent and tonic, used also in making varnishes, and in powder, *pounce*, to prevent ink from sinking in parchment, bad paper, or where they have been scraped.

DRAGON'S BLOOD IN THE TEAR, *Sanguis draconis in lacrymis*. From the *Dracæna draco*, by incision; very pure, used in varnishes and dentifrices; powder a bright red, *cinnubris*.—*Dragon's blood in sticks*, *Sang. drac. in cannis*, *Pterocarpi draconis resina*. From *Pterocarpus draco*, P. Indicus, and P. santalinus. In small masses, wrapped in leaves, dark red, breaks smooth; powder crimson. From the East Indies.—*Dragon's blood in balls*, *Sang. drac. in placentis*. Obtained by macerating or steaming the fruit of the *Calamus draco*; in round masses wrapped up in leaves of reeds, coarse grained; powder brownish red. Are all astringent. Used in tooth-powders, and to stain marbles red. From the East Indies.—*Surinam dragon's blood*. From *Dahlbergia monetaria*.

GUM STORAX, *Red storax*, *Thus Judæorum*, *Styrax in massis*, *S. rubra*, *Styracis balsamum*, *Balsamum styracis officinalis*. Ob-

tained, by incision, from *Styrax officinale*, and perhaps from *Liquidambar orientalis*, in round cakes, hard, brownish red, mixed with whitish or yellowish fat grains, breaking under the finger, smells like balsam of Peru, bitter, stimulant, expectorant, gr. x to ℥jss. From the Levant.

STYRAX CALAMITA, *S. in vesicis*, *Scobs styracina*. In bladders, unctuous, marbled on the inside, easily melted, smells like benjamin; used in perfumes. From the Levant.

DROP STORAX, *Storax en grains*, *Styrax in granis*. In white, transparent grains, softening between the fingers, smells very agreeable but slight.—*Strained storax*, *Styrax colata*. Storax heated till it softens, and then passed between heated iron plates; 1lb. storax, warmed in bags, and pressed between iron plates, so hot, that they are nearly sufficient to make water hiss, yields two oz. and a half of strained storax.—*Storax purificata*. Storax dissolved in spirit of wine, the solution strained and evaporated to a proper consistence.

TACAMAHAC IN THE SHELL, *Tacamahaca*. From *Fagara octandra*: imported in gourds, greenish, soft, smells of lavender, taste aromatic, cephalic, nervine, externally suppurative, astringent; used in fumigations.

TACAMAHAC IN THE LUMP, *Balsamum Focot*. From *Populus balsamifera*; greenish yellow, in tears run into a mass; sweet scented: stomachic.—*Bourbon tacamahaca*, *T. Mauritanica*, *T. vera*, C. P.; from *Calophyllum inophyllum*, now *C. tacamahaca*.

BALSAM OF TOLU IN CAKES, *Baume de Carthagene*, *Balsamum Tolutanum in placentis*. Red, solid, having been dried in the air; nervine, cephalic, anti-asthmatic: used for balsam of Tolu in gourds or jars. From Peru.

DARK YELLOW GUM, *Botany bay gum*, *Gummi flavum*, *N. S. W. Gummi resina acaroidis*; from the base of the leaves of *Xanthorrhoea hastilis*, or *Acarois resinifera* of New South Wales: antidysenteric, and employed to unite the lips of wounds, however large or dangerous; also to compose a cement; resembles gamboge, but darker, not entirely soluble in alcohol, the remainder not soluble nor diffusible in water.

LIGHT YELLOW GUM. Resembles yellow arsenic, gives water the smell of storax, but is not soluble in it; 2 oz. out of 3 are soluble in alcohol, the solution is glutinous, what remains is astringent and soluble in water, taste pleasant. Both burn as freely as rosin, and smell, when burning, like balsam of Peru.—*Blue gum*. From the *Evania resinifera* of Botany bay.

TRUE VARNISH RESIN. Yielded by the *Terminalia vernix*; used by the Chinese in varnish.

MANCHINEL GUM. Yielded by the *Hippomane mancinella*; sold for gum guaiacum.

CANARIUM GUM. Yielded by *C. balsamiferum*; sweet scented, used for incense.

CLOVE GUM. *Resina caryophyllorum.* Reddish brown, found among cloves.

AVA DAMMER. From *Pinus dammar.*—*White Malabar dammer.*—*Black Malabar dammer.*—*Coarse Malabar dammer.* All from *Chloroxylon chupada.*—*Nepaul dammer.* From *Shorea robusta.* All these dammers are used in India for all the purposes of turpentine, rosin, and pitch.

TECAMEZ SANDAL RESIN. From the sandal tree of Tecamez.—*Volkameria rosin.* From the *V. incermis* of India.—*New Zealand rosin.* From *Avicennia resinifera.* Both are red and astringent.

HOG GUM. Exudes from *Rhus metopium.* Is black, very adhesive: called hog gum because the wild hogs, when wounded, rub themselves against the tree.

TABERNÆ MONTANA RESIN. From *T. arcuata.*—*Mombin rosin.* The produce of *Spondias myrobalanus.*—*Bursera rosin.* The produce of *B. Orientalis*; is tonic, styptic.—*Escallonia rosin.* From *E. resinifera,* purplish.—*Uvaria gum.* From *U. tritape-loidea,* very odoriferous: all these are tonic, astringent, and aromatic.

AUGIA ROSIN. From *A. Sinensis*; black, used in China for varnish, and medicinally as a purgative.

BARBADOES CEDAR ROSIN, *Gummi cedrinum,* Col. of Ph. Col.

PERUVIAN MASTICH. From *Schinus molle*; white, smelling like fennel and pepper.

COUMIA RESIN. From *Amyris ambrosiaca*; used as incense, and in chronic diarrhoea.

TICUNA. From *Amyris toxifera*; used to poison weapons for war and hunting.

KINA-KINA ROSIN. Yielded by *Myrospermum pedicellatum*: used by gouty persons to hold in the hand.

LOVAGE ROSIN, *Resina ligustici.* Exuded by Cornish lovage.

GUARANA. From Brazil. Col. Ph. Col. Origin not known.

BOILED PITCH, *Stone pitch, Pix sicca, P. atra, P. navalis, P. arida,* P. L. before 1809. Obtained by boiling or distilling tar to the desired consistence; in medicine used only as a resolvent in plasters.—*Fired pitch.* By letting tar burn until about half, or

2 cwt. out of 3 are consumed.—*Poix noir, Poix grasse.* From the dregs of resin and the straw by which it has been strained, run down in a pitch-kiln.

YELLOW ROSIN, *Poix resine, R. flava, R. pini oleo volatile deprivatum.* Obtained by boiling or distilling rough turpentine with water, or by boiling or distilling turpentine, and pouring the residuum, while yet fluid, into water, of which it absorbs about 1-8th of its weight: suppurative externally, used in ointments and plasters.

BOILED TURPENTINE, *Terebinthina cocta, P. L. V.* Venice turpentine 1lb. boiled in 20 pints of water, until as brittle as glass; made into small cakes, for rubbing fiddle-sticks.

BROWN ROSIN, *Black rosin, Greek pitch, Brai sec. Colophane, Pix Græca, Colophonium, Resin anigra.* Obtained by boiling or distilling rough turpentine without water; suppurative externally.

RESINOUS EXTRACTS.

ROSIN OF CALAMUS AROMATICUS, *Resina calami.*

ROSIN OF SCAMMONY, *Resina scammonii.*

ROSIN OF JALAP, *Resina jalapæ.* 10lbs. yielded 1lb.: not soluble in ether.

ROSIN OF GUAIACUM, *Resina guaiaci.* Dissolves in ether.

ROSIN OF TURBITH, *Resina turpethi.* Eight oz. yield 3 v.

RESINA CORTICIS PERUVIANI. Digest rectified spirit upon the substances repeatedly, till the last portion is not tinged; distil off the spirit till but a fourth part remains, add water to cause the rosin to settle, which is then to be washed and dried.

EXTRACTUM CINCHONÆ RESINOSUM. Soak 2lbs. bruised bark in 4lbs. spirit of wine for four days, filter and distil off the spirit.

BARRY'S RESINOUS EXTRACT OF BARK. Distil tincture of bark, made with rectified spirit, nearly to dryness, remove the rosin on its surface, and evaporate slowly the remaining liquid to a fine extract.

ROSIN OF ALOES, *Resina aloes.* The insoluble residuum left in making washed aloes.

OPIUM PURIFICATUM MOLLE, P. D. Digest lb. j of sliced opium in lb. xij of proof spirit; and after filtration, distil off the spirit till the mass is reduced to a consistence fit for pills.

Op. pur. durum. Made sufficiently hard to powder.

ALCOHOLIC EXTRACT OF NUX VOMICA. Digest rasped nux vomica in alcohol lb. j at 40 deg. Baume, in a cool place, strain and evaporate to an extract; if weak alcohol be used, the extract is not so powerful.

DRY ALCOHOLIC EXTRACT OF NUX VOMICA. Make a tincture of nux vomica with alcohol at 36 deg. Baume; filter, and evaporate on shallow plates with a very gentle heat; acts strongly as an excitant of the nervous system; in pills, gr. j to ij, increased gradually and cautiously to ℥ss, or until the tetanic symptoms become considerable: used in palsy.

BRUCINE. Digest ether on powdered bark of *Brucea antidy-senterica*, to separate a fatty matter; strain, add alcohol at 36 deg. Baume; digest, filter, evaporate to dryness; dissolve the mass in water, add liquid subacetate of lead; filter, pass sulphuretted hydrogen gas through the clear liquor; filter again, and add calcined magnesia: filter again, wash the sediment very slightly with cold water, dry, digest in alcohol, filter, and distil off the spirit. To purify the brucine, add a solution of oxalic acid, crystallize, add a mixture of alcohol at 40 deg. Baume, and ether at 60 deg., to extract the colouring matter, then dissolve the oxalate of brucine in water, add calcined magnesia, filter, digest the sediment in alcohol, filter, and let the spirit evaporate by exposure to the air. Brucine is crystalline, very bitter, scarcely soluble in water; acts strongly on the nervous system, gr. ss gradually to gr. vj. Nitric acid turns it deep crimson.

CINCHONINE. Boil Peruvian bark in alcohol until all the bitterness is extracted; distil to dryness; dissolve the extract in boiling water, rendered very acid with muriatic acid; add calcined magnesia, boil for a few minutes till the liquor is clear; when cold, filter, wash the sediment left on the filter with cold water, dry it, boil alcohol upon it until all the bitterness is extracted; pour off the alcohol, and, as it cools, the cinchonine will crystallize. It may be purified by solution in a very weak acid, and the addition of an alkali; white, crystalline, scarcely soluble in water, or in ether: used in combination with sulphuric or acetic acid.

DELPHINE. Blanch stavesacre seeds, beat them to a paste, boil with a little water, strain, add calcined magnesia, boil for some minutes, filter, wash the sediment with water, and digest it in alcohol at 40 deg., decant the tincture and distil off the spirit; the delphine is left as a white powder; scarcely soluble in water, but soluble in alcohol or ether. Not yet tried medicinally.

2. Bruise unhusked stavesacre seeds, add weak sulphuric acid, filter, add ammonia to separate the delphine; dissolve in alcohol, distil off the spirit, dissolve the extract in muriatic acid, add calcined magnesia to saturate the muriatic acid, and throw down the delphine purer than before; redissolve in alcohol, filter, and distil off the spirit.

DIGITALINE. Supposed to be the active principle of *digitalis*.

Sufficient researches have not, however, been yet made, to sanction the introduction of this substance into medicine.

EMETINE. Pour ether at 60 deg. $\bar{3}$ ij on powdered ipecacuanha $\bar{3}$ j, digest, decant, distil, and repeat this as long as any fatty odorous matter is extracted from the root; then digest the powder in alcohol of 40 deg. $\bar{3}$ iv, repeat this three times with fresh alcohol; distil gently to dryness, dissolve what is left in cold water; add subcarbonate of magnesia to separate the gallic acid it contains, dissolve again in alcohol, filter, and evaporate to dryness; produces 70 or 80 grains. In reddish brown scales, easily running in the air, not crystallizable; emetic in doses of a quarter of a grain, or rather more.

PURE EMETINE. Digest powdered ipecacuanha first in ether, and then in rectified spirit; distil off the spirit, and dissolve the remainder in water, add calcined magnesia in sufficient quantity; pour off the liquor, wash the remainder with a little very cold water to separate the colouring matter, and dry it, digest alcohol on it, filter, distil off the spirit; dissolve the remainder in diluted acetic acid, clarify the solution by bone black, and add ammonia to throw down the emetine, which is white, scarcely soluble in water; emetic in doses of a sixteenth of a grain.

GENTIANINE. Digest gentian root in powder in ether for two days and nights, filter, evaporate nearly to dryness; add alcohol to the yellow crystalline mass thus obtained until it no longer becomes coloured; evaporate to dryness, redissolve in weak alcohol, filter, evaporate again to dryness; dissolve in water, add some calcined magnesia, boil, filter, digest the sediment in ether, and evaporate to dryness. Gentianine is yellow, scarcely soluble in water, very soluble in alcohol or ether; a strong aromatic bitter, in doses of gr. ij; the tincture is mostly used.

GLAIADINE. Rub fresh-made gluten of wheat flour with alcohol, evaporate to dryness: the glaiadine thus obtained may be purified by extracting the colouring matter by means of sulphuric ether, which does not dissolve the glaiadine; used to form a test liquor.

LUPININE, prepared by boiling the *lupinus terminis* in alcohol of the specific gravity 936, filtering the solution, and then evaporating to dryness. The residuum has a yellowish-green colour, is very solid, and transparent. This is dissolved in water, the colour removed by animal charcoal, the solution evaporated to the consistence of syrup, by which small white crystals are obtained. The liquid is then evaporated to dryness, the extract heated anew with boiling alcohol, and again evaporated, and then a bitter principle is obtained to which the name of *lupinine* has been given. This is a solid substance of a yellowish colour. Its

taste is exceedingly bitter: it is soluble in water, as also in alcohol of sp. grav. 936; but insoluble in ether or pure alcohol. This has been considered capable of curing intermittent fever.

MORPHIA, *Morphium*, *Morphine*. Opium ζ ij, water $\bar{3}$ x, soak for five days; filter, add calcined magnesia 3j gr. xij: or rather quicklime 3jss; boil for ten minutes, filter, wash with cold water till the water passes off clear, dry, and digest in warm alcohol of 22 deg. as long as it becomes coloured: boil the residuum in alcohol of 32 deg. for a few minutes; filter while hot, and as it cools, crystals of morphia will separate. These crystals may be purified by boiling them in alcohol, and recrystallizing them. Bone black may also be used to separate the colouring matter; extremely bitter, narcotic, used in the form of an acetate or sulphate.—The residuum, *Extract of opium exhausted of morphine*, is also used; gr. iij are equal to gr. j of extractum opii aquosum, or to $\frac{1}{4}$ gr. of morphine.

NARCOTINE, *Sel d'opium*, *Matière de Derosne*. Exhaust opium of whatever water will separate from it, dry the remainder, add muriatic acid at 4 deg. Baume, or rather pyroligneous acid at 4 or 5 deg., strain with pressure: to the liquor add ammonia, wash the precipitate with boiling alcohol at 36 deg., the narcotine taken up will separate as the alcohol cools, and may be purified by bone black: narcotic.

EXTRACT OF OPIUM EXHAUSTED OF NARCOTINE. Evaporate the washings of the opium nearly to dryness, add ether to dissolve any narcotine which may be left in them, decant, and evaporate to an extract: superior to the ordinary watery extract of opium.—*Codeine*. In treating solution of opium with muriate of lime a muriate of morphia is precipitated, in combination with codeine. This latter substance forms, with the acid and morphia, *Gregory's salt*, or the *double muriate of morphia and codeine*. From this the latter is separated by ammonia, the major part of the morphia precipitating. The supernatant solution of codeine and ammonia, with some non-precipitated morphia, is concentrated until the chlorohydrate of ammonia begins to crystallize, and with it the double salt of morphia and codeine. The crystals are to be dissolved in water, filtered through charcoal, and a slight excess of caustic potash added, by which means the codeine alone is precipitated, and is then taken up by alcohol or ether. Codeine combines with acids, forming salts; its action similar to that of morphia, but is not so powerful, one grain of it being equivalent to half a grain of morphia. Some say that it possesses a specific influence over the ganglionic system of nerves. It may be given either in a julep, or in pills. The hydrochlorate is more active than the simple codeine.

PIPERINE. Digest bruised black pepper lb. ij in alcohol at

36 deg. Baume, lb. iij, boil, when cool, decant and pour on fresh alcohol lb. iij, mix the tinctures, add distilled water lb. ij, and muriatic acid 3 oz.; take away the fatty matter that is separated, and the piperine will be found collected on the filter and sides of the vessel in fine crystals.

2. Digest black pepper in alcohol as long as any thing is taken up, evaporate the tinctures, wash the fat that is obtained with boiling water, dissolve it in alcohol, leave the alcohol to evaporate spontaneously, and crystals of piperine will be obtained.

QUININE. Made from yellow bark, in the same manner as cinchonine from common Peruvian bark; white, scarcely soluble in water, very soluble in ether, by which it may be separated from cinchonine, if they are mixed together.

SALICINE. The principle on which the febrifuge properties of the willow-bark depend. M. Leroux obtained it by the following process:—Boil three pounds of the willow-bark (*salix helix*) in 15 pounds of water, holding 4 ounces of subcarbonate of potash in solution; strain, and add to the cold decoction 2 pounds of fluid subacetate of lead; filter, add sulphuric acid, and precipitate the whole lead by sulphuretted hydrogen gas; saturate the excess of acid by chalk; filter again, evaporate and neutralize it by dilute sulphuric acid; remove the colouring matter by charcoal, and filter it hot; crystallize twice if the salt is coloured after the first crystallization, and dry in the shade. This process gives about one ounce of salicine. M. Leroux obtains five per cent. of the weight of the bark. It exists in the bark of many species of *salix*, as the common willow, *Salix monandra*, *S. incana*, *S. fissa*, &c. Salicine thus obtained is in small silky groups of pearly white crystals, is very soluble in water and alcohol, insoluble in ether, is extremely bitter, and smells like willow bark. This substance possesses febrifuge qualities, but not in a degree equal to sulphate of quinia. May be given in the dose of 6 or 8 grains between the paroxysms of intermittents.

SOLANINE. Filter the juice of nightshade berries, quite ripe, add ammonia; filter, wash the sediment, boil in alcohol; filter, and distil off the spirit; the solanine is left as a white powder; not soluble in water, bitter; emetic, narcotic.

STRYCHNINE. Boil rasped *nux vomica* three times in water, adding at last a very little muriatic acid, evaporate the decoction to the consistence of syrup; add fresh quick lime, 1 oz. to each 5 oz. of the *nux vomica*, strain through cloth, wash the sediment with alcohol at 22 deg. to dissolve the brucine, dry the remaining precipitate, add alcohol at 36 deg. to dissolve the strychnine, boil and evaporate about 4-5ths, the strychnine crystallizes as the alcohol cools, and may be rendered purer by dissolving again in alcohol, evaporation, and crystallization; the brucine, being more soluble in spirit, remains in solution. White, crystalline, or

granular; scarcely soluble in water; acts still more strongly on the nervous system than rosin of nux vomica; in pills, containing 1-12th or 1-8th of a grain each, cautiously and gradually increased. Magendie gives the following formula for pills of strychnia; take of strychnia 2 grains, conserve of roses $\frac{1}{2}$ gros., mix carefully, and divide the mass into 24 pills.

VERATRINE. Digest the seeds of *Veratrum sabadilla* in boiling alcohol, filter while hot; distil nearly to dryness; dissolve in cold water, filter, evaporate slowly; add a solution of acetate of lead, filter to pass sulphuretted hydrogen gas through the clear liquor, filter, evaporate a little; add calcined magnesia, filter, digest the sediment in boiling alcohol, filter and evaporate till a yellowish substance is left, which may be purified and rendered white by dissolving it in alcohol, and adding water to throw down the pure white veratrine. Errhine produces a very abundant salivation; cathartic, in doses of a quarter of a grain; in larger doses emetic, producing tetanus. Dr. Turnbull has lately published a series of cases of heart affections, various forms of neuralgia, rheumatism, paralysis, dropsy, gout, &c., in which the external application of veratria in form of ointment seemed to be followed by the most beneficial results. He directs from 10 to 20 grains of veratria to the ounce of lard, of which the size of a large nut is to be rubbed in night and morning.

GLUTINOUS MATTERS.

BLACK ELASTIC GUM, *Indian rubber, Caoutchouc, Gummi elasticum.* From *Jatropha elastica*? the milky juice being spread upon clay moulds, and dried over a fire, or torches, and formed into water-proof boots and pormanteaus, as also bottles used for holding liquids, and for syringes; very easily expanded, and becomes almost transparent by extension.

BROWN ELASTIC GUM. Dried by the air, stiff, does not expand easily.—Elastic gum softens by heat, dissolves in oils, petroleum, and ether; and is used for varnish, to make elastic catheters, bougies, and probes; and for rubbing out the traces of blacklead pencils.

URCEOLA ELASTIC GUM. Very elastic, brought from China.

FICUS INDICA GUM. Soft.—*Jack-tree gum*;—*Castilla elastica gum.* Are all elastic.

BIRD-LIME, *Viscus aucupum.* By boiling missletoe berries in water till they break, pounding them in a mortar, and washing away the branny refuse with fresh water.

HOLLY BIRD-LIME. From the bark, stripped in June or July, and boiled in water for six or eight hours, until it becomes tender; the water is then separated from the bark, which is laid in layers with fern, and left to ferment for two or three weeks, until it

forms a mucilage, which is pounded in a mortar into a mass, and well rubbed in the hands in running water, till all the refuse is worked out; the bird-lime is then put into an earthen vessel, and left for some days to purge itself. It may also be made from the bark of the wayfaring tree, and other vegetables; discutient externally; used to rub over twigs for catching birds or small animals.

SAPIUM AUCUPARIUM BIRD-LIME;—*Hippomane biglandulosa* bird-lime. Both used to catch parrots.—*Pittosporum tobira* bird-lime. Surrounds the seeds.—*Schozolana* bird-lime. Covers the fruit.

GLUTEN OF WHEAT FLOUR. Mix flour with a little water into a stiff paste as for pastry, kneading this paste in water until the starch and saccharine matter are washed out. Grey, extensible, while fresh and moist, like elastic gum: the superiority of wheat flour depends upon this substance, which turns blue when mixed with guaiacum.

OF ANIMAL ORIGIN.

ANIMAL OILS AND FATS.

Are more emollient than the vegetable oils.

GOOSE GREASE, *Adeps anseris*. From roasted geese; white, strong scent, taste agreeable, emollient, used in clysters; also an emetic, of very easy action.

EEL FAT, *Adeps anguilla*. Collected from eels while roasting; used to preserve steel from rusting.

HUMAN FAT, *Adeps hominis*. Very emollient, yellow, scentless, used in the Russian hospitals.

VIPERS' FAT, *Pinguedo viperæ, Axungia viperina*. Used in eye ointments, and to anoint the back in consumptions.

BEARS' GREASE, *Pinguedo ursi*. Yellow, strong smelling, nearly liquid, much used to make the hair grow.

VEAL FAT, *Pinguedo vitulina*. Now preferred by the perfumers, as it will keep a long time without growing rank.

HOGS' LARD, *Barrows' grease, Sain doux, Arvina, Axunge, Axungia, Adeps suilla præparata, A. præparata, A. porcina*. From the raw lard, by chopping it fine, or rather rolling it out to break the cells in which the fat is lodged, then melting the fat in a water bath, or other gentle heat, and straining it while warm: in bladders.—2. By boiling in water, and skimming it off when cold; contains water, grows rank much sooner than when melted by itself.

MUTTON SUET RENDERED DOWN, *Sevum ovillum curatum*, *S. preparatum*;—*Beef suet rendered down*. Yellow tallow, *Soap tallow*, *Sevum bovinum curatum*, *S. vaccinum curatum*, *S. præparatum*.

WHITE TALLOW. Yellow tallow melted, and a little alum mixed with saltpetre added to it, or a small quantity of nitric acid.

KITCHEN STUFF. The refuse fat of the kitchen; it is generally melted and pressed from the *graves*, or membranes.

CURRIERS' FAT. Melted stuff, boiled until it is very hard and blackish when cool.

BONE GREASE. From the refuse bones of the kitchen and slaughter-house, bruised, boiled; used to make cart grease.

HORSE FAT, *Axungia ex equi juba*. Used by enamellers for their lamps, gives out more heat than oil.

BEEF MARROW, *Medulla bovina*. Used by perfumers to make the hair grow.

DEER'S SUET, *Sevum cervinum*. Used by the gilders to put into gold size.—*Yellk of wool*, *Æsypus*. Obtained by washing raw wool in warm water.

NEATS' FOOT OIL, *Nerve oil*, *Trotter oil*, *Oleum nervinum*, *Axungia pedum tauri*. By boiling neats' feet and tripe in water; taste agreeable, does not grow hard by keeping; used to soften leather, and keep it in that state, also for frying fritters.

PORK GREASE, *Flambard*. The fat collected in boiling pork; grey, softer than hog's-lard; used in making soft soap.

GUACHARO OIL. From the guacharo bird: half liquid, transparent, scentless, and may be kept a year without becoming rank; used in cookery.

CAROLINA PIGEON OIL. From Carolina pigeons in large quantities.

STURGEON FAT, *Axungia sturionis*. Eaten as butter.

GREENLAND WHALE OIL, *Thran*, *Train oil*, *Oleum cetaceum*. From the *Balæna mysticetus*, coarse, strong smelling.

ICELAND WHALE OIL. From the *Balæna nordcaper*.—*Finfish oil*. From the *Balænoptera gibbar*.—*Sea unicorn oil*. From the *Monodon vulgaris*; finer than any other kind of whale oil.

GREAT SPERMACETI WHALE OIL, *Southern fishery whale oil*. From the *Physeter macrocephalus*, superior to the Greenland whale oil, pleasant tasted.

BLUNT-HEADED CACHOLOT OIL. From the *Physeter trumpo*; finer than the Greenland whale oil.—*Small-eyed cacholot oil*. From the *Physeter microps*.—*Porpoise oil*. From the *Delphinus pho-*

cæna; of a fine quality.—*Sword-fish oil*. From the *Delphinus gladiator*; of excellent quality.

SEA-LION OIL. From the *Phoca leonina*.—*Sea-lion fat*. From the *Phoca jubata*; resembles mutton suet.

SEAL OIL, *Axungia phocæ*, P. Suec. From the *Phoca vitulina*; brown.

SEA-COW OIL, *Elephant oil*, *Morse oil*. From the *Trichechus rosmarus*.

FISH OIL OF VARIOUS KINDS.—*Shark oil*. Imported from Iceland.—*Cod oil*, *Liver oil*, *Leber thran*, *Oleum jecinoris aselli*. From the liver of the *Gadus morhua*.—*Herring oil*. By pressing the fish when plentiful; 2 cwt. of herrings yield rather more than a gallon.—*Conger oil*. Drained from the fish before they are salted.—*Pilchard oil*. By pressing the fish.—*Father-lasher oil*. From *Cottus scorpio*.—*Stickleback oil*. From *Gasterosteus aculeatus*; obtained occasionally when the fish are very plentiful.—*Loggerhead oil*. From the Mediterranean turtle.

HEAD MATTER. From the great spermaceti whale, principally lodged in a cavity below the snout, also from the bluntheaded and the small-eyed cacholot; composed of spermaceti mixed with oil.

SPERMACETI OIL, *Sperm oil*. From head matter, by filtering through flannel, or felt. The finer kinds of whale and seal oils, forced through animal charcoal, are sold for it: used for chamber lamps, burning with but little smell.

SPERMACETI, *Blanc de baleine*, *Cetine*, *Cetaceum*. The white fatty matter left in filtering spermaceti oil from head matter, further purified by boiling a short time in a ley of subcarbonate of potash, melting it, and pouring it out into moulds, crystalline, with a cavity in the centre, lined with crystals; used as a pectoral, mixed with sugar.

FRESH BUTTER, *Butyrum insulsum*. Obtained from cream by agitation; used for food, and in ointments: by keeping it acquires a certain degree of rancidity, after which it remains unaltered; some nations prefer it in this state rather than to salt it.

CLARIFIED BUTTER, *Butyrum purificatum*. Melt fresh butter in a gentle heat, let it settle, and pour off the clear into a vessel set in cold water, to cool it immediately, without letting it crystallize: keeps long without becoming rank.

OIL OF YELKS OF EGGS, *Oleum e vitellis ovorum*. Obtained by boiling eggs hard, roasting the yolks, first broken in two or three pieces each, in a frying-pan over the fire till the oil begins to exude out of them, and then pressing them with great force; fifty eggs yield about five oz. of oil. Old eggs yield the greatest quantity.

BEES' WAX.

BEES' WAX, *Cera flava*. Forms the partitions of the cells in which bees store their honey; obtained by melting the comb; demulcent, used in diarrhoea and dysentery, made into an emulsion ℥j ter quaterve in die; from North America, Russia, Africa, Hamburgh, and the East Indies.

CEVA FLAVE PURIFICATA. Common bees' wax melted, scummed, and left to settle.

BLOCK WHITE WAX, *Cera alba in massis*. From bees' wax, by exposing it in thin flakes to the action of the sun, wind, and rain, frequently changing the surface thus exposed by remelting it, and reducing it again to thin flakes; used in making candles, and in white ointments, for the sake of its colour.

VIRGINS' WAX, *Cake white wax, Cera alba in offis*. In round thin cakes.

BEE BREAD, *Propolis*. Collected or formed by bees, for the purpose of covering the bottom of the hive, and everything in their way which is too heavy to be removed by them; it is a mixture of rosin with wax; fume antiasthmatic.

WHITE LAC, *Pe la?* *Ambra alba*, Coll. Phys. Coll.; resembles white wax, but is secreted by insects in the same manner as lac: from China.

ANIMAL RESINS.

AMBERGRIS, *Ambra grisea*. Found in the sea and in the intestines of the spermaceti whale, *Physeter macrocephalus*, mixed with the beaks of the cuttle fish; appears to be a secretion of the animal when in a morbid state, has been found in the human intestinal canal, though some still suppose it to be a fossil substance, oozing out into the sea, where, swimming about, it is sometimes swallowed by that whale; aphrodisiac, gr. iij to x; used in perfumery; when burned, smells agreeably, whence it is useful in pastilles.

BLACK AMBER, *Ambra nigra*. Of a darker colour than *ambra grisea*, but in other respects the same.

GRAIN MUSK, *Moschus in granis*. From musk pods, stimulant, antispasmodic, gr. ij to ℥ss every three or four hours in a bolus. Has the strongest smell of any natural substance hitherto known, and when used in a very small quantity, augments the smell of other substances, without imparting its own; when burned, smells disagreeably.

RUSSIAN CASTOR, *Castoreum Rossecum*. From Russia castor pods; orange brown, bitter, acrid, with a peculiar strong and unpleasant smell; antispasmodic, perhaps emmenagogue, gr. x to ℥j, in a bolus.

2. *New England castor, Castoreum novæ Angliæ.* Very different smell from the former, but sold for it.

CIVET, *Zibethum.* From civet bags, yellowish white, soft, unctuous, like honey, smell unpleasant, unless diluted: antispasmodic, but scarcely ever used alone internally; used in perfumery to augment the smell of other substances; when burned smells disagreeably; entirely soluble in oils.—*Pole-cat civet.* Sold for civet, dark colour.

RAW SILK, *Sericum.* Secreted by the *Phalena bombyx*, for its security while in the state of a pupa or grub; cordial, restorative, ʒj in powder.

COBWEB, *Tela araneorum.* Secreted by spiders to form their nets; externally styptic, internally febrifuge; used in quartan agues, dose gr. x; the cobwebs of the different kinds of spiders appear, however, to differ in their effects.

STICK LAC, *Lacca in ramulis, Lacca in baculis.* Deposited by the coccus lacca on the branches of trees.

SEED LAC, *Lacca in granis, L. in seminis.* Stick lac which has been broken off the branches, and digested in warm water by the dyers for the extraction of its colour; brownish. East Indian.

LUMP LAC, *L. in massis.* Seed lac melted into cakes.—*Shell lac, L. in tabulis.* Seed lac boiled in water, by which its colour has been extracted, and then poured upon a wet slab; transparent, lightish red. East Indian light orange, retail.—Calefacient, attenuant, aperitive, diaphoretic, diuretic; used in dentifrices, in varnishes, and to form scaling-wax.

CEYLON LAC, *L. Zeylanica.* Deposited upon the *Croton lacciferum*; is in red sticks, purer than that deposited by the coccus lacca, astringent, dyes silk red.—*Charon.* A black lac, used in the Burmah dominions for lacquer.—*Awel wruk.* A coarse lac, used in India for cement.—*Erythina lac.* Deposited upon *Erythina monosperma*.

CARMINE, *Carminum, Purpura vegetabilis.* Boil ʒj of cochineal, finely powdered, in 12 or 14 lb. of rain or distilled water in a tinned copper vessel for three minutes; then add alum gr. xxv, and continue the boiling for two minutes longer, and let it cool; draw off the clear liquor, as soon as it is only blood warm, into shallow vessels, put them by for a couple of days, by which time the carmine will have settled. In case the carmine does not separate properly, a few drops of muriate of tin, *i. e.* dyers' spirit, or of a solution of green vitriol, will throw it down immediately; the water being then drawn off, the carmine is dried in a warm stove, and should be entirely soluble in liquid ammonia. The first coarse sediment serves to make Florence lake; the water drawn off is liquid rouge.

2. Boil lb. j of cochineal powdered, and 3vj of alum in 40lb. of water, strain the decoction, add ʒss of dyers' spirit, and after the carmine has settled, decant the liquid and dry the carmine: this process yields about ʒjss; used as a paint for the ladies, and also by miniature painters.

CHEESE, Caseus. Separated from milk by the addition of rennet, or the juice of rubiaceous and some other plants, and subsequent straining; for the purpose of keeping it, it is generally salted and pressed. There are many varieties of it, arising from the addition of cream to the milk, or its subtraction from the milk, the separation of the whey with or without compression, the salting of the curd, the breaking of the curd, or not, before pressure, the making with pressure or without, the colouring with saffron or annatto, the keeping, &c.

DISTILLED ANIMAL OILS.

OIL OF HARTSHORN, *Oleum cornu cervi.* From harts' horns.

DIPPEL'S OIL, *Animal oil, Rectified oil of hartshorn, Oleum Dippelii, O. animale, O. cornu cervi rectificatum.* From oil of hartshorn, by a slow distillation, in a retort no bigger than is necessary, and saving only the first portion that comes over; very fine and thin, and must be kept in an opaque vessel, or in a drawer or darker place, as it is quickly discoloured by light; antispasmodic, anodyne, diaphoretic, gtt. x—xxx in water; externally stimulant.

OIL OF BONES, *Oleum ossium.* Very fetid, burnt in lamps for making English lamp-black, and also used for lighting mines.

BUTTER OF WAX, *Butyrum ceræ.* Distilled from bees' wax: concrete.

OIL OF WAX, *Oleum ceræ.* From butter of wax, by redistillation: liquid.

OF MINERAL ORIGIN.

MINERAL OILS.

NAFTA, *Naphtha, Oleum petræ album.* Pale yellow, fine, thin, very inflammable; found in Persia, Italy, and other places.

ARTIFICIAL NAFTA. From coal tar, by distillation; used for lamps.

OIL OF PETRE, *Rock oil, Huile de Gabian, Petroleum, Oleum petræ.* Red or brown; found in Persia, France, and other places.

COAL OIL, *Petrol.* Floats on the water in which coal-gas gasometers are placed; from coal-tar by distillation; used for lamps.

BARBADOES TAR, *Pisseleon Indicum*, *Petroleum Barbadosense*, *Bitumen*, *Petroleum*. Dark, very thick, semi-liquid; found in Trinidad and other places.

JEW'S PITCH, *Asphaltum*. Pitch black, hard, strong-scented; found in Syria and other places; used in varnishes.

ARTIFICIAL ASPHALTUM. Left in distilling Barbadoes tar, or coal tar.

AMBER, *Succinum*, *Carabe*. Found in Prussia. The whitest, being the cheapest, is preferred for medical use; balsamic in powder, ʒj to ʒj in gonorrhœa and the whites: the transparent kinds are used in jewellery, and the coarser are distilled for oil of amber; also used to make oil varnish.

OIL OF AMBER, *Oleum succini*, P. L. before 1809. Distilled from coarse pieces of amber, which are not fit for jewellery; stimulant, antispasmodic, externally discutient, rubefacient; used in rheumatism, hooping-cough, and paralytic limbs. The following is recommended as a friction in tic douloureux.—*Olei succini fl. unciam, tinct. opii fl. semunciam. Miscæ. Official preparatiōns.*—*Spiritus ammoniæ succinatus.*

RECTIFIED OIL OF AMBER, *Oleum succini rectificatum*, *O. succini*, P. L. since 1809. Oil of amber redistilled twice.

BALSAM OF AMBER, *Balsamum succini*. The thick oil left in rectifying oil of amber.

OLEUM PETROLII BARBADENSIS. Distilled from Barbadoes tar by the retort, in a sand heat; blue when viewed with the back to the light, and orange when placed between the eye and the light.

COAL TAR. Distilled from fossil coals; used as a coarse cheap varnish.

ARTIFICIAL MUSK, *Moschus fictitius*, *Resina succini*. Rectified oil of amber one part, nitric acid four parts; digest, a black matter is deposited, to be well washed in water: smell similar to that of musk or ambergris, and may be used for them in medicine.

V. SIMPLE COMBUSTIBLES.

CHARCOALS.

CHARCOAL varies in its qualities according to the substance from which it is prepared; that of the soft woods, as the willow or alder, is best for crayons, and for making gunpowder; that of the harder

woods is used for fuel, or for a support for substances exposed to the flame of a blowpipe. Charcoal of animal substances has the greatest clarifying power. Charcoal made by a low red heat, not exceeding cherry red, has a dull surface, and is best for clarifying liquids, and probably for making gunpowder, or for fuel. If the heat is carried beyond this point, the charcoal acquires a brilliant surface, and is considerably inferior for clarifying, and, probably, for every other use.

OAK CHARCOAL, *Beech* [charcoal, *Hazel charcoal*. Pile-burned are those commonly sold in London for fuel.

WILLOW CHARCOAL, *Carbo ligni*. Pile-burned is sometimes found mixed with the common charcoal, and picked out for crayons, to polish copper plates, tooth powder, and to put into poultices to correct fetid ulcers; also as an alterative in chronic costiveness.

ALDER CHARCOAL;—*Dog-wood charcoal*;—*Spindle-wood charcoal*. Distilled in iron cylinders for making gunpowder: they must not be allowed to absorb the vapour contained in the receiving-vessels.

CHESTNUT CHARCOAL. Burns slowly, and if blown, deadens immediately upon the blast being stopped; used by smiths for forging.

ARECA NUT CHARCOAL. Vaunted as a dentifrice; willow charcoal is sold for it.

CHARCOAL DUST. The dust collected from the scuttles, used to reduce metallic oxides and similar purposes.

VEGETABLE CHARCOAL, *Charbon vegetable*. Charcoal dust ground with water; used to clarify liquids.

BEECH BLACK, *Blue black*. Beech wood burned in close vessels; ground with white lead and oil produces a bluish-grey colour; used as paint.

FRANKFORT BLACK. Made of the lees of wine, or argol, well washed and ground with water: used to make printers' ink.

NOIR D'ESPAGNE, *Suber ustum*. Made of cork burnt in close vessels; used as a colour in painting.

PEACH-STONE BLACK. Peach stones, and the nuts of other stone fruits, as cherries, burnt in close vessels; ground with white lead and oil it produces the colour called old gray.

VINE-TWIG BLACK. Vine twigs burnt in close vessels; bluish-black; ground, mixed with white lead and oil, it produces a silver white colour.

RICE BLACK. From burnt rice; is deficient in colour.

SUGAR BLACK. From sugar burned to a coal; deficient in body, but a warm colour for washing; works very free, and equal in mellowness to Indian ink.

WHEAT BLACK. From wheat burned to a coal; superior to lamp black, and equal to ivory black; dries well and hard in eight hours with boiled oil only; covers the ground well in one colouring.

BURNT SPONGE, *Spongia usta.* The sponge being cut to pieces, is well beaten to separate the sand it contains, and which makes up the far greater part of its weight, and is then burnt in a close vessel until it is black and friable; used in bronchocele and scrofulous complaints; ʒj—ʒiij in an electuary, or in lozenges held under the tongue.

VEGETABLE ÆTHIOPS, *Pulvis quercus marinæ.* From fucus vesiculosus, or bladder wrack, burned in a close vessel till it is black and friable: in bronchocele, &c., as the preceding; also prepared from the pila marina.

IVORY BLACK, *Cologne black, Cassel black, Ebur ustum nigrum, Spodium.* From ivory shavings, or dust, heated in covered iron pots; used as a dentifrice and a paint; with white lead forms a beautiful pearl-grey colour.

HARTSHORN BLACK, *Cornu ustum nigrum.* Left in distilling hartshorn for the spirit.

BONE BLACK, *Animal charcoal, Charbon animal, Noir animal.* The residuum left after the distillation of bone; reddish; used for making blacking for leather, for moulding delicate founders' work, for clarifying liquors, and for abstracting the lime used in making sugar from the syrup.

FINE BONE BLACK, *Noir de Paris.* From turners' bone dust, burned in covered iron skittle crucibles, and ground dry. Sold for ivory black, and, when finally levigated, for burnt lamp black.

FINK CHARCOAL. From finks; used for clarifying.

PRUSSIAN BLUE MAKERS' BLACK, *Noir de composition.* The residuum from whence the prussiate of potash has been alixivated; that of the manufactories which use dried blood clarifies far better than bone black, or than that of the manufactories that use hoofs.

KILN-MADE COKE, *Stified coke.* From coal burned in a pile or open kiln; dull black; used as fuel, produces a very strong heat.

GAS COKE, *Distilled coke.* The remains of the coals used in making gas for lights; bright-grey, produces only a weak heat, not sufficient to smelt iron.

CHARBON MINERAL. From bituminous slate, burned in

covered iron pots, black, easily friable; used to clarify liquids, but is considerably inferior to bone black, and does not abstract the lime from syrup.

RUSSIAN LAMP BLACK, *Noir d'Allemagne*. Made by burning the chips of resinous deals, made from old fir trees, in tents, to the inside of which it adheres; mixed with linseed oil, is apt to take fire by itself; used as a paint.

BURNT LAMP BLACK. Lamp black heated in a covered iron pot to get rid of its greasiness: used as a water-colour; fine bone black is sold for it.

LAMP BLACK, *Fuligo lampadum*. From distilled oil of bones burnt in lamps, with a long smoking wick: does not take fire with drying oils.

WOOD SOOT, *Fuligo ligni*. Collected from chimneys, under which wood is burnt for fuel; contains sulphate of ammonia; bitter, antispasmodic.

BISTRE. From wood soot, or peat, by pulverization and washing over; an excellent brown water-colour, superior to Indian ink for drawings, when they are not intended to be tinted with other colours.

COW-DUNG SOOT. 26lb. yield, by sublimation, 6lb. of grey sal ammoniac.

SOOT BLACK. The soot of coal fires, sifted, used as a coarse black colour for making grey mortar.

SULPHURS.

BRIMSTONE.

NATIVE SULPHUR. *Rock sulphur*, *Prismatic sulphur*, *Sulphur nativum*, *Sulphur vivum citrinum*. Found near volcanoes, fine yellow colour, burning away entirely, leaving no fæces; used by silversmiths.—*S. vivum*, *S. nativum griseum*. Found near Mount Vesuvius, grey, burns with a blue flame when heated, but the flame soon goes out, earthy; principally used for the manufacture of brimstone and alum.

ROUGH BRIMSTONE, *Brimstone*, *S. factitium*, *S. citrinum*. Obtained by sublimation or by eliquation from pyrites and the other minerals containing sulphur; yellow; sold for *S. vivum citrinum*: from Italy.—*S. v. griseum*. Grey, impure.

ROLL BRIMSTONE, *S. in rotulis*, *S. rotundum*. Brimstone, purified by redistillation, and poured into moulds; from Italy.

HORSE BRIMSTONE, *Dregs of sulphur vivum*, *S. caballinum*, *Sulphuris vivi recrementa*. The fæces left in the purification or sublimation of sulphur; very impure; used in external application to the inferior cattle: sold for *S. vivum griseum*.

FLOWERS OF SULPHUR, *Flores sulphuris*, *Sulphur sublimatum*. From brimstone, by sublimation, into large chambers built for the purpose; pulverulent.

WASHED FLOWERS OF SULPHUR, *Flores sulphuris loti*, *Sulphur sublimatum lotum*. The common flowers washed with water to get rid of the acid.

Sulphur is laxative, propelling the fæces with very little stimulus to the system; useful in piles, ℥ss to ʒj, nocte manequæ; diaphoretic, communicating its peculiar smell to the sweat; used internally, and externally in ointments, as a specific in the itch and other cutaneous affections; its suffocating fume, while burning, is used to whiten linen, straw bonnets, &c., and to kill bees and other insects; equivalent, 2.

MILK OF SULPHUR, *Lac sulphuris*. Sulphur 1lb., quicklime or subcarb. of potash 3lb., boil in a sufficient quantity of water, add dilute sulphuric acid q. s., and wash the sediment.—*S. precipitatum*. Sulphur 1lb., fresh burned lime 2lb., boil in water 4 gall., filter, adding muriatic acid q. s., and wash the sediment till it is insipid; used internally in preference to the flowers, probably contains water.

LIVER OF SULPHUR, *Hepar sulphuris*. Brimstone in powder 1lb., subc. of potash 3lb.; melted together in a covered vessel.

SULPHURET OF POTASH, *Kali sulphuretum*, *Potassæ sulphuretum*, P. L. 1809. Flowers of sulphur ʒj, subc. of pot. ʒv; melt together the proper proportion according to theory, 2 sulph. with 5 potassium, (from 11 subcarb. potash) equiv. 7—*Potassæ sulphuretum*, P. L. 1815. Fl. sulph. ʒj, subc. of pot. ʒij, melt.—*Sulphuretum kali*, *Sulphuretum potassæ*, P. E. Fl. sulph. subc. pot. ana p. æq.: mix and melt: expectorant, diaphoretic; used in catarrh and cutaneous affections; dose gr. x to xv; proposed as an antidote to arsenic, but of doubtful utility.

LIQUID LIVER OF SULPHUR, *Aqua sulphureti kali*. Flowers of sulphur ʒss, liq. potassæ ʒix; boil for ten minutes, filter, and keep in well-closed vials; used as an antidote to mineral poisons: externally in tinea and the itch.

BOYLE'S FUMING LIQUOR, *Tinctura sulphuris volatilis*;—*Aqua sulphureti ammoniæ*. Fresh burned lime ʒiv, water ʒij; slake, and when cold, add sal ammoniac ʒiv, flowers of sulphur ʒij; distil; used as a proof liquor for wine, but it requires the precipitate to be examined, by fusion, whether it be really lead.

IODURET OF SULPHUR. Take of iodine four parts, sublimed sulphur one part, mix and heat gently in a bottle: the excess of iodine is separated, and the ioduret remains as a grey, needled mass which rapidly absorbs moisture and soon decomposes. Mr.

Biett used an ointment formed of this and lard in tubercular affections of the skin.

PHOSPHORUS.

PHOSPHORUS OF URINE, *Kunckel's phosphorus*, *Phosphorus urinæ*, *P. Kunckelii*. From urine putrified and distilled in an iron pot, with a glass or stoneware head; the residuum taken out, ground, put into small earthen retorts, and distilled with a very violent heat into water.

2. By pouring a solution of sugar of lead into urine, which precipitates a white powder, to be mixed with charcoal powder, and distilled with a violent heat into water.

3. Mix bone-ash 15lb., with 3 gall. of water, add oil of vitriol 6lb.; the next day add more water, strain through a sieve, and wash the sediment well with hot water; evaporate the waters mixed together to the consistence of a syrup, add charcoal dust sufficient to absorb it, and distil into water.—Inflammable at a very low heat, and therefore it must be kept under water; purified by being kept in fusion in a glass tube under water until the impurities have settled; principally used as an easier and speedier method of procuring fire than the common; also used to analyse atmospheric air, and to form phosphoric ether: equivalent 1·5.

VI. METALS.

METALLIC SULPHURETS AND SIMILAR COMBINATIONS.

ANTIMONY.

CRUDE ANTIMONY, *Eyes medicine*, *Prismatoidal antimony glance*, *Surmach*, *Antimonium crudum*. Found in mines, in long needles, formerly preferred for medical and chemical use.

SMELTED ANTIMONY, *Antimony*, *Sulphuret of antimony*, *Antimonium fusum*, *Antimonii sulphuretum*. From crude antimony, by fusion and pouring into conical moulds; diaphoretic, used in rheumatism, scrofula, and cutaneous diseases as an alterative, ℥j to ʒj; given largely to horses, mixed with their food, to smooth their coats; used in the arts to purify gold, and by the ladies, to paint their eyebrows and eyelashes black; composed of 5·5 antimony with 2 sulph. equi. 7·5.

MEDICINAL REGULUS OF ANTIMONY, *Antimonium medicinale*,

Regulus antimonii medicinalis. Common antimony 5 oz., subcarb. of potash 1 oz., common salt 4 oz.; powder, mix, melt; when cold, separate the scorixæ at top, powder the mass, and wash it well: more active than common antimony; used in some unknown nostrum.

ANTIMONIUM MEDICAMENTOSUM. Common antimony 5 oz., common salt 4 oz., nitre and argol ana 1 oz., mix, melt, grind, and wash well; used in some unknown nostrum.

LIVER OF ANTIMONY, *Hepar antimonii.* Common antimony 2lb., potash 4lb.; mix and melt; emetic, in doses of gr. iij to vj, but mostly used as a violent purge for grease in horses' heels, and for preparing sulphur baths for disorders of the skin, by adding an acid.

2 Antimony, saltpetre, ana 1lb., deflagrate and melt together.

KERMES MINERAL. Common antimony finely ground, 4lb., subcarb. of potash 1lb., soft water 2 gall., boil for half an hour, filter, cools very slowly; the kermes settles as it cools; the antimony left upon the filter may be boiled again several times with fresh subc. of potash and water. Composed of 6.5 protox. ant. with 2.125 sulphuretted hydrogen, equiv. 8.625.

2. Common antimony 16 oz., subcarb. of potash 8 oz., flowers of sulphur 1 oz.; mix, melt together, pour out; when cold, reduce the mass to powder, and boil in water q. s., filter while hot; the kermes precipitates as the water cools, and is to be well washed.

CLUZELL'S KERMES. Prepared common antimony ʒss, subcarb. of soda ʒx, distilled water a gallon; boil for half an hour, filter, let it settle, wash the precipitate with cold water which has been recently boiled, dry the precipitate by a heat of 90 deg. Fahr. folded up in glazed paper to keep the air and light from it; produces a very dark crimson powder, of a smooth velvety appearance. This preparation occupies in foreign practice the place of our James's powder, in doses of gr. ss to iij, as a diaphoretic, cathartic, and emetic.

GOLDEN SULPHUR OF ANTIMONY, *Sulphur auratum antimonii.* After the alkaline liquor has deposited the kermes mineral, add any acid, generally the acetic, to throw down the golden sulphur; by adding the acid in separate portions, the precipitate may be obtained of different colours and strength, the first being redder and stronger, the latter yellow and weaker. It may be used as kermes mineral, but requires a double or treble dose.

SULPHUR ANTIMONII PRÆCIPITATUM, P. L. 1788, *Antimonii sulphuretum præcipitatum*, P. L. 1809. Common antimony powdered 2lb., subcarb. of potash water 4lb., water 3lb.; boil for three

hours, strain while hot, and add immediately dilute sulphuric acid to precipitate the sulphur; wash and dry.

SULPHUR ANTIM. FUSCUM. Common antimony, subcarb. of potash ana 1 oz.; melt together, powder, and dissolve in water 4lb.; let it cool; when cool, add dilute sulphuric acid q. s. to precipitate the remainder of the sulphur, agitate the mixture, that this last precipitate, which is yellow, may be mixed with the other; wash and dry. Both these are mixtures of kermes mineral with golden sulphur of antimony, and, therefore, to be esteemed inferior to the former: dose, gr. j to v.

ARSENIC.

ORPIMENT, *Prismatic sulphur, Sesquisulphuret of arsenic, Hurtall, Yellow sulphuret of arsenic, Auripigmentum.* Found in mines, yellowish green, with brilliant gold-coloured spangles; used by painters; caustic, composed of 4·75 black arsen., with 3 sulph. equiv. 7·75.—*King's yellow, Hartal.* From orpiment, by sublimation; from China, Japan, and the Burman empire.

YELLOW ARSENIC, *Yellow sulphuret of arsenic, Arsenicum flavum, A. citrinum.* Made of 75 to 90lb. white arsenic, rough brimstone 10lb., by sublimation, or by distilling 100lb. arsenical pyrites with 10lb. of iron pyrites. From Germany.

REALGAR, *Red arsenic, Chinese vermilion, Mansil, Hemiprismatic sulphur, Red sulphuret of arsenic, Resigallum, Sandaracha Græcorum, Auripigmentum rubrum.* In mines; fine red colour, like vermilion; used also by painters; composed of 2 sulphur and 4·75 of black arsenic, equiv. 6·75. Made into cups, in which the juices of acid fruits being left become cathartic. From Japan and the Burmah dominions.—*Mauocillei.* A coarse red orpiment, sold in Lower India for a paint.

RED ARSENIC, *Red sulphuret of arsenic, Arsenicum rubrum factitium.* From arsenical and sulphureous pyrites distilled together, or from powdery white arsenic, 3½ cwt. sublimed with ½ cwt. rough brimstone; the sublimate is afterwards melted and ladled into moulds. From Germany.

MAGNES ARSENICALIS. Sulphur, white arsenic, and common antimony, of each 1lb.; mix by fusion: corrosive.

IRON.

IRON PYRITES, *Brass balls, Horse gold, Copperas balls, Hexahedral iron pyrites, Bisulphuret of iron. Native sulphuret of iron, Pyrites ferri.* Brass yellow, in balls or crystallized; collected for the manufacture of green vitriol. By exposure to the weather they are decomposed into a saline powder, from whence the vitriol

is extracted by elixiviation and crystallization. Comp. of 3·5 iron, with 4 sulph., equiv. 7·5.

CHALYBS CUM SULPHURE PRÆPARATUS. With a red hot bar of steel melt a roll of brimstone, so that it may fall into a vessel of water; separate the brimstone which falls at the same time into the water, and reduce the chalybs into a fine powder.

SULPHURET OF IRON. By melting iron filings, or scales of iron and brimstone $\frac{p. \text{æq.}}$ in a covered crucible; melts easily, and takes sharp casts.

SULPHURETUM FERRI. Iron filings 6 oz., flowers of sulphur 2 oz.; mix together, and melt in a covered crucible. Used in preparing hepatized ammonia.

BLACK LEAD, *Rhombohedral graphite-mica, Carburet of iron, Per carbure de fer, Plumbum nigrum, Cerussa nigra, Plumbago, Graphites.* Found in mines; derives its name from its colour, composed of 92 parts iron and 8 charcoal; used for pencils, crayons, and the coarser sort to give a metallic lustre to other bodies, or to diminish the friction, in cases where grease or oil would be improper.

LEAD.

POTTER'S LEAD ORE, *Sulphuret of lead; Galena.* Found in mines, breaks in cubes; used by the potters in glazing earthen vessels.

QUICKSILVER.

NATIVE CINNABAR, *Peritomous rubyblende, Bisulphuret of quicksilver, Durdar, Cinnabaris.* Found in mines; liable to be confounded with realgar, or red arsenic; composed of 25 quicksilver, with 4 sulph., equiv. 29. From Surat, China, and Batavia.

DUTCH VERMILION, *Sulphuretum hydrargyri rubrum, P. E. Cinnabaris factitia.* By grinding 170lb. of quicksilver and 50lb. of brimstone together, throwing the mixture by ladlesful into heated earthen sublimers, where it takes fire; the superfluous sulphur being consumed, the mouths of the vessels are then covered with tiles, which stops the conflagration, and the sublimation commences, which is continued until the whole is risen up. From Holland.

HYDRARGYRUS SULPHURATUS RUBER, *Sulphuretum hydrargyri rubrum, P. D., P. L., 1809.* Quicksilver 40 oz., sulphur 8 oz., sublime: diaphoretic; used in cutaneous diseases and gout, also as a vermifuge, gr. x to 3ss: externally, 3ss, thrown upon a red hot iron, is used as a fumigation to check the progress of venereal ulcers in the throat, nose, or mouth; totally volatile by heat, communicates no colour to spirit of wine.

SULPHURET OF QUICKSILVER? *Cinnabaris antimonii*. Obtained as a secondary product in the making of butter of antimony, by raising the fire after the butter has come over.

2. Quicksilver 15lb., rough brimstone, 5lb., common antimony 1lb. and a half; mix and sublime: brown red. Perhaps composed of 25 quick. with 2 sulph., equiv. 27.

TIN.

AURUM MUSIVUM, *Bisulphuret of tin, Aurum mosaicum*. Quicksilver, tin, sulphur, sal ammoniac, ana p. æq., the tin being first melted, the quicksilver poured into it, and then the whole ground together, and sublimed in a bolt head: the Aurum musivum lies at the bottom; composed of 7·25 tin, with 4 of sulph., equiv. 11·25.

2. Dissolve tin in muriatic acid, precipitate by subcarb. of soda, mix the precipitate with half its weight of sulphur, and sublime.

3. Tin filings, sulphur, sal ammoniac, ana p. æq.; sublime. In these sublimations, if the fire is too great, only a grey sulphuret of tin is obtained. Used as a metallic gold colour in varnish work and sealing-wax.

METALS.

GOLD.

GRAIN GOLD, *Aurum*. Cupelled gold melted with sufficient silver to form only 1-4th of the mass, granulated by being poured from on high in a small stream into water, the silver dissolved away by nitric acid, and the grains heated to give them their proper lustre. Used to make preparations of gold; equivalent 25.

GOLD LEAF, *Aurum foliatum, Aurum in libellis*. Used to gild pills and other substances.—*Party gold*. Gilt silver hammered into leaves.

SHELL GOLD, *Aurum in musculis*. Grind the cuttings of gold leaf with thick gum water, and spread the ground gold on colour shells.

GOLD POWDER, *Aurum pulveratum*. Grain gold, 1 oz., quicksilver, nearly boiling, 6 oz.; rub together; distil off the quicksilver, or corrode it away with spirit of nitre, and heat the black powder that is left to redness.

2. Grain gold 1 oz. dissolve in aqua regia; add to the clear solution green vitriol 4 oz. dissolved in water: wash the precipitate, and heat it to redness. Used in painting, gilding, &c.

SILVER.

REFINED SILVER, *Argentum cupellatum*. Silver cupelled with a sufficient quantity of lead to scorify the copper mixed with it. Used to make preparations of silver.

PURE SILVER. Dissolve refined silver in nitric acid, add a solution of salt as long as any sediment falls; boil the sediment while still moist, along with water in a bright iron vessel; wash and dry the silver. Equiv. 13·5.

SILVER LEAF, *Argentum foliatum*. Used to cover pills and other substances.

SHELL SILVER, *Argentum in musculis*. Grind the cuttings of silver leaf with strong gum water, and spread it in muscle shells. Used for writing silver-coloured letters, but tarnishes, and is inferior to argentum musivum, unless varnished over.

SILVER DUST, *Crocus argenti*. Add slips of copper to a solution of silver in spirit of nitre, and wash the precipitated metal with spirit of wine: used in japanning.

QUICKSILVER.

QUICKSILVER, *Quik*, *Mercury*, *Argentum vivum*, *Mercurius*, *Hydrargyrus*, *Hydrargyrum*. Found native, but mostly extracted from the native sulphurets. Given in obstinate costiveness to the extent of lbj or lbjss, in hopes of forcing a passage by its weight. Used by water-gilders to dissolve their gold, by looking-glass makers to soften their tinfoil, by barometer and thermometer makers for their instruments, and in some other arts. Imported from Idria through Holland and Italy; from Spain, Nepaul, and Japan.

PURIFIED QUICKSILVER, *Argentum vivum purificatum*, *Hydrargyrus purificatus*, *Hydrargyrum purificatum*. Distil it from an iron vessel. The imported quik is so pure, and any adulteration, if attempted, so readily discoverable by workmen accustomed to handle it, that this operation is superfluous.

2. Strain the quik that has been used by looking-glass makers through chamois leather. Used by apothecaries, when it can be got cheap, to make blue pill and mercurial ointment.

3. Distil Dutch vermilion and iron filings of each 1lb. into water; equiv. 25.

COPPER.

SHEET COPPER, *Cuprum*. This, like pewter, is used for making many pharmaceutical vessels, which are generally tinned on the inside: these vessels have been proscribed by the colleges upon insufficient grounds, since, like lead, it cannot be dissolved while

tin is co-existent in the mixture. When acids are boiled in vessels, part of whose tin lining is abraded, the acids take up some of the tin, and deposit it on the abraded part, thus repairing the damage in the same manner as brass pins are tinned, by boiling with tin filings and cream of tartar. Acid syrups and stews are and have been prepared for centuries in untinned copper vessels without any ill effects, although in gentlemen's houses and elegant inns they have occasionally produced of late direful effects: but the common cooks use only pewter spoons for stirring, and by leaving them in the liquid, render the acids ineffective upon copper, which effect is not produced by the silver spoons of superior establishments. Although the salts of copper are violent emetics, yet ʒj of filings has been taken against the rheumatism; and Rouelle used to exhibit in his lectures a lock of green hair he had himself cut from the head of an aged founder, who had much used that remedy. Equiv. 4.

BEAN-SHOT COPPER. In small lumps, like peas or kidney-beans. Made by pouring a thin stream of melted copper into boiling water.

FEATHER-SHOT COPPER. In small thin rounds, with a feathered edge; by pouring the copper into cold water. Both are used for making solutions of copper.

BRONZE POWDER, *Aurum sophisticum.* Verdigris 8 oz., tatty 4 oz., borax, nitre, ana 2 oz., corrosive sublimate ʒij, made into a paste with oil, and melted together: used in japan work as a gold colour.

IRON.

IRON FILINGS, *Ferri limatura.* Tonic and astringent; used in chlorosis, gr. v—x, bis terve in die.—*Iron turnings, Ferriamenta, F. scobs.*—*Iron wire, Ferri fila.* Only used in preparations, being the purest, which alone can be drawn into wire; equiv. 3.

STEEL, *Chalybs, Mars.* Made from iron, by stratifying or melting it with charcoal, of which it takes up a minute portion: the filings are sometimes used as a stimulant and tonic; also in fireworks.

LEAD.

GRANULATED LEAD. By melting new lead, pouring it in a small stream, from an iron ladle with a hole drilled in its bottom, into a pail of water; equiv. 13.

LEAD DUST, *Pulvis Plumbi.* By melting new lead, adding bruised charcoal, and diffusing the lead among it, then pounding and washing away the charcoal; used by potters.

PEWTER. Lead hardened with tin, and in the best kinds with

antimony. Used for making vessels, which have been proscribed by the colleges. Proust, however, has shown (Journ. de Phys. for 1806) that acids boiled in pewter vessels took up none of the lead, which they will not touch while tin is present; that when even a solution of sugar of lead was boiled in a pewter vessel, the lead was precipitated in its metallic state, and tin extracted from the vessel: lemon juice, diluted with water, left for a day and a night in the coarsest pewter vessels, did not dissolve an atom of lead, but acted only on the tin.

TIN.

GRAIN TIN. From the native oxide of tin collected in the Cornish stream works; equiv. 7·25.

TINFOIL, *Stannum foliatum, Stanniolum.* In thin leaves; used for ornament and to cover the hind surface of looking-glasses, being softened with a small quantity of quicksilver, which is afterwards pressed out of it by heavy weights.

TIN FILINGS, *Limaturæ stanni*;—*Powder of tin, Pulvis stanni.* Melt grain tin in an iron mortar, and stir it, while cooling, until it becomes a powder, then sift it.

GRANULATED TIN, *Stannum granulatum.* Melt grain tin, and pour it into a wooden box rubbed on the inside with chalk, put on a cover that fits close, and shake it violently, till the metal is reduced to powder; wash off the chalk, and dry the grain. Vermifuge, in doses of ʒij—ʒss.

SPELTER.

SPELTER, *Zinc, Zincum.* From lapis calaminaris, mixed with charcoal and distilled; or sublimed, as a secondary product, in the fusion of some German ores; used to produce galvanism, and in fireworks; equiv. 4·25.

AMALGAM OF ZINC, *Amalgama zinci.* To zinc 2 oz., heated in a crucible, add quicksilver 5 oz., also heated. Used to spread upon the rubbers of electrical machines.

BISMUTH.

TIN GLASS, *Bismuth, Etain de glace, Marcasita argentea.* Eliquated from its ores. Used in metallic mixtures to communicate fusibility; also in powder, as an imitation of silver for writing and painting; equiv. 9.

FUSIBLE METAL. Bismuth 2 oz., lead 5 oz., tin 3 oz., melted together; melts in boiling water. Used to write on asses' skin, or paper prepared by rubbing burnt hartshorn into it; also for toy-spoons, to surprise children by their melting in hot liquors.

SMITH'S SOLDER FOR TIN. Lead, tin, of each 4 oz., bismuth 8 oz.; will melt in boiling water.

ONION'S FUSIBLE METAL. Lead 3 oz., tin 2 oz., bismuth 5 oz.; melts at 197 deg. Fahr.

ARGENTUM MUSIVUM. Bismuth, tin, ana 2lb.; melt together, and add quicksilver 1lb.: brittle; used as a silver colour.

ANTIMONY.

REGULUS OF ANTIMONY, *Regulus, Antimony, Stibium, Regulus antimonii.* From common antimony, saltpetre, and argol, ana p. æq., pulverized, injected by degrees into a red hot crucible, and melted; the regulus settles at the bottom; equiv. 5·5.

2. Common antimony 16 oz., tartar 12 oz., nitre 6 oz.; melt, and pour out into a melting-cone; when cold, separate the regulus, and if required to be very pure, remelt it once or twice; throw upon it, whilst in fusion, 1 oz. of nitre, and keep it melted for a quarter of an hour.

3. Common antimony, 16 oz., calcine in a shallow vessel till no sulphureous vapour arises from it, taking care it does not melt, which requires 10 hours at least; it yields 12 oz., 3 dr., 24 gr., of calx; mix this with as much soft soap, and melt: produces 9 oz., 6 dr. 54 gr. of regulus.

MARTIAL REGULUS OF ANTIMONY, *Regulus antimonii martialis, R. a. stellatus.* Upon 1lb. and a half of small nails heated to redness in a crucible, throw a mixture of 1lb. common antimony, 4 oz. nitre, and 2 oz. tartar: melt and pour out, separate the regulus, and remelt it three or four times, throwing upon it each time 2 oz. nitre.—Regulus is used to form small cups, in which wine, being let to stand for a night, becomes emetic, or balls are made of it, which are infused in wine for the same purpose; also to harden lead, and thus make a compound metal fit for the best kind of pewter and for printers' types.

REGULUS JOVIS. Made by melting regulus of antimony with tin, generally in equal quantities, and casting it into the form of a cup, for rendering wine emetic; is less brittle than the pure regulus. These metals, mixed in various proportions, are used for making mirrors, medals, &c.

COBALT.

COBALT, *Regulus of cobalt.* Wash zaffre 1lb., by which means about 5 or 6 oz. of calcined quartz, or sand, may be separated from it; mix the washed zaffre with soft soap, and melt it with a violent heat; produces about 3 or 4 oz.; equivalent 3·25.

2. Roast Cornish bright white cobalt ore, then smelt the oxide with twice as much soft soap.

ARSENIC.

BLACK ARSENIC, *Metallic arsenic, Regulus of arsenic, Arsenic, Arsenicum nigrum, Regulus arsenici*. From powdery white arsenic distilled with charcoal dust and some iron or lime to hinder any sulphur from rising. Used to whiten copper; equivalent 4.75.

COBALT, *Mort à mouches, Fliegen stein*. A mixture of black and white arsenic collected in the neck of the distilling vessels in making black arsenic: sold to poison flies.

NICKEL.

SPIESS. A metallic compound that collects at the bottom of the pots in making smalt; used to make nickel.

WHITE COPPER, *Pak fong, Tutenague*. A compound metal brought from China; contains 15 nickel, 28 spelter, and 21 copper, malleable.

METALLIC OXIDES.

GOLD.

PURPLE PRECIPITATE, *Cassius' purple, Præcipitatum Cassii*. Solution of gold in aqua regia, 1 oz., distilled water 1lb. and a half; mix, and hang in the liquid slips of tin.

2. Precipitate a dilute solution of gold by a dilute solution of muriate of tin, with a slight excess of acid. Used to communicate a purple colour to glass, when melted in an open vessel: in a close vessel the glass receives no colour.

CROCUS OF GOLD, *Oxide of gold, Crocus solis*. Dissolve gold in aqua regia made of common salt, add subcarb. of potash q. s. to precipitate the whole. Used in venereal and scrofulous complaints: also to colour glass purple, but it is difficult to produce by either of these means an equable colour. If heated strongly, it recovers its metallic lustre, and may be used for true gold powder. The gold that remains in the solution being nearly one-half, is separated by adding a solution of green vitriol.

QUICKSILVER.

ÆTHIOPS PER SE. By shaking quicksilver in a large bottle, or by triturating it with water; pulverulent, black.

HYDRARGYRI OXYDUM CINEREUM, P. L. Boil calomel ʒj in a gallon of lime-water; wash the grey sediment with water, and dry it. Comp. of 25 quicks. and 1 oxyg.; equiv. 26.

PROTOXIDE OF QUICKSILVER, *Pulvis hydrargyri cinereus*. Quicksilver ʒij, dilute nitric acid ʒij, distilled water ʒviiij, aqua

subcarbonatis ammoniæ q. s. (about 3jss), to precipitate the oxide: wash and dry.

OXIDUM HYDRARGYRI CINEREUM, P. E. Quicksilver 3iv, dilute nitric acid 3v, distilled water 3xv, aqua subcarbonatis ammoniæ q. s. Dissolve the metal in the acid, dilute the solution with the water, precipitate with the alkali: wash and dry the precipitate. Totally different from the London oxide of the same name: all these are used in syphilis, and are not apt to disorder the stomach and bowels. Dose gr. j—ij, bis in die.

CALCINED MERCURY, *Precipitate per se, Peroxide of quicksilver, Mercurius præcipitatus per se, Mercurius calcinatus, Hydrargyrus calcinatus, Hydrargyri oxidum rubrum, Oxidum hydrargyri.* By exposing a thin stratum of quicksilver to the action of heat sufficient to keep it boiling, in a flat-bottomed matrass, called Boyle's hell, contrived to admit air without letting the vapour of the quicksilver escape. In red scales, darker than red precipitate; may be used for the same purposes. Comp. of 25 quicks., 2 oxyg.; equiv. 27.

RED PRECIPITATE, *Mercurius corrosivus ruber.* Quik, aq. fortis composita, ana lbj; dissolve, decant, and evaporate on a sand heat, until it becomes red.

HYDRARGYRUS NITRATUS RUBER. Quik, nitric acid, ana 5xij, acid muriat. 3j; dissolve and evaporate to dryness.

MERCURIUS PRÆCIPITATUS CORROSIVUS, *Hydrargyri nitricoxidum, Oxidum hydrargyri nitricum, Oxidum hydrargyri rubrum per acidum nitricum.* By dissolving quicksilver in nitric acid, with heat, and evaporating till a dry mass is left, which is then calcined in a broad, shallow vessel, until it no longer emits red vapours.

2. Quik 36 oz., dissolve in aquafortis 60 oz., digest two days to clear it, distil to dryness in a gallon retort, pour on a similar solution, and distil again to dryness: for this, six retorts are required, set in a sand heat: calcine the mass in three retorts, with receivers, set in separate furnaces. In the first three hours, flowers should settle in the arch of the retorts; in the next three, they should be driven into the neck; in the last three, the matter in the retorts should become first yellow, then orange, lastly vermilion red; the fire being then stopped, the residuum will be a shining red scaly mass, of a proper marketable quality. The aquafortis that comes over may be used over again, adding a quarter of fresh acid. Anti-syphilitic, gr. ss—ij nocte manequæ, but principally used externally, as an escharotic and stimulant to foul ulcers, for which purpose it must be very finely pulverized.

GREEN PRECIPITATE, *Mercurius præcipitatus viridis, Lacerta viridis.* Dissolve quicksilver 3j in nitric acid q. s.; at the same

time dissolve also copper $\frac{3}{4}$ in another parcel of nitric acid; mix the two solutions, evaporate to dryness, and calcine the residuum in a shallow vessel till no more red fumes appear; caustic.

LEAD.

DROSS OF LEAD, *Plumbum ustum*. Melt lead, and rake off the scum till it is entirely reduced to dross.

MASSICOT, *Protoxide of lead, Ochra plumbaria factitia*. Roast potters' lead ore, or dross of lead, until it acquires a yellow colour. Used as a paint; comp. of 13 lead, 1 oxyg.; equiv. 14.

LITHARGE OF GOLD, *Lithargyrus auri*. Yellow, impure.

LITHARGE OF SILVER, *Lithargyrus argenti*. White; obtained in the extraction of silver; from Germany.

ENGLISH LITHARGE, *Lithargyrus, Plumbi oxidum semivitreum*. Made by melting red lead; used in making plaisters, being more convenient than red lead, and from its peculiar scaly appearance it cannot be adulterated. In griading litharge, 12 oz. of olive oil are usually added to each cwt. to prevent dust.

RED LEAD, *Minium, Plumbi oxidum rubrum*. By roasting litharge in a flaming fire; used in making plaisters, and as a paint; reduced by red earths, a mixture of the protoxide and deutoxide of lead.

ORANGE RED, *Sandiv*. Made by calcining white lead; is a brighter colour than red lead.

IRON.

LOADSTONE, *Magnes*. Found in iron mines; astringent; used externally to draw iron out of wounds, also as an amulet against the gout, and to draw over or stroke certain parts in painful diseases, as a magical remedy.

BLOOD-STONE, *Lapis hematitis, Hæmatitis*. Found in mines; made into polishers, and when prepared, used also as a polishing-powder; drying, astringent, agglutinating.

SCALES OF IRON, *Black oxide of iron, Protoxide of iron, Squamæ ferri, Oxidum ferri nigrum*. The scales of iron beaten off by the blacksmith in his work, separated from the dirt by means of a magnet, reduced to powder in a mortar, and washed over; do not occasion flatulenc. Composed 3.5 iron and 1 ox.; equiv. 4.5.

ÆTHIOPS MARTIALIS. Keep iron filings under water, shaking them occasionally; wash the black powder, and dry quickly to prevent its rusting.

CHALYBS PRÆPARATUS CUM ACETO. Wet steel dust with white wine vinegar, expose it to the sun; repeat this often, then levigate.

CROCUS MARTIS, *Peroxide of iron, Potée d'acier, C. martis astringens, Oxidum ferri rubrum.* Calcine iron or steel filings till they become of red colour. Composed of 3·5 iron and 1·5 ox.; equiv. 5.

CROCUS MARTIS APERITIVUS, P. L. 1720, *C. M. sulphuratus.* Melt together equal parts of iron filings and sulphur, and calcine the mass till all the sulphur is driven off.

ROUGH COLCOTHAR, *Brown red, Common Indian red, Rouge d'Angleterre.* By recalcining green vitriol (previously calcined to whiteness, or distilled for its oil,) until it becomes very red.

WASHED COLCOTHAR, *Indian red, Trip, Terra dulcis vitrioli.* Wash rough colcothar, or the residuum left in the distillation of aquafortis, till all the saline matter is abstracted; scarlet.

CROCUS. Calcine washed colcothar in a violent heat, until it becomes purplish or bluish; very hard; used for polishing.

FINE CROCUS. Green vitriol and salt, of each 1lb., grind together, heat to a cherry red for some hours, and wash; violet brown, soft to the touch; spread with soap upon razor-strops.

JEWELLERS' ROUGE. Precipitate a solution of green vitriol in water, by a solution of pearl ash, and calcine till of a scarlet colour.

All these are tonic, stimulant, gr. v. to x. Used in the composition of astringent drying and strengthening plaisters and ointments; employed also for polishing metals, and as pigments.

TIN.

STANNUM PULVERATUM, P. L. 1788. Tin 6lb., melt, and stir till it becomes covered with a powder, which take off, and when cold sift.

POTÉE D'ETAÏN, *Polisher's putty, Calcine, Cineres stanni.* Melt tin, rake off the dross as it is formed, and calcine this dross till it becomes whitish.

2. Melt tin with an equal weight, or one ounce and a half of lead, and then raise the heat so as to render the mixed metal red hot, when the tin is immediately flung out in the state of putty. Both are very hard, used for polishing glass and japan work, and to colour opaque white enamel.

BEZOARDICUM JOVIALE, *Peroxide of tin.* Tin 1 oz., nitre 3 oz., flung into a red hot crucible, and the calx well washed: composed of 7·25 tin with 2 oxyg., equiv. 9·25.

ANTICHECTICUM POTERII. Tin, regulus of antimony, ana p. æq. melted together, then deflagrated with three times as much nitre, and well washed; are astringent, ðj to ij; used in phthisis.

OXIDE OF TIN, *Oxidum stanni*. Dissolve tin in aqua regia made of nitric and muriatic acid, in a small vessel covered to prevent the absorption of air; and immediately pour it into a solution of subcarbonate of potash sufficient to saturate the acid; filter and wash.

SPELTER.

LAPIS CALAMINARIS, *Calamina, Carbonas zinci impurus*. Found in mines; drying, astringent: used in ointments; but cawk, sulphate of barytes, coloured, has been lately sold for it; used also to furnish zinc, and for making brass.

TUTTY, *Tutia, Tuthia, Oxidum zinci impurum*. The sublimate collected in the chimneys of furnaces in which ores mixed with lapis calaminaris are smelted, this sublimate being mixed with clay on cylindrical moulds and baked; or it is collected during the roasting of blende, attaching itself to the upper part of the furnace: drying, astringent; used in eye-waters and eye-ointments.

FLOWERS OF ZINC, *Oxide of zinc, Flores zinci, Zincum calcinatum, Zinci oxidum*, P. L. before 1824. Procured by burning zinc in a long deep crucible, placed sideways in a furnace, so as to collect the flowers conveniently as they form: antispasmodic; used in epilepsy, gr. v to x; also in painting, as a substitute for white lead; dries very slowly, requires white vitriol to be added; comp. of 4.25 zinc and 1 oxyg., equiv. 5.25.

DIAPHORETIC CALAMINARIS. Lap. calam. 4 oz., nitric acid lbj.; dissolve, decant, distil to dryness, powder, and wash the residuum; sudorific, gr. x to l.

POMPHOLIX, *Nihil album*. Collected in the smelting furnaces, wherein zinc ores or brass are melted; used in ointments for tutty.

MAGISTERY OF LAPIS CALAMINARIS, *Hydrated oxide of zinc*. Dissolve lapis calaminaris in muriatic acid, and add subcarb. of ammonia water to precipitate it: wash and dry; emetic, cathartic, gr. iij to viij.

ZINCI OXIDUM, P. L. 1824. Sulphate of zinc \bar{x} ij, aq. dist. Oj; dissolve, add liquor ammoniaë q. s., wash the precipitate, and dry.

ANTIMONY.

PROTOXIDE OF ANTIMONY, *Powder of Algaroth, Mercurius vite*. Pour butter of antimony into distilled water, wash the precipitate, and dry it by a gentle heat: comp. of 5.5 ant. with 1 oxyg., equiv. 6.5.

2. Digest 1lb. of liver of antimony for a day in three pints of

water, to which 1lb. of oil of vitriol and 1lb. of common salt has been previously added: decant the clear solution and pour it into hot water, wash and dry.

OXIDUM ANTIMONII NITRO-MURIATICUM. Mur. acid ʒxj , nitric acid ʒj , common antimony ʒij , dissolve, pour the clear solution into a gallon of water, and wash.

OXIDUM ANTIMONII, P. L. 1815. Dissolve emetic tartar ʒij in distilled water, and subcarb. of ammonia ʒij in another portion of water, mix the two solutions, boil till the precipitation is complete, and wash the precipitate.

PEROXIDE OF ANTIMONY, Diaphoretic antimony, Antimonium diaphoreticum, Calx antimonii, Antimonium calcinatum. Common antimony 1lb., purified nitre 3lb., inject by spoonsful into a red hot crucible, powder and wash; the flowers that stick to the side of the crucible must be carefully separated, otherwise they render it emetic; comp. of 5·5 ant. with 2 oxyg., equiv. 7·5.

BEZOAR MINERAL, Bezoarticum minerale. Upon butter of antimony drop slowly as much nitric acid, distil it off, and pour it on again, adding one-third fresh acid; repeat this operation, and calcine the residuum.

MAGISTERY OF DIAPHORETIC ANTIMONY, Materia perlata. To the water that was used in washing the diaphoretic antimony add spirit of vitriol, or some other acid, as long as any precipitate is produced, which is to be washed.

CERUSSA ANTIMONII. Regulus of antimony 2lb., purified nitre 3lb.: grind together, and proceed as for diaphoretic antimony; produce 2lb. 13oz. In this operation and similar ones, the admixture of the emetic flowers may be avoided by sinking the crucible deep in the coals, so that the sides, up to the very top, may be too hot for them to settle on; or they may be collected by using a tubulated earthen retort.

CALX ANTIMONII NITRATIS. To 4oz. of regulus of antimony, finely powdered, add by degrees 12oz. of nitric acid, distil to dryness, powder the mass and wash it.—Diaphoretic, in doses of gr. ij to x; but Wilson, Course of Chemistry, p. 106, says he has known diaphoretic antimony given with good success by half an ounce at a dose, and repeated two or three times a day, and that for several days successively.

FLOWERS OF ANTIMONY, Flores antimonii. Throw into an ignited tubulated retort powdered common antimony by spoonsful, till as many flowers come over into the receivers as are wanted: the bottom of the retort must be very hot, and the fire kept up steadily; emetic, in doses of gr. j to ij.

ARGENTINE FLOWERS OF ANTIMONY, Flores antimonii argentei.

Keep regulus of antimony melted in vessels which admit the air, but prevent the escape of the flowers, and afford them a cool place on which they may settle.

GLASS OF ANTIMONY, *Vitrum antimonii*, *Antimonium vitrificatum*, *Oxidum antimonii cum sulphure vitrificatum*. Roast powdered common antimony in a shallow vessel over a gentle fire, till it is of a whitish grey, and emits no fumes in a red heat, then melt it in a quick fire into a clean brownish-red glass. If the antimony has been calcined too much, it will require a little common antimony to be added to render it transparent: composed of eight parts of protoxide, united with one of common antimony; violently emetic, in doses of gr. j to ij, and very uncertain in its operation; used in making antimonial wine and emetic tartar.

LIVER OF ANTIMONY, *Hepar antimonii*. Roast common antimony to a dull grey, and melt it; *℞s. 8d.* the lb.

CROCUS METALLORUM, *Crocus antimonii*, P. L. 1745. Common antimony and saltpetre, ana, equal weights; mix and melt.

CROCUS ANTIMONII, P. L. 1788. *Calx antimonii illota*. Common antimony and saltpetre, of each 1lb., common salt 1oz.; mix and melt.

PANACEA ANTIMONII. Sulphuret of antimony $\bar{\text{v}}\text{vj}$, nitre $\bar{\text{3}}\text{x}$, common salt $\bar{\text{3}}\text{jss}$, charcoal dust $\bar{\text{3}}\text{j}$; mix in fine powder, throw into a red-hot crucible, and keep it in the fire for a quarter of an hour, take the crucible out and let it cool, break it carefully, separate the uppermost spongy scoria, powder and wash it: when washed it should be of a fine golden colour. This panacea is the basis of Lockyer's pills.

CROCUS ANTIMONII LOTUS, *Oxidum antimonii cum sulphure per nitratem potassæ*. Common antimony and saltpetre, of each equal weights; mix and melt, pour out, separate the reddish part from the whitish crust, reduce the former to powder, and wash it as long as it communicates any taste to the water.

These four preparations are emetic, in doses of gr. ij to viij, but uncertain and sometimes violent; used for making emetic wine, &c., and a purge for cattle: the yellowish-red varieties contain four parts of protoxide and one of antimony; the dark-red two parts of protoxide to one of antimony.

PURGING ANTIMONY, *Antimonium catharticum*. Glass of antimony 4oz., oil of vitriol 12oz., digest two days, distil to dryness, wash the residue, and add to it as much Glauber's salt, and twice as much sal enixum; melt together, powder, and wash: the most certain of all the antimonial purges, gr. ij to $\bar{\text{3}}\text{ss}$. Used now in some nostrum.

SCHWANBERG'S FEVER POWDER. Common antimony 1lb., heat

it, when ready to melt add, by degrees, hartshorn shavings 4oz., stirring it, and keep it in a red heat for some time.

ANTIMONIAL POWDER, *Pulvis antimonialis*, P. L. 1788. *Oxidum antimonii cum phosphate calcis*. Common antimony in gross powder, hartshorn shavings, ana 2lb.; roast in an iron pot until they form a grey powder, put this into a skittle pot, with a small hole in the cover, keep it in a red heat for two hours, and grind it to a fine powder.

DR. JAMES'S POWDER, *Pulvis antimonialis*, P. L. since 1809. Common antimony 1lb., hartshorn shavings 2lb.; proceed as in the former. Both uncertain preparations.

CHENEVIX'S ANTIMONIAL POWDER. *Mercurius vitæ* and phosphate of lime (obtained by dissolving burnt bones in muriatic acid, and precipitating the solution by subcarb. of ammonia water), ana, equal weights; dissolve in muriatic acid, and pour the solution into water alkalized with subcarbonate of ammonia.—Febrifuge and diaphoretic, gr. iij to viij; in larger doses, gr. x to ʒj, emetic and purgative; used also as an alterative in cutaneous diseases.

BISMUTH.

MAGISTRY OF BISMUTH, *Pearl white*, *Fard Spanish white*, *Dinitrate of bismuth*, *Magisterium marcasitæ*, *Bismuthi subnitras*. Dissolve bismuth in nitric acid, and pour it into river or distilled water, which throws down a white powder, to be washed and dried in the shade, and kept from the light: comp. of 20 ox. bism. 6.75 acid, and 2.25 water, equiv. 29.

OXIDE OF BISMUTH, *Bismuthi oxidum album*. Bismuth 4lb., nitric acid q. s. about 2lb.: dissolve and precipitate by subc. of potash 4lb., in water 6lb.; wash the precipitate well; used as an antispasmodic, and as a cosmetic paint; grows yellow by keeping; comp. of 9 bism, with 1 oxyg., equiv. 10.

FLORES BISMUTHI. Bismuth lb. ss, nitre lb. j; grind together and inject by degrees into an ignited tubulated earthen retort, with receivers annexed to catch the flowers.

MANGANESE.

MANGANESE, *Peroxide of manganese*, *Tritoxide of manganese*, *Magnesia nigra*. Found in mines; used in a small proportion to render glass colourless, or in a large proportion to colour it purple; and in chemical processes to furnish oxygen gas by distilling, or to supply oxygen to the species for muriatic acid, and thus convert it into oxymuriatic acid: comp. of 3.5 mang. with 2.5 oxyg., equiv. 5.5.

BLACK WAD. Found in mines; earthy; used as a paint.

COBALT.

COBALT BLACK, *Oxide of cobalt*. Boil powdered bright-white cobalt ore, found in Cornwall, in nitric acid; dilute with a large quantity of water; add subcarbonate of potash water, in small successive portions, letting the solution settle, and decanting off the clear each time until it becomes of a rose colour: then add subcarbonate of potash water as long as any sediment falls, which wash and dry: used to make blue colours for painters and potters.

2. Dissolve cobalt in muriatic acid, and add subcarb. of potash water; filter and wash: used in rheumatism.

METALLIC SUB-SALTS.

GOLD.

AURUM FULMINANS, *Oxidum auri ammoniatum*. Dissolve a few grains of grain-gold in aqua regia made with common salt, or by the mixture of the acids, and add liquid ammonia, to precipitate the gold.

2. Dissolve gold in aqua regia made with sal ammoniac, and precipitate the gold with subcarb. of potash water; requires much care, as it explodes with the utmost violence on the least friction, or a very slight heat: its fulminating quality may be destroyed, and the gold recovered, by boiling it in oil of vitriol or oil of tartar, as also by mixing it with sulphur, and exposing it to a gentle fire, which burns the sulphur away; it first becomes purple, and then appears in its metallic form. Aurum fulminans is sedative, antispasmodic, and carminative; used in spasmodic colic, in doses of gr. iij—vj.

SILVER.

FULMINATING SILVER, *Brugnatelli's fulminating powder*. Dissolve silver gr. xl, in nitric acid ʒij, or lunar caustic ʒj, in distilled water ʒij; to this solution add spirit of wine ʒij, and boil the mixture in a retort, or flask, so that the condensed steam may run back into the boiling liquid; a white crystalline powder forms at the bottom; when no more seems to form, let it cool; wash the fulminating silver with river water, and dry it between bibulous paper, but without heat. Explodes with the slightest friction: a small portion, about 1-3d of a grain, being put in the middle of a bit of silver paper, the edge of which is smeared with paste, a bubble of glass is then wrapped up in this paper; the bubble thus loaded will explode, if thrown upon the ground or trod upon; is a good alarm, if put in places where it may be trodden upon by thieves, &c.

QUICKSILVER.

MINERAL TURBITH, *Queen's yellow*, *Turpethum minerale*, *Mercurius emeticus flavus*, *Hydrargyrus vitriolatus*, *Oxidum hydrargyri sulphuricum*, *Subsulphas hydrargyri flavus*. Corrode quicksilver by boiling it in about an equal weight of oil of vitriol to dryness; the white mass is then flung into a large quantity of boiling water, it immediately changes to a yellow powder, to be well washed and dried; emetic in doses of gr. ij—viij; useful in inveterate gonorrhœa; as a preservative against hydrophobia; alterative, gr. j—ij, in leprosy and obstinate glandular obstructions; as an errhine, diffused among other powders; and a fine yellow pigment. Contains 27 peroxide of quik and 5 sulph. acid; equiv. 32.

SWEET SUBLIMATE, *Calomel*, *Protochloride of mercury*, *Mercurius dulcis sublimatus*, *Calomelas*, *Hydrargyri submurias*, *Murias protoxydi hydrargyri*, *Submurias hydrargyri sublimatum*. Grind 40lb. of corrosive sublimate with 30lb. of quicksilver, sublime the grey powder; powder and wash the sublimate with boiling water. Sold for calomel and panacea mercurialis.

CALOMEL, *Mercurius dulcis series sublimatus*, *Calomelas*. Repeat the sublimation six times.

PANACEA MERCURIALIS. Repeat the sublimation nine times, that the *Mercurius dulcis* may be rendered still milder.

SWEET PRECIPITATE, *Protochloride of mercury*, *Mercurius dulcis præcipitatus*, *Hydrargyrus muriatus mitis*, *Submurias hydrargyri præcipitatum*, *S. hydrargyri præcipitatus*. Dissolve quicksilver in nitric acid by boiling, observing to have more quicksilver than the acid will take up, pour off the solution into a boiling brine, composed of common salt equal to half the weight of the quicksilver, dissolved in water in the proportion of about half an oz. of salt to a pint: the precipitate thus produced is to be well washed and dried.

FLOWERS OF CALOMEL. Distil calomel in a low retort, having a very short and wide neck, so disposed in the furnace that the neck of the retort, being too hot for the calomel to settle there, it may be driven over into a large receiver half filled with hot water, and kept so as to steam: the sublimate is in the form of a fine white powder.—Dose, as alteratives, gr. j—ij nocte manequè; if they do not pass through the bowels, they affect the mouth, which may be avoided by joining purgatives with them; as cathartics, gr. v to viij or x; but calomel was formerly, and still by some persons, given in doses of ℥j; contains quik 25, with chlorine 4·5; equiv. 29·5.

WHITE PRECIPITATE, *Mercurius præcipitatus albus*, *Calx hydrargyri alba*, *Murias hydrargyro-ammoniacale*, *Hydrargyrus præcipitatus albus*, the *Hydrargyrum præcipitatum album* of the London Pharmacopœia, and the *Hydrargyri submurias ammoniatum* of the Dublin. Dissolve corrosive sublimate and sal ammoniac, ana ζvj , in half a gallon of water, add half a pint of liq. potas. subcarb., wash the precipitate and dry.

HYDRARGYRUM PRÆCIPITATUM ALBUM. Corrosive sublimate ζvj , sal ammoniac ζiij , liq. potass. subcarb. half a pint, distilled water four pints, proceed as above.

SUBMURIAS HYDRARGYRI AMMONIATUM. Add to the liquor poured off from the sweet precipitate in its manufacture, liq. ammoniæ q. s. to throw down a new precipitate; wash this with cold distilled water, and dry it on blotting-paper; confounded with sweet precipitate, does not become black when rubbed with lime water; externally, to make a detergent ointment, in scabies and other cutaneous affections.—*Officinal preparations.* Unguent. Hydrargyri præcip. albi., *L.D.*

FULMINATING MERCURY. Dissolve 100 gr. of quik in nitric acid ζjss by meas.; pour the solution into 2oz. by meas. of alcohol, heat till an effervescence takes place; the fulminating quicksilver gradually forms as a white powder, to be well washed and dried. Used as priming for fowling-pieces.

PROTOPHOSPHATE OF QUICKSILVER, *Phosphas protoxydi hydrargyri*. Dissolve quik in nitric acid, add a solution of phosphate of soda as long as a sediment falls, wash and dry the white sediment; contains 26 protoxide of quicksilver, and 6.75 phosphoric acid, equiv. 32.75; dose, gr. ss to gr. j.

IODATE OF QUICKSILVER, *Iodas hydrargyri*. Add a solution of iodate of potash to the nitric solution of quicksilver, the iodate of quicksilver falls down; resembles Turpethum minerale; contains 190 quik, 7.5 oxygen, and 112.5 iodic acid.

BORATE OF QUICKSILVER, *Boras hydrargyri*. Borax saturated with soda 265 gr., calomel 222 gr.; grind together, adding, when well mixed, a little water; then fill the mortar with water, and let the red precipitate settle, wash and dry.

2. Precipitate the solution of quik in nitric acid by a solution of borax; white.

NITRAS HYDRARGYRI AMMONIATO-NITRICUM. Dilute nitric acid lb. j, add carbonate of ammonia-water ζvj ; when the effervescence is over, add quik $\zeta viij$, dissolve, evaporate, and crystallize.

PROTOIODIDE OF QUICKSILVER, *Protoiodure de mercure*. Protonitrate of quicksilver 100 gr., dissolve in water 400 gr., filter,

add solution of hydriodate of potash as long as any sediment falls, wash and dry; yellow; used to make an ointment, tincture, and pills; contains 15·5 iodine, with 25 quik; equiv. 40·5 This preparation should be preserved in a well-stopped bottle, and kept out of the solar light. It is used for making the ointment of the protoiodurets of mercury. There are pills also of the protoioduret.

DEUTOIODIDE OF QUICKSILVER, *Deutoiodure de mercure.* Dissolve corros. sublim. 70 gr. in water; dissolve also hydriodate of potash, 100 gr. in water; mix the two solutions by degrees, filter, wash and dry; crimson, contains 31 iod. with 25 quik; equiv. 56. Used to make an ointment, tincture, and pills.

COPPER.

GREEN BICE, *Malachite, Viride montanum optimum, Chryso-colla, Hemiprismatic habroneme-malachite, Green carb. of copper.* Composed of 10 perox copp. 75 carb. ac. and 1·25 water; equiv. 13·875.

COPPER GREEN, *Cendres bleues cuivrées, Viride montanum vulgare, Uncleavable staphylinc-malachite, Dicarb. of copper;—Blue bice, Cæruleum montanum, Lapis Armenus præparatus, Prismatic azure-malachite, Blue carbonate of copper.* Contains 15 carb. of copp. and 6·125 protohydrate of copper; equiv. 21·625. All are found in mines, and prepared, by grinding and washing, for paints.

REFINERS' VERDITER, SANDER'S BLUE, CENDRES BLEUES, *Azurum cinereum.* From the solution of copper obtained in precipitating silver from nitric acid by heating it with copper; this solution is heated and poured upon whiting moistened with water; the mixture stirred for several hours every day, till the liquor loses its colour, when it is poured off, and a fresh portion of the solution poured on, until the proper colour is obtained.

VERDITER BLUE, *Cendres bleues superfins en pâte.* Solution of blue vitriol at 35 deg. Baume, 240 pints; solution of muriate of lime, at 40 deg. Baume, 180 pints; mix, decant the clear liquor, and wash the sediment with the washings of a former operation at 8 or 10 deg. : add the first washings to the clear muriate of copper, until it begins to fall below 20 deg. Baume, the produce will be about 670 pints. Mix 100lb. of quicklime with 300lb. of water, and add 70 to 85lb. of this lime cream to the muriate of copper; trying the liquor with ammonia-water whether it gives the proper shade; if too blue, more lime cream must be added: then wash the green sediment, of which there will be about 500lb.; saving these washings. Dry a parcel of this sediment to find how much dry material it will yield. To as much moist green paste as con-

tains 27lb. of dry stuff, add 1lb. of the lime cream, and 7-10ths of a pint of pearl-ash water, at 15 deg. Baume, and grind it as quick as possible in a colour mill. Dissolve $\frac{1}{4}$ lb. of grey sal ammoniac in 4 pints of water, and $\frac{1}{2}$ lb. of blue vitriol in another 4 pints of water; put the ground colour into a stone bottle, and add at the same time the blue-vitriol-water, and the sal-ammoniac water, cork well, wax, and leave it for four days. Turn out four of the bottles into a brandy hogshead, fill it up with water, which renew once a day in winter, and twice a day in summer, for eight times, stirring up the sediment whenever fresh water is added; then stir up, and strain.—*Cendres bleues fin en pâte.* Put in $\frac{1}{2}$ lb. lime cream, and $\frac{1}{4}$ lb. white sal ammoniac.—*Cendres bleues no. 1 en pâte.* Use 2lb. of lime cream, and $\frac{1}{2}$ lb. of white sal ammoniac. Used in painting paper-hangings, mostly for the ground colour, but is soon altered by the sun.—*Cendres bleues superfins en pierre.* Dry the moist superfine blue on white wood trays.—*Cendres bleues fins en pierre.* The dried fine moist blue, used as a water-colour. The washings above 10 deg. Baume, are boiled to 40 deg. and, being almost entirely muriate of lime, are mixed with it. Those below 10 deg. are used to wash the first sediment, or sulphate of lime.

VERDITER GREEN. The process for refiners' verditer often miscarries, and a green colour is produced instead of a blue.

BRUNSWICK GREEN. Dissolve blue vitriol in a large quantity of water, and add spirit of urine, or rough bone spirit, as long as any sediment falls; decant, wash and dry the sediment; the liquor is used to make sal ammoniac.

ROUGH VERDIGRIS, Vert de Grèce, Diacetate of copper, Ærugo, Viride æris, Cupri subacetis. Prepared by putting plates of copper into a cask between layers of vine twigs, and moistening them with sour wine; emetic internally, in very small doses; externally caustic; much used as a paint: from France, composed of 10 ox. copp. 6·25 ac. and 6·75 water; equiv. 23.

ENGLISH VERDIGRIS. By corroding copper with rough pyroligneous acid and tartar.

ÆRUGO PREPARATA. Rough verdigris q. p. grind with water; add more, and pour off the coloured water into another vessel, where let it settle; then pour away the water, and dry the sediment, repeating this washing with the remainder, until all is either dissolved or washed over.

SCHÉELE'S GREEN, Arseniate of copper. Precipitate a solution of blue vitriol 2lb. in water 6 gallons, by a solution of white arsenic 11oz., and pearl-ash 2lb., in boiling water 2 gallons, and wash the precipitate; produce 1lb. 8oz.: used as a paint.

SCHWEINFURT GREEN, *Vienna green*, *Vert de mitis*. Dissolve verdigris 1lb. in vinegar, and pour into it a solution of 1lb. white arsenic in water; add more vinegar to dissolve the sediment; evaporate and crystallize. The crystals are a fine bluish green.

2. Boil 10lb. of the crystals with a solution of 1lb. of potash; this will take off the blue tinge.

Æs USTUM. Copper, rough brimstone, ana p. æq. laid in strata, common salt, a small quantity sprinkled on each layer, exposed to the fire till the brimstone is burned out: when one piece is rubbed against another, it ought to have a red colour like cinnabar; caustic.

LEAD.

FLAKE WHITE, *Fine white*, *Carbonate of lead*, *Cerussa vera*, *Plumbi carbonas*, *P. subcarbonas*, *P. oxidum album*. Made by suspending rolls of thin sheet-lead over malt vinegar, or pyroligneous acid, in close vessels, the evaporation from the acid being kept up by the vessels being placed in a heap of dung, or a steam bath.

NOTTINGHAM WHITE. Made with aleger; does not discolour so soon as the common.

NEWCASTLE WHITE. Made with molasses vinegar.

GRACE'S WHITE LEAD. Made with the refuse water of the starch-makers, the phlegm obtained in distilling rough turpentine, brewers' grains, and exhausted hops, and any other similar matters.

FRENCH WHITE LEAD, *Blanc de plomb*. Dissolve litharge in dilute acetic acid, and pass carbonic acid gas through the solution. Fine white lead is astringent, cooling; used externally, or employed as paint, mixed with nut or old poppy oil; it should be completely soluble in nitric acid, and the solution should not yield a precipitate when added to a solution of sulphate of soda; contains 14 protox. lead, with 2.75 carb. acid; equiv. 16.75.

WILKINSON'S WHITE. Grind litharge with sea water, until its whiteness does not improve.

MINERAL WHITE. Dissolve lead or litharge in nitric acid, add a solution of subcarb. of potash, as long as any sediment falls; wash and dry.

WHITE PRECIPITATE OF LEAD, *Sulphate of lead*. Litharge 1lb., strong nitric acid 4oz., water 8oz.; after some time decant, add oil of vitriol as long as a sediment falls: pour off the liquor back on the litharge. A fresh solution will take place, and this may be continued until the whole of the litharge is changed into the white precipitate. Used as a white colour in miniature painting, being both beautiful and durable.

PATENT YELLOW, *Muriate of lead, Chloride of lead*. Common salt 1 cwt., litharge 4 cwt., ground together with water, kept for some time in a gentle heat, water being added to supply the loss by evaporation, the subcarb. of soda then washed out with more water, and the white residuum heated till it acquires a fine yellow colour: used as a paint.

NAPLES YELLOW. Lead 1lb. and a half, common antimony 1lb., alum and common salt of ea. 1oz.: calcined together.

2. Flake white 12oz., diaphoretic antimony 2oz., calcined alum half an oz., sal ammoniac 1oz., calcine in a covered crucible, with a moderate heat, for three hours, so that at the end of that it may be barely red-hot: with a larger proportion of diaphoretic antimony and sal ammoniac, it verges to a gold colour. Used as a yellow colour.

IRON.

PRUSSIAN BLUE, *Cyanuret of iron, Hydrocyanate of iron, Cæruleum Berolinense*. Argol and saltpetre, 2lb. of each, throw by degrees into a red-hot crucible. Dry bullock's blood over the fire, in an iron pan, mix 2lb. of this dry blood with the prepared salt, calcine it in a crucible till it no longer emits a flame; then dissolve common alum 4lb. in water 26 pints, and strain the solution; dissolve also dried green vitriol 1lb. in water 4 pints, and strain while hot; mix the two solutions together while boiling-hot; dissolve the alkaline salt calcined with blood in 30 pints water, and filter through paper supported upon linen; mix this with the other solution, and strain through linen: put the sediment left upon the linen, while moist, into an earthen pan, and add spirit of salt 1lb. and a half, stir the mass, and when the effervescence is over, dilute with plenty of water, and strain again; lastly, dry the sediment. Used for preparing the cyanuret of mercury.

2. Mix 1lb. of Dantzic potash with 2lb. each of dried blood and horns, put it into an iron pot, and keep it in a red heat till it no longer flames or smokes; take out the pasty mass, when cold dissolve it in water, filter, evaporate, crystallize, and redissolve the crystals in a pint and half of water. Then take green vitriol 1lb., common alum 1lb. to 4lb., mix and dissolve them in a good quantity of water, by boiling, and filter while hot; precipitate this solution by the solution of prepared alkali, and filter. The precipitate will be the darker the less alum is added; but at the same time it will be greener from the great admixture of the oxide of iron which is precipitated, and which must be got rid of by adding, while it is moist, spirit of salt, diluting the mixture with water, and straining.

3. Precipitate a solution of green vitriol with the solution of prepared alkali, and purify the precipitate with spirit of salt; pre-

precipitate a solution of common alum with a solution of subcarb. of potash: mix the two sediments together while diffused in warm water, strain and dry: a fine blue colour, but apt to turn red.

PRUSSIAN GREEN. The sediments of the two first processes for making Prussian blue, before they have had the muriatic acid added to them.

2. Pour oxymuriatic acid upon fresh precipitated Prussian blue.

BURNT PRUSSIAN BLUE. From Prussian blue heated in a crucible; it is as good a colour as mummy, and dries so well as to require no drying oil to be mixed with it.

BORUSSIAS FERRI. *Prussiate of iron.* Calcine together dried blood ℥xij, subcarb. potash ℥iiij, and iron filings ℥ss; dissolve the calcined mass in hot water, add vinegar as long as any sediment falls; filter; add a solution of green vitriol as long as any borussiate is precipitated; filter and dry. Used in intermittent fevers, gr. iv to vj, ter quotidie.

PHOSPHAS FERRI. Dissolve iron turnings in muriatic acid, and precipitate by adding phosphate of soda as long as any sediment falls, which wash and dry: blue.

OXYPHOSPHATE OF IRON, *Phosphas tritoxidi ferri.* Dissolve colcothar, or any red oxide of iron, in dilute muriatic acid, and precipitate by phosphate of soda: white. Both are given from gr. x to gr. xv, in cancer and scrofula.

CHALYBS PRÆPARATUS CUM ACETO. Steel filings wetted with white wine vinegar, dried in the sun, and this frequently repeated; then levigated.

RUST OF IRON, *Ferri rubigo, Limatura ferri præparatæ Chalybis rubigo, Carbonas ferri præparatus.* Iron filings, or iron wire, exposed to the air, and frequently moistened with water, to which a small quantity of vinegar may be added; then ground to powder and washed over.

FERRI CARBONAS, C. ferri præcipitatus. A solution of 4oz. of green vitriol in water is precipitated by another solution of 5 oz. of subcarb. of soda in water, the precipitate is washed with warm water, and dried without exposure to the air, that it may retain its green colour.

2. By precipitating the solution of green vitriol with subcarb. of potash, performing the process in hot water, and drying it by steam. The preparations of iron are used as tonics in cancer, scrofula, and in neuralgic affections.

IODURET AND HYDRIOATE OF IRON. Mix 126 parts of iodine, and from 40 to 50 parts of clean iron filings in a flask with 1500 parts; let heat be applied till the mixture becomes clear, after which filter. The liquor is a solution of hydriodate

of protoxide of iron. By evaporating the solution nearly to dryness, the acid and oxide are decomposed, water is formed, and a solid combination of iodine and iron remains, containing 126 parts, or one atom, of the former, and 28 parts, or one atom, of the latter. The ioduret of iron is deliquescent; when pure it is of an iron-grey colour, brittle and crystalline in texture like antimony; when dry, it is inodorous, and when moistened, it exhales the odour of iodine. Dr. Thomson, who was the first to use this preparation medicinally, administers it in those cases in which the capillary system requires to be stimulated, and the tone of the habit to be brought up to the healthy standard. The dose is 2, 3, or 4 grains in distilled water, three or four times daily. It is stimulant, tonic, and aperient; it has been found serviceable in amenorrhœa and leucorrhœa; from its supposed influence in improving the hematosiis, it has been given in phthisis.

FERRI SUBCARBONAS, P. L. 1815. Precipitate a solution of 8oz. of green vitriol in water, by a solution of 6oz. of subcarb. of soda.

COBALT.

COBALT BLUE. Wash 1lb. zaffre to separate as much of the sand as possible; pour on it 8oz. nitric acid, diluted with an equal weight of water; digest for some hours, pour off the solution, and add fresh acid to the zaffre as long as it seems to extract any colour from it; mix the coloured solutions, evaporate nearly to dryness, dissolve in warm water, filter the liquor, add to the filtered nitric solution of the zaffre a solution of phosphate of soda as long as any sediment falls. Wash this violet subphosphate of cobalt, and mix it while still wet with 8 times as much alumine fresh precipitated (from alum-water by a more than sufficient quantity of liquid ammonia), well washed and still wet. Stir till the colour is quite uniform, then dry, and lastly, heat it cherry-red in a crucible.

2. Dissolve regulus of cobalt, or bright white Cornish cobalt ore previously roasted, in nitric acid, and proceed as already prescribed.

3. Precipitate the nitrate of cobalt by a solution of arseniate of potash; and mix this precipitated arseniate of cobalt with sixteen times as much moist alumine.

4. Mix the nitric solution of cobalt or zaffre at once with fresh-made alumine; this is of a good blue colour.

5. Precipitate the nitric solution of cobalt or zaffre with a solution of ammonia alum; this is paler than the rest.

CHROMIUM.

CHROMATE OF IRON. Found in masses in the Shetland Isles,

and in mines, black, hard enough to cut glass, with an imperfect metallic lustre. Used for making chrome yellow.

CHROME YELLOW, *Chromate of lead*. Prepared from chromate of iron, by heating it with nitre or pearl-ash; washing the mass, and mixing the ley with a solution of lead in nitric acid, or of sugar of lead in water; it should not effervesce with nitric acid; used as a gold-colour paint.

METALLIC SALTS.

GOLD.

MURIATE OF GOLD, *Chloride d'or*, *Murias auri*, *Chloruretum auri*. Grain gold $\bar{3}j$, nitric acid at 36 deg. Baume $\bar{3}j$, muriatic acid at 22 deg. Baume $\bar{3}ij$; dissolve with heat until the smell of chlorine gas is perceivable, then set it by to crystallize. Used in venereal complaints, and as a caustic in cancerous affections.

SOLUTION OF MURIATE OF GOLD, *Hydrochlorate d'or en solution*. Dissolve the muriate of gold in water. Used to discover oil in distilled waters.

SODA MURIATE OF GOLD, *Chloruretum auri et sodii*, *Aurum muriaticum natronatum*. Grain gold $\bar{3}ij$ make into muriate of gold, dissolve the crystals in water $\bar{3}x$; add a solution of decrepitated salt $\bar{3}ss$ in water $\bar{3}vj$, evaporate and crystallize. Dose gr. 1-8 to gr. ij rubbed into the gums, in syphilis; very uncertain in its action; it has recently been found serviceable in scrofulous affections, either by frictions or internally in the form of pastilles or pills, or mixed up with extracts.

PLATINUM.

SODA MURIATE OF PLATINUM, *Chloruretum platini et sodii*. Dissolve platinum $\bar{3}j$ in aqua regia, q. s. and crystallize; dissolve the crystals in water, and add a solution of decrepitated salt $\bar{3}ij$ in water; evaporate and crystallize. In syphilis gr. lj rubbed into the gums.

NITRO-MURIATE OF PLATINUM, *Hydrochlorate of platinum*. Platinum in small granules $\bar{3}j$, add nitric acid $\bar{3}j$, and muriatic acid $\bar{3}ij$; when the reaction has ceased, pour off the acid, and pour on fresh; repeat this until the whole of the platina is dissolved, which will require about 20oz. of the aqua regia; evaporate and crystallize.

SOLUTION OF NITRO-MURIATE OF PLATINUM. Dissolve the crystallized nitro-muriate in water; used to distinguish solutions of potash from soda.

SILVER.

LUNAR CRYSTALS, *Nitrate of silver, Crystalli lunares*. Dissolve silver $\bar{3}$ ij in nitric acid at 33 deg. Baume, $\bar{3}$ iiij, and crystallize; tonic, antispasmodic, and hydragogue: sometimes causes the skin to turn purple, or black, even after the use of the medicine has been left off for some time; administered in chorea and epilepsy; externally to cicatrize ulcers; as an application to erysipelas, and as a gargle in ulcerations of the fauces. The dose gr. $\frac{1}{6}$ to gr. 1, in a pill with crumb of bread.

SOLUTION OF NITRATE OF SILVER. Crystallized nitrate $\bar{3}$ j, water $\bar{3}$ v; dissolve. Used as a test for muriatic acid.

LUNAR CAUSTIC, *Causticum lunare, Argentum nitratum, Argenti nitras*. Formed by dissolving pure silver in spirit of nitre, evaporating to dryness, melting and pouring the melted mass into moulds, which may be made by thrusting a greased stick into a piece of clay; deliquescent. Used as a caustic; as an astringent wash in solution, and as a tonic and antispasmodic internally, in doses of 1-4 to iij grains; cont. 6·75 nitric acid, with 14·75 of silver; equiv. 21·5.

COPPER.

BLUE VITRIOL, *Blue stone, Couperose bleu, Sulphate of copper, Vitriolum cæruleum, Cupri sulphas*. Made by roasting copper, boiling the oxide in oil of vitriol, washing the residuum, evaporating and crystallizing. This substance is tonic, emetic, astringent, and escharotic; and has been found of use in epilepsy, hysteria, and intermittent fever; and also to produce vomiting in incipient phthisis: externally as a stimulant to ulcers, and to take down fungus. A weak solution is sometimes used as a collyrium in ophthalmia. Dose, gr. $\frac{1}{4}$ to gr. ij in a pill = gr. ij to gr. x in f. $\bar{3}$ ij of water vomits. The incompatibles are alkalies, earths, and their carbonates; salts of lead, acetate of iron; astringent vegetable infusions and tinctures.

2. By moistening plates of copper, covering them with rough brimstone, calcining, washing out the salt, evaporating and crystallizing. In large blue crystals; tonic, astringent, in doses of gr. ss to ij; emetic, gr. ij to x; externally escharotic. Used in dyeing, to increase the brilliancy of yellow browns: liquid gallic acid will show if it contains iron. Contains 5 perox. copp., 5 sulph. acid, with 5·625 water; equiv. 15·625.

PALE BLUE VITRIOL. By mixing a little nitric acid with the oil of vitriol and twelve times as much water, the solution of the copper is easily performed, but the crystals are pale.

TOORUSHOO, *Cyprische vitriol von der Compagnie, V. Cyprium ex India, V. Cyprium, Ph. Bat.* In very large sky-blue crystals.

From Pegu; used in India, and brought to Europe by the Dutch.

ROMAN VITRIOL, *Cyprian vitriol*, *Vitriol de Chypre*, *V. Cyprium*. Made by letting the water of copper-mines evaporate in shallow ponds. From Cyprus, in small sky-blue crystals.

SWEDISCHE VITRIOL, *Faln viktril*, *V. triphum*. Made by evaporating the water of the copper-mine at Fahlun; blue rather than green. Contains iron, copper, and zinc; does not copper iron by being rubbed upon it: nine shades of colour are made.

GOSLAR BLUE VITRIOL, *V. cupratum*. Pale blue-green crystals, very large and transparent, having the form of those of pure sulphate of iron. Contains both copper and zinc.

HUNGARIAN BLUE VITRIOL, *V. Hungaricum*. By evaporating the water of copper-mines.

SOLUTION OF SULPHATE OF COPPER, *Blue vitriol water*. Blue vitriol purified by repeated solutions and crystallizations $\bar{3}j$, water $\bar{3}v$; dissolve. Used as a test for arsenic.

AMMONIA SULPHATE OF COPPER, *Cuprum ammoniatum*, *Ammoniuretum cupri*. Blue vitriol $\bar{3}iv$, subcarb. of ammonia $\bar{3}vj$; grind together, and dry by means of filtering paper; tonic, antispasmodic. Used in epilepsy and chorea, gr. ss, gradually increased to gr. v.

SOLUTION OF AMMONIA SULPHATE OF COPPER. Pour into a solution of blue vitriol as much subcarbonate of ammonia-water as is necessary, first to precipitate the oxide of copper, and then to redissolve it again; add to the liquor its own weight of alcohol, to throw down the crystals of the ammonia sulphate; dry, and dissolve in water. Used as a test-liquor for arsenic.

BLUE EYE-WATER, *Aqua sapphirina*, *Aqua cupri ammoniati*, P. L. Lime-water lb. j, sal ammoniac $\bar{3}j$; mix, and let them stand upon a small piece of clean copper till they acquire a fine blue colour.

LIQVOR CUPRI AMMONIATI. Cuprum ammoniatum $\bar{3}j$, water lb. j; dissolve and filter.

AQUA CUPRI AMMONIATI, P. D. Lime-water $\bar{3}viii$, sal ammoniac $\bar{3}ij$, verdigris gr. \bar{iiij} ; digest for a day, and pour off the clear; a slight stimulant and escharotic; used to ulcers, and diluted to remove specks on the cornea, also as a show-liquor in chemists' windows.

FRENCH VERDIGRIS, *Distilled verdigris*, *Acetate of copper*, *Ærugo crystallisata*, *Crystalli Veneris*. Dissolve verdigris in distilled vinegar, and crystallize; $\bar{3}ss$ daily to a glandered horse produced no visible effect or inconvenience. From France.

ENGLISH VERDIGRIS. Blue vitriol 24oz. dissolved in water, sugar of lead 30oz. and a half, also dissolved in water; mix the solutions, filter, crystallize by evaporation; yields about 10oz. of crystals: a superior paint to rough verdigris.

SOLUTION OF ACETATE OF COPPER. Dissolve French verdigris in water to saturation. Used as a test-liquor for sulphur and gold.

IRON.

PROTOSULPHATE OF IRON, *Sal Martis, Ferrum vitriolatum, Ferri sulphas.* Dissolve iron turnings in dilute sulphuric acid, evaporate and crystallize; tonic, emmenagogue, anthelmintic, gr. j to v. Used in glysters against ascarides; contains 4·6 protox. iron, 5 sulph. acid, with 7·875 water; equiv. 17·375.—*Official preparation.* Mist. ferri comp., *L.* Pil. ferri comp., *L.*

COPPERAS, *Commercial sulphate of iron, Green vitriol, Coupe-rose verte. Vitriolum viride, V. vulgare Anglicanum, V. ferri, Ferri sulphas venale.* Made by allowing martial pyrites to effloresce, washing out the salt, boiling along with old iron, evaporating and crystallizing. Contains muriate of iron; crystals small, pale green, become covered with a yellow efflorescence by drying: this is prevented by dipping them into treacle-water, which covers them with a kind of varnish: colour darkened by dipping in a decoction of Turkey berries. Used in dyeing black, making ink, and in various trades.

VITRIOL DE ROME, *Vitriolum Romanum,* P. Bat. In large crystals, deep green. From the residuum of pyrites distilled for brimstone, or set on fire.

PISAN VITRIOL. Resembles the Roman, but the crystals are smaller and greener; preferred by black dyers and hat-makers; probably the basis of the Genoa black. Made near Pisa.

GOSLAR VITRIOL, *V. ferratum.* Sulphate of iron and zinc, pale, greenish.

SALTZBURGH VITRIOL, *V. hermaphroditicum.* Bluish green, of several shades; contains both copper and iron; coppers iron.

HUNGARIAN VITRIOL, *V. Hungaricum,* P. Bat. Deep green; contains copper.

DANTZIC VITRIOL. Green, not quite so deep as the Hungarian; contains copper and iron, but no muriatic acid; coppers iron.

SOLUTION OF PROTOSULPHATE OF IRON, *Copperas-water.* Protosulphate of iron 3 drachms, distilled water 10 drachms; dissolve. Used as a test for gold, oxygen gas in water, prussic acid, and gallic acid: it is speedily altered by the air: also to blacken leather.

PERSULPHATE OF IRON, *Tritosulfate de fer*, *Persesquisulphate of iron*. Calcine copperas in the open air, moistening it with a small quantity of nitric acid: wash the powder, and keep the red solution as a test for prussic acid, gallic acid, and boletic acid.

VITRIOL CALCINED WHITE, *Vitrioleum ad albedinem calcinatum*, *Sulphas ferri exsiccatum*, *Sulphas ferri exsiccatus*. Green vitriol heated in an unglazed pot, or spread upon the top of a furnace, or in a sunny place, until it is white, and grows red at the edges; astringent, drying.

FERRUM TARTARIZATUM. Rub iron filings 1lb., with cream of tartar 2lb., and water 1lb.; expose to the air for a week, dry, powder; add water 1lb., expose again to the air for a week, dry, and powder.

TARTARUM FERRI. Carbonas ferri (or rust of iron) 1 oz., cream of tartar, 2oz., water 1lb.; boil, filter, cool, filter again, evaporate to a pellicle, cool; it will form a saline mass, which is to be powdered: tonic and diuretic, gr. x—3ss.

LIQUOR FERRI ALKALINI. Iron ʒijss, dissolve in spirit of nitre ʒij, distilled water ʒvj; add by degrees aqua subcarb. pot. ʒvj; let it stand, and pour off the clear: these are tonic and emmenagogue, ʒss—ʒj, bis terve die.

TINCTURA MARTIS GLAUBERI. Iron filings, crude tartar, ana lb. iij, boil in water lb. xxxvj to 2 gall.; filter while hot, and evaporate to lb. v; tonic, emmenagogue, and deobstruent.

ACETAS FERRI. Protoxide of iron ʒiv, distilled vinegar ʒiij; dissolve and strain: tonic, astringent.

IRON LIQUOR, *Acetate of iron*. Leave old iron in a cask of vinegar or sour beer.

2. Leave old iron in rectified pyroligneous acid at 3 deg. Baume, for three or four days, or till it comes to 10 deg.; then draw off and evaporate the solution to 14 deg.: the tar deposited on the remaining iron may be burned off whenever it hinders the solution.

3. Mix a solution of acetate lime with a sol. of copperas. Used in dyeing black and browns.

ENS MARTIS, *Flores salis ammoniaci Martialis*, *Flores Martiales*, *Murias ammoniac et ferri*. By subliming with a quick sudden heat sal ammoniac, rubbed with twice its weight of iron filings or colcothar, and repeating the sublimation with fresh salt, as long as the flowers are well coloured.

FERRUM AMMONIATUM, P. L. since 1819. Subcarbonate of iron lb. j, dissolve in muriatic acid lb. j; evaporate to dryness, add sal ammoniac lb. j, and sublime.

2. Dissolve iron in spirit of salt, and water and sal ammoniac,

then evaporate to dryness; gr. iij—xv; useful in glandular enlargements of the breasts, chlorosis, &c. This is a muriate of ammonia and iron, is of an orange-yellow colour, and has an odour resembling that of saffron. It is very soluble; an ounce of water dissolving four drachms of it; it is also very soluble in alcohols. Alkalies and their carbonates, as also lime water, are incompatible with it. It is tonic, emmenagogue, and aperient. —*Official preparation.* Tinct. ferri ammoniat.

QUICKSILVER.

HYDRARGYRUS ACETATUS, *Acetas hydrargyri, Acetis hydrargyri.* Quicksilver 1lb., diluted spirit of nitre q. s. to dissolve it; precipitate with subcarb. of potash-water, wash and dry the precipitate; then dissolve it in spirit of verdigris q. s.; filter, evaporate to a pellicle, and crystallize; antivenereal, gr. j, nocte maneque, increasing the dose gradually.

2. Quicksilver, diluted spirit of nitre q. s.; dissolve it without heat; dissolve also Kali acetatum ʒiij, in boiling water 1 gall.; mix the two solutions, set them to crystallize, and wash the crystals.

CORROSIVE SUBLIMATE, *White mercury, Oxymuriate of quicksilver, Perchloride of quicksilver, Mercurius corrosivus sublimatus, M. c. albus, Hydrargyrus muriatus, Hydrargyri oxymurias, Murias hydrargyri corrosivus, Hydrargyrum muriaticum corrosivum.* Quik 1lb., dissolve in nitric acid about 1½lb.; evaporate to dryness, add decrepitated salt and vitriol calcined white, of each 1lb.; mix and sublime; or, which is still better, distil from a very low retort, having a wide short neck, into a large receiver: the greater part will come over in the form of a fine white snow. In a bolt head, the newly-condensed sublimate, being liquid, runs down to the bottom, and has got to be raised over again. It took twelve hours to sublime 3lb. in a bolt head; but in a retort 6lb. came over in two hours. Composed of 25 quik and 2 chlorine; equiv. 34.—*Official preparation.* Liquor hydr. oxymuriatis, L.

2. Boil quicksilver 2lb. in oil of vitriol 2lb. to dryness; when cold, add common salt 3lb. and a half, and sublime.

3. Boil quik 1lb., with oil of vitriol 7lb. to dryness; weigh, and add salt and black oxide of manganese, of each the same weight; sublime.

4. Quicksilver 2lb., spirit of salt 2lb, spirit of nitre 1lb.; distil.

5. Dissolve red precipitate in spirit of salt, and crystallize; antisiphilitic, acting quickly, but not permanently, gr. 1-8th to j, twice a day; in gargles, gr. iij to water 1lb., or as a wash in itch; ʒij a day to a horse, diuretic, enlarging the kidneys, and

rendering them diseased: in some salivation was produced, in others inflammation, in all debility.

VENETIAN SUBLIMATE, *Dutch sublimate*. Green vitriol calcined red 400lb., nitre and common salt ana 200lb., quicksilver 280lb., residuum of a preceding operation, or of aquafortis, 50lb., impure corrosive sublimate of a preceding operation 20lb.; moisten with a portion of the acid that distilled over in a former process, and sublime.

SOLUTION OF CORROSIVE SUBLIMATE, *for testing*. Corr. subl. ʒij, distilled water ʒx, dissolve, and keep in the dark. Used to discover albumen, and also lime and ammonia.

SAL ALEMBROTH, *Sal sapientiæ*. Corrosive sublimate, sal ammoniac ana p. æq., water q. s. to dissolve them; evaporate and crystallize.

PROTONITRATE OF QUICKSILVER. Quicks. 1 oz. dissolve in nitric acid diluted five times its weight of water; dry the crystals between filtering paper, redissolve in water, and keep a globule of quik at the bottom of the bottle: a test for ammonia, muriatic acid, phosphoric acid, sulphuric acid, gold, and platinum.

PRUSSIAN OF QUICKSILVER, *Cyanure de mercure*. Red precipitate 1 oz., Prussian blue 2 oz., distilled water, 6 oz.; boil for half an hour, filter, pour on fresh water, boil, and filter; mix the two solutions, evaporate and crystallize: antisyphilitic, ʒj, taken in distilled water.

LEAD.

SUGAR OF LEAD, *Lead saccharum, Saccharum Saturni, Cerussa acetata, Acetis plumbi, Plumbi acetis, Superacetis plumbi*. Fine white lead 1lb., distilled vinegar 12lb.; boil, filter, evaporate to 50 deg. Baume, and crystallize: the manufacturers use litharge, and the Dutch use distilled cider vinegar, as the least oily; internally, gr. iij—vij, as a specific in hooping cough; and also in visceral hemorrhages, in which cases it is combined with opium. Dose in this latter case is gr. ss. to gr. jss. made into a pill with gr. ss. of opium and crumb of bread. Externally, gr. iij to water ʒj, as an eye-water; ʒj to water ʒv, as a strong lotion, or ʒx for a weak: 12 oz. given to a horse was slightly diuretic, without any inconvenience.—*Official preparation*. Ceratum plumbi acetatis, *L. E. D.* Acidum acetosum forte, *E.* Solutio acetatis zinci, *E.*

2. Purified pyroligneous acid at 80 deg. Baume 65lb., litharge 58lb., water q. s. produces 75lb. of fine saccharum; the mother water retains 25lb., and may be used for another operation with advantage. Contains 14 protox. of lead, 6.25 acid, and 3.375 water; equiv. 23.635.

GOULARD'S EXTRACTUM SATURNI, *Aqua lithargyri acetati*,

Liquor plumbi acetatis, Liquor subacetatis lithargyri. Litharge lb. ij, distilled vinegar 1 gall., boil to lb. vj; let it settle, and pour off the clear; fouls the bottles very much, cannot be cleared off with subcarb. of potash, requires oil of vitriol or aquafortis; cooling, astringent: used to make white-wash.

SATURNUS ACETOSUS, *Pulvis extracti Saturni.* Extract of lead evaporated to dryness.—*Subacetate of lead.* Sugar of lead 3x, litharge 3xv, water 3xxv; boil to a half, and crystallize. Used to separate colouring matter from fermented liquors, and set free the alcohol.

NITRATE OF LEAD. Dissolve litharge, or fine white lead, in nitric acid, sp. gr. 1·3, and crystallize. Used for preparing nitrous acid.

TIN.

LAC SPIRIT. Muriatic acid (sp. gr. 1·19) 60lb., tin 3lb.; dissolve. Used in dyeing with lac dye.

DYERS' SPIRIT. Dyers' aquafortis 28lb., tin 4lb.; dissolve gradually, stirring frequently. Used in dyeing with lac dye; if for cochineal less tin is used.

2. Nitric acid 20lb., sal ammoniac 10lb.; dissolve, add tin q. p. which dissolves without effervescence. Used by the French dyers for cochineal.

MURIATE OF TIN, *Hydrochlorate of tin.* Muriatic acid at 25 deg. Baume 4 oz., grain tin 1 oz.; dissolve, evaporate, crystallize, redissolve, recrystallize, and redissolve. Used as a test for molybdic acid, platinum, corrosive sublimate, albumen and tannin.

SPELTER.

WHITE VITRIOL, *Galitzen stein, White copperas, Vitriolum album, Zincum vitriolatum.* Obtained at Goslar, by quenching the roasted silver ores in troughs of water, evaporating this water, setting it by to crystallize, melting the crystals, skimming off the impurities, pouring the melted mass into wooden boxes, and disturbing the regular crystallization by frequent stirring. Contains 5·25 ox. of zinc, 5 acid, and 3·875 water; equiv. 13·625. Used as a dryer of oil paint.

VITRIOLUM ALBUM DEPURATUM, *Sal vitrioli, Zincum vitriolatum purificatum, Zinci sulphas, Sulphas zinci.* Dissolve zinc in oil of vitriol much diluted with water, and crystallize.

2. White vitriol q. p. dissolve in water, add oxide of zinc, digest for some hours; filter, evaporate, and crystallize: tonic, astringent, and antispasmodic, gr. $\frac{1}{2}$ —ij; emetic, and operating very quickly, gr. x to 3ss; externally astringent. Contains 5·25

ox. of zinc, 5 acid, and 7·875 water; equiv. to 18·125; does not dry oil colours.

SOLUTIO ACETITIS ZINCI. White vitriol ʒj, dissolve in distilled water ʒx; sugar of lead ʒiiij, dissolve in distilled water ʒx; mix and filter; astringent; used as a collyrium and injection.

ANTIMONY.

BUTTER OF ANTIMONY, *Butyrum antimonii, Oleum antimonii, Murias antimonii, Causticum antimoniale.* Common antimony, corrosive sublimate, ana p. æq.; grind together; distil in a wide-necked retort, and let the buttery matter that comes over run in a moist place to a liquid oil.

2. Antimony calcined to greyness, or powdered glass of antimony 9 oz., common salt 32 oz., oil of vitriol 24 oz., water 16 oz.; distil: this yields 40 oz. of butter of antimony.

3. Common antimony, or glass of antimony 1lb., common salt 4lb., oil of vitriol 3lb., water 2lb.; distil.

ANTIMONIUM MURIATUM. Liver of antimony 1lb., dry common salt 2lb.; mix, and add them to oil of vitriol 1lb.; distil. Caustic, but apt to spread; used, however, largely by the farriers.

EMETIC TARTAR, *Emetique, Tartarus emeticus, Tartarum emeticum, Tartras antimonii.* Crocus metallorum, white tartar, ana 4lb.: boil them in water, filter, evaporate to a pellicle, and crystallize.

2. Boil 8lb. of common antimony with 16lb. of oil of vitriol in an iron pot to dryness, wash the grey mass until the uncombined sulphuric acid is carried off; mix it with an equal weight of crude tartar, boil in water, and crystallize.

ANTIMONIUM TARTARIZATUM. Crocus of antimony 3lb., cream of tartar 4lb., water 4 gallons: proceed as usual.

TARTARUM ANTIMONIATUM. Oxyd. antim. nitro-muriat. ʒij, cream of tartar ʒijss, distilled water ʒxviiij: proceed as before.

ANTIMONIUM TARTARIZATUM. Glass of antimony, cream of tartar, ana 1lb., water 1 gallon; boil, filter, and crystallize. This is emetic, sometimes cathartic, diaphoretic, expectorant, alterative, and rubefacient. As an emetic, the dose is gr. j—iv. in solution; as a diaphoretic and expectorant, gr. $\frac{1}{8}$ to gr. $\frac{2}{8}$. Alkalies, earths, and their carbonates, as also strong acids, decoctions of bitter and astringent vegetables are incompatible with it.—*Official preparation.* Liquor antimonii tartarizati, L.—Vinum tartratis antimonii, E.

VII. EARTHS AND ALKALIES.

EARTHS AND CLAYS.

TERRA LEMIA ALBA. Dirty white, with a grey cast, very heavy, rough, harsh, not colouring, burns very hard, outwardly dark brown, inwardly brownish yellow; used in dysenteries and malignant fevers.

BOLUS ARMENA ALBA. Bright white, compact, very smooth and soft, not colouring, burns very hard, and at last forms a whitish grey glass; sudorific.

BOLUS CANDIDA, *Axungia lunæ.* Pearly white, light, smooth, not unctuous nor colouring; burns to a very pale whitish yellow; astringent, cordial.

TOBACCO-PIPE CLAY, *Argile d'Abondant, A. de Montereau, Cimolia alba.* White, smooth, unctuous, slightly colouring, burns rather hard, and very white: used to make tobacco-pipes and white stone-ware.

WAITE LUMBER STONE, *Terra sigillata alba, Terra Samia vulgaris.* Tobacco-pipe clay, made into cakes with a stamp; used as an astringent, and to take grease out of woollen cloth.

SOAP-ROCK, *Spanish chalk, Parætanium, Creta Hispanica, C. sartoria.* White, firm, compact, weighty, hard, smooth, unctuous, not colouring, burns to a stone; writes upon glass, and if rubbed off, the marks become again visible by breathing upon the place: used by tailors to draw their patterns, to take out grease spots, and to engrave upon, the engraving being afterwards hardened by fire.

KAOLIN, *Porcelain clay.* Dry, friable, infusible. That of Cornwall used to make English china and fine pottery; that of Limoges to make Sevres china, and exported to Copenhagen for the same purpose; that of Passau, to make Vienna china.

TERRA CIMOLIA. White, compact, smooth, colouring, burning rather harder; found in the island Argentiere: used to wash clothes.

CHALK, *Creta, C. argentaria.* White, soft, marking lines; when newly burned, it grows hot with water, and falls into powder; antacid: used in heartburn, gr. x—ʒij; externally absorbent, and as a crayon.—*Hard chalk.* Coarse.

WHITING, *Spanish white, Blanc d'Espagne, Blanc de Troyes, Calcis carbonas præparata, Creta præparata.* From soft chalk,

by washing and making into large balls for cheap white paint, or into small drops for medical use.

CRETA PRÆCIPITATA. Precipitate a solution of muriate of lime by a solution of subcarb. of soda in water, and wash the sediment.—*Official preparation.* Mistura cretæ, *L. E.*; Hydrargyrum cum creta, *L.*; Pulvis cretæ compos., *L. E.*; Pulvis opiatuſ, *E.*

MAGNESIA ALBA, *Subcarbonate of magnesia, Magnesia, P. D. Magnesiæ carbonas, M. subcarbonas.* Obtained by precipitating the bittern, or liquor, left in the boiling of sea-water after the common salt has been separated, by a ley of wood ashes or subcarb. of potash. With respect to its use, it is antacid, and laxative when it meets with an acid, and may be given in the dose of ʒss to ʒij in water.—*Official preparation.* Magnesia, *L. E. D.*; Hydr. cum magnesia, *D.*

2. Epsom salt 12 oz., potas. subcarb. 9 oz., water 3 gall.; mix: is a mixture of the hydrate and carbonate of magnesia.

HENRY'S MAGNESIA. Epsom salt 56lb., dissolve in water, and precipitate with subcarb. of soda, q. s. dissolved in water; wash the sediment well, and finish the washing with rose-water. Subcarbonate of magnesia is made up while drying, either into large cubes with the edges bevelled, or in small dice: is powdered by being rubbed through a sieve; antacid, laxative, lithontriptic, ʒss—ʒij; mixes well with milk, but not with water, sometimes occasions flatulence.

CALCINED MAGNESIA, *Oxide of magnesium, Magnesie caustique, Magnesia usta, Magnesia, P. L. and P. E.* Expose subcarb. of magnesia to a red heat for two hours, or until it exhibits a peculiar luminous appearance: produces about half its original weight; antacid, laxative, ʒss—ʒij; does not occasion flatulence, but is not so soluble in the stomach as the other; it absorbs scarcely any carbonic acid by exposure to the air; equivalent 1.5.

MAGISTERY OF ALUM, *Earth of Alum, Pure alumine, Oxide of aluminium.* Dissolve alum in water, and add to the solution ammonia water sufficient to precipitate the earth; wash it well, and dry.

2. Dry ammoniacal alum, rub it to powder, and keep it red hot in a crucible for some hours.

GELATINOUS ALUMINE, *Hydrate of alumine.* Pure alumine, not dried, but in a moist state: used to mix with oxide of cobalt and other colouring oxides as a basis for the colour.

BAUME'S ALUM WHITE. Roman alum 1lb., honey half a lb.; dry, powder, and calcine in a shallow dish to whiteness; wash and dry: a beautiful white, even with oil.

ITALIAN WHITE CHALK, *Gesso, Bianchetto di pittori*. Dull white, hard, compact, regular texture, colouring, burns rather harder; used for a crayon.

BLANC DE BOUGIVAL. White marle, composed of two parts clay and one of chalk, made up in oblong cakes.

BLANC DE ROUEN. White marle, made up in masses of 1lb. each.

BLANC DE MOUDON, *Blanc de Morat, Gera Earth?* Silvery, silky, white, very fine, effervescing with acids; used as whiting.

STRIGAU EARTH, *Bole, Terra sigillata Silesiaca, Axungia solis*. Deep dull yellow, smooth, coarse but compact, heavy not colouring, burns very hard, and to a fine red. From Strigau; astringent and alexiterial.

YELLOW OCHRE, *French ochre, Spruce ochre, Powder ochre, Light ochre, Sphragis*. Fine dusky yellow, compact, firm, smooth, unctuous, slightly colouring, when moist very viscid, burns very hard, and to a fine bright red; Shotover Hill, Oxfordshire, and elsewhere: used in painting.

LIGHT RED ROUGE DE PRUSSE. Light ochre burnt: produces flesh colour with white lead and nut oil.

VENICE TRIPOLI, *Terra Tripolitana vera*. Whitish yellow, or pale straw, firm, harsh, dry, colouring, burns rather harder and to a pale rose colour; used for polishing and cleaning metals.

TRIPOLI. The septariæ, ludi Helmonti, or waxen veins, found on the east coasts of England calcined.

2. The clunch, or curl stone, of the Staffordshire mines calcined: gives gold and silver a beautiful black lustre.

CLAY OCHRE, *Stone ochre*. Deep yellow, heavy, close, firm, smooth, not colouring, burns to a fine deep colour, without any hardness. From Mendip hills; used in painting.—*Burnt stone ochre*. Deep red.

YELLOW EARTH, *Argilla lutea*. Pale yellow, very fine, loose, friable, colouring greatly, astringent taste, burns to a fine rose colour, but not harder. From Saxony: used for polishing, and as a paint.—*Burnt yellow earth, Englischer rod*. Fine rose red; used in Holland as a paint.

ITALIAN OCHRE, *Jaune d'Italie*. Fine yellow, firm, compact, very light, colouring, astringent; burns very hard, and to a dull red.

COARSE OCHRE. Fine bright, yellow, heavy, hard, firm, irregular texture, harsh, dusty, colouring, very impure; burns to a very pale ashen red, but no harder: Mendip hills.

ROMAN OCHRE. Hard, heavy, very deep or brown yellow; firm, regular, harsh, dusty, colouring very much; burns rather hard, and to a fine purplish red: Somersetshire, also near Rome; all used as paints.

FOUNDERS' LOAM. Deep yellow, fine, soft, with spangles of mica, slightly colouring: burns to a pale red, but not harder; Thrup, in Northamptonshire, also near Highgate Archway: used by founders for moulding.

RED ARMENIAN BOLE, *Bolus Armena rubra.* Deep red, hard, heavy, close, rough, colouring the hands; burns rather harder, and to a brighter red; astringent and alexiterial.

COMMON LEMNIAN EARTH, *Terra Turcica.* Pale flesh red, not very close, heavy, slightly unctuous; burns very hard, and to a dusky yellow.

GERMAN BOLE, *Bolus Bohemica rubra.* Pale yellowish red, compact, but unequal, heavy, smooth; burns rather harder, without changing colour; astringent.

TERRA LEMNIA RUBRA. Pale red, variegated with yellow, close, very heavy, rough, but scrapes smooth, not colouring; burns very hard, and to a fine deep red: Lemnos; astringent, sudorific.

BOLE OF BLOIS, *Bolus Blesensis, Bolus Armena lutea.* Pale red with an orange cast, close, hard, heavy, not colouring, effervescing violently with acids, very astringent taste, burns to a stony hardness and a dark red; astringent, sudorific; highly commended in the plague.

FRENCH BOLE, *Bolus rubra Gallica.* Pale red, with white and yellow veins, heavy, close, slightly unctuous, not colouring, slightly astringent; burns very hard, but of the same colour; astringent in powder.

BARROS, *Bucaros, Terra Portugallica.* Fine florid red, heavy, harsh, colouring, strongly astringent, burns brighter but not harder: used in dysentery and in dentifrices.

BRADWALL-HALL CLAY. Brick-red.—*Hallfield colliery, clay.* A marle, burning to a light red of four different shades: both are used in making Staffordshire pottery.

MAHOGANY EARTH. Pale red, sometimes darker, compact, heavy, smooth, but neither glossy nor unctuous, not colouring, burns very hard without change of colour; Isle of Wight: used in painting, and to stain wood of a mahogany colour.

SOFT RUDDLE, *Clay iron-ore, Rubrica fabrilis mollis.* Dusky red, loose, very heavy, extremely unctuous, with an oily gloss, colouring very much; burns very hard, externally little altered,

but internally resembles iron : in iron mines ; used as a colour, and also as an iron ore.

HARD RUDDLE, *Red chalk, Sanguine, Crayon rouge, Rubrica fabrilis*. Deep red, hard, heavy, solid, smooth, rather unctuous, colouring very strongly ; burns very hard and darker : used as a crayon, also as an astringent.

RED LUMBER STONE, *Terra sigillata rubra*. Red chalk ground, made into small cakes and sealed.

COMMON BOLE, *Bolus communis*. Red chalk ground and made into large round cakes : astringent : used for cattle, and in tooth powders.

RED STONE-OGHRE, *Ochra rubra*. Fine deep red, solid, harsh, very dusty, colouring, not altered by burning : Warwickshire.

RED OGHRE, *Ochra friabilis rubra, Sil Syriacum*. Fine strong red, heavy, loose, rough, dusty, colouring very much ; burns very hard and much paler.

INDIAN STONE-RED. Fine purplish red, very solid, hard, rough, dusty, colouring ; burns rather darker : all used as paints.

SPANISH BROWN, *Almagra, Ochra Hispanica*. Fine deep red, with a purple cast, heavy, not hard, rough, colours very much ; burns very hard and paler : used as a colour, and as a polishing powder.

INDIAN RED, *Rouge Indienne, Terra Persica, Ochra purpurea Persica*. Fine purple, extremely heavy, very hard, solid, with glittering particles, colours very much, burns very hard, with no change of colour ; from Ormuz ; used as a paint, does not glaze well.

VENETIAN RED, *Bolus Veneta*. Dull red, not very heavy, firm, but dusty, colouring, burns very hard, and of a duskier colour ; from Venice.

BROWN RED OGHRE. Very deep brown red, extremely heavy, firm, very rough, colours very much, slightly altered by burning.

RUNGA MATTA, *Terre de Patua*. Deep red, loose, friable ; imported from the banks of the Ganges. All these are used as pigments.

TERRA DI SIENNA. Deep brown or coffee colour, fine, compact, very light, very smooth and glossy, does not colour, when wetted marks a fine yellow upon paper ; burns to a pale reddish brown, but does not harden ; from Italy, and an inferior sort from Wycomb.

LONDON BLUE CLAY, *Glaise, Argile de Gentilli, Argile d'Issy*. Dark bluish ; used for luting vessels in distilling acids, but

requires another luting over it to keep it moist, and prevent its cracking; also for pottery, for lining ponds, and for modelling.

DEVONSHIRE BLUE CLAY. Makes white solid pottery, but is expensive.

DEVONSHIRE BLACK CLAY. Fat, tough; makes cream ware.

DEVONSHIRE CRACKING CLAY. Grey, burns to a beautiful white, but is apt to crack in the firing.

COMMON CLAY, *Argilla lateritia.* Drying, astringent, used for artificial stones, as bricks, &c. and common pottery.

FULLERS' EARTH, *Cimolia purpurescens, Smectis, Terra saponaria, Terra fullonica.* Greyish brown, but varying greatly, hard, very compact, rough, but scrapes glossy, does not colour, burns hard and yellowish brown; being very fine, and absorbing grease very readily; used to full woollens.

ROTTEN STONE, *Terra cariosa.* Ash brown, very light, moderately hard, dry, colouring, burns to a deep ash, but no harder; Derbyshire; used as a polishing powder.

UMBER, *Terra Umbria, Creta Umbria.* Fine pale brown, close, very light, dry, colouring, burns deep reddish brown, but no harder; used as a colour, and to give porcelain the shining ground called *ecaille*. From Turkey.—*Burnt umber.* Used for paint; makes a good shade for gold: both are excellent dead colours, having a good body.

WINDSOR LOAM, *Hedgerly loam.* Yellowish brown, very hard, heavy, harsh, colouring slightly, burns very hard and fine deep red; from Hedgerly near Windsor; used for setting the bricks of wind-furnaces, glass-house furnaces; also for making lutes, and coating glass and earthen vessels to be exposed to a strong fire.

BATH BRICKS. Windsor loam made into bricks; used for a coarse polishing powder.

FOUNDERS' CLAY, *Penny earth.* Dusky brown, very hard, heavy, harsh, not colouring; Woolwich, also Northamptonshire; used for moulds in large founderies.

CHEAM CLAY. Very light ash-colour, nearly white, compact, fine, very smooth, not colouring, burns pale white and very hard; used for the body of glazed gallipots.

BOHEMIAN TRIPOLI, *Polier schiefer, Creta cinerea, Schistus mollis, Terra Melia.* Light ash-colour, heavy, moderately hard, open, harsh, dusty but not colouring, not altered by burning; used for polishing, and as a plate powder.

TERRE VERTE, *Terra viridis.* Deep bluish green, very heavy,

hard, smooth, glossy, not colouring but marking a green line, coppery taste, burns very hard and to a dusky brown; from near Rome, also near Woolwich: used as a lasting, but not bright green paint.

ARGILE DE SAVEIGNES. Blue, very tough, sandy; used to make the French *poterie de gres*, or stone ware.

ARGILE DES FORGES-LES-EAUX. Blue; used to make glass-house pots, and stone ware.

STOURBRIDGE CLAY. Dark grey, made into bricks for building glass-house furnaces, and also into crucibles for violent heats.

WELSH CLAY. Used to make Welsh fire clumps for building the fire-rooms of steam-engine furnaces.

FRENCH CHALK, *Creta Brianzonica, C. Gallica, Morochtos, Leucogæa.* Greenish, semitransparent, compact, smooth, unctuous, glossy, not colouring, scrapes white, marks an unctuous silvery line; burns very hard and white; astringent, used to mark woollen cloth, to take out grease, and cause boots to slip on easily; frequently confounded with Spanish chalk.

MYRSEN, *Meer schaum, Keffekil, Marga viridescens.* Pale greyish green resembling tallow dropped upon brass, close, heavy, smooth, unctuous, glossy, not colouring, burning extremely hard and pale white; used as soap, and to make the large bowls of German tobacco-pipes.

BLACK CHALK, *Drawing slate, Pierre d'Italie, Crayon noire, Schistus pictorius.* Fine black, compact, laminated, slightly smooth, colours and writes, burns white and friable, some burns red; in coal mines; used as a crayon.

KILLOW, *Nod dû, Killoia molliuscula.* Fine black with a bluish cast, slightly smooth, friable, colours very much, tastes astringent, burns hard and grey; Wales: made into balls or sticks, used in painting.

HARD KILLOW, *Marking stone, Common black chalk, Black shale, Schistus carbonarius.* Fine black, firm, slightly flaky, dusty, colouring, burns to a fine white soft ash; used as a paint.

BURNT HARTSHORN, *Cornu ustum album, Cornu ustum.* Burn hartshorn until nearly white, grind, and wash.

SPODIUM PRÆPARATUM. Burn ivory, grind, and wash.

BROOM ASHES, *Cineres genistæ.* From broom stalks burned, diuretic, in dropsy.

DAULAKIE EARTH. Used in India to make sherbet; contains one-fifth of acidulous sulphate of iron.

STONES AND GLASSES.

THE FIVE PRECIOUS STONES. Garnet, hyacinth, sapphire, cornelian, emerald : cordial !

CRYSTAL POWDER. Heat quartz red hot, quench it in water, then grind in an agate mortar, or chert mill ; used in making glass, and is a good dryer for paints.

FLINT POWDER. Heat flints, quench in water, then grind to powder ; used in making fine pottery.

MAIDSTONE SAND, *Arena rotunda.* Fine, white, used to dry up ink, and to filter acid and corrosive liquors.—*Lynn sand.* White, used to make flint glass.

SEA SAND. Coarse ; when washed and dried used for scouring, and sand heats.

POWDERED GLASS, *Vitrum pulverisatum.* Powdered as crystal, or flints ; used to filter acids ; also glued upon paper as a polishing powder, and to wear down corns upon the feet, after the feet have been well soaked and dried, likewise to blow into the eyes to wear down any excrescence.

EMERY, *Smyris, Smerillus.* Extremely hard ; ground in mills, and sorted by being stirred with water, the water left to settle for a determinate number of minutes, then drawn off into another vessel, and left finally to deposit the powder with which it is loaded ; used for polishing, either in the state of powder, or glued upon paper for scouring : emery stones from Jersey and Naxos.

POTHEE D'EMERY. The sludge that falls from lapidaries' mills, made into balls for polishing.—*Moule.* The sludge of the grindstones used in grinding cutlery.

PIERRE A L'EAU TENDRE. Greenish or brownish grey, easily rubbed to powder in water, powder used to polish metals.

WATER-OF-AYR STONE. Used for polishing mathematical instruments.

PUMICE STONE, *Lapis pumex, Pumex.* Spongy, swims upon water ; used whole as a kind of file, in powder as a polishing powder, and added to some dentrifices.

LANCET STONE. A green soft hornstone, found in some parts of the old pavement in London : the only known material on which lancets can be set ; said to come from Germany.

HONE, *Pierre à rasoir.* Yellow, with a bed of black slate clay, used with oil, but soap is much cleaner ; from Namur.

OIL STONE. Dark greenish grey, from Turkey.

PIERRE A L'EAU DUR. Greenish, compact, scaly, paler than lancet stone: all are used to sharpen cutlery.

MUSCOVY GLASS, Isinglass, Talc, Talcum. From Russia, in square lumps, separable into flakes of amazing thinness; used to glaze ships' windows, as not liable to break when great guns are fired; also in microscopes to confine objects.

TALC, Ubruc. Imported from the East Indies, in round pieces, separable into scales; used to silver paper.

IRISH SLATE, Alum slate, Lapis Hibernicus. Sweetish, agglutinant in bruises, fractures, a spoonful in beer.

ENGLISH TALC, Asbestos. Fibrous; used to make wicks for lamps, and cloth which is incombustible by a modern heat; also to absorb oil of vitriol and prevent its being accidentally spilled from the bottles sold with chemical matches.

LIME-STONE, Lapis calcarius; Marble, Marmor. Both are used in coarse powder to ascertain the strength of acids, to yield carbonic acid gas while dissolving in them, 100 gr. yielding about 100 cub. in., or to make lime: marble powder.

STONE LIME, Oxide of calcium, Calx viva, Calx. From limestone, or marble, by a red heat; corrosive, antacid, depilatory: used for cements, to make lime-water, and render the alkalies caustic: composed of 2.5 calcium, and 1 oxygen; equiv. 3.5.

OSTEOCOLLA. Agglutinant; used in fractures, ℞j, night and morning.

GYPSUM, Sulphate of lime. Used as a cement; also as a forcing manure: composed of 3.5 lime, 5 acid, and 2.25th water.

RAW PLASTER OF PARIS. Differs from gypsum in containing carbonate of lime, which causes it to set firmer in moulding, and also fits it for slowly absorbing the acid of wine; it renders cloudy white wines transparent.

BOILED PLASTER OF PARIS, Burned Gypsum. Used as a cement, and to make models of statues.

CAWK, Heavy spar, Derbyshire white, Spathum ponderosum, Sulphas baryta. Found in mines; used to mix with flake white, to make muriate of barytes, and lately sold for lapis calaminaris, but it is not soluble in spirit of vitriol.

PERMANENT WHITE, Artificial sulphate of barytes. Precipitate muriate of barytes by oil of vitriol, or a solution of Glauber's salt; used to mark jars in laboratories, as it is affected by a very few substances.

RAT'S STONE, *Witherite Terra ponderosa, Carbonas barytæ.* Found in mines; used as a poison for rats, and to prepare muriate of barytes.

KEMP'S WHITE, *Precipitated carbonate of barytes.* Witherite q. p., spirit of salt q. s., dissolve, add subcarbonate of ammonia to precipitate the white, wash, and dry in cakes for use.

MORVEAU'S WHITE. Dissolve cream of tartar in water, and add lime-water as long as any sediment falls, wash and dry.

ZAFFRE, *Safflor, Saffra.* One part of roasted cobalt, ground with two or three parts of very pure quartzose sand; used as a blue colour for painting glass; from Saxony.

SMALT, *Powder blue, Smalta, Azurum.* From roasted cobalt, melted with twice or thrice its weight of sand, and an equal weight of potash; used in painting, and getting up linen: from Saxony.

ULTRA-MARINE BLUE, *Caruleum ultramontanum.* Lapis lazuli 1lb. is heated to redness, quenched in water, and ground to a fine powder; to this is added yellow rosin 6 oz., turpentine, bees' wax, linseed oil, ana 2 oz., previously melted together, and the whole made into a mass; this is kneaded in successive portions of warm water, which it colours blue, and from whence it is deposited by standing, and sorted according to its qualities: a fine blue colour with poppy oil; East Indian lapis lazuli.

ULTRAMARINE ASHES, *Sander's blue.* The remains left after the extraction of ultramarine, the wax and oil being burned away, and the ashes washed; inferior in colour.

EGYPTIAN AZURE. Carbonate of soda 15 oz., calcined flints 20 oz., copper filings 3 oz., mix and heat together for two hours: a fine sky blue.

FLUXES FOR ENAMEL COLOURS. Flint powder 4 oz., flint glass 12 oz., red lead 16 oz., calcined borax 3 oz. Melt in a Hessian crucible; keep it melted for several hours in a steady heat, then pour it out into water, and grind it in a white biscuit-ware mortar.

2. Flint glass 10 oz., white arsenic and nitre, of each 1 oz.

3. Flint glass 3 oz., red lead 1 oz.

4. Flint glass 16 oz., red lead 19 oz., borax (not calcined) 11 oz.

5. Flint glass 6 oz., red lead 8 oz., flux, No. 2, 4 oz.

YELLOW ENAMEL. Red lead 8 oz., oxide of antimony 1 oz., oxide of tin 1 oz., calcined together; of this take 2 oz., flux, No. 4, 3 oz.

ORANGE ENAMEL. Red lead 12 oz., red sulphate of iron 1 oz.,

oxide of antimony 1 oz., flint powder 3 oz.; calcine and melt with flux 50 oz.

DARK RED ENAMEL. Sulphate of iron, calcined dark, 7 oz., flux, No. 1, 18 oz., colcothar 1 oz.

LIGHT RED ENAMEL. Red sulphate of iron 2 oz., flux, No. 1, 6 oz., white lead 3 oz.

BROWN ENAMEL. Manganese 10 oz., red lead 32 oz., flint powder 16 oz.—Used to cover watches and other toys.

PASTE, Strass. Rock crystal 6 Troy oz., red lead 9 oz. 5 dwt., fine pearl ash 3 oz. 7 dwt. $\frac{1}{2}$, boracic acid 7 dwt. $\frac{1}{2}$, oxide of arsenic 5 grains: to be kept in quiet fusion for at least 24 hours, in a Hessian crucible, and cooled gradually. Used to imitate diamonds in jewellery, and as a basis for making artificial gems.

FALSE TOPAZ. Paste 1 Troy oz. 15 dwt., glass of antimony 1 dwt. $\frac{1}{2}$, Cassius' purple precipitate 1 gr.

FALSE RUBY. Paste 5 oz., oxide of manganese 2 dwt. $\frac{1}{2}$.

FALSE EMERALD. Paste 5 oz., oxide of copper 1 dwt. 15 gr., oxide of chrome 2 gr.

FALSE SAPPHIRE. Paste 8 oz., oxide of cobalt 2 dwt. 9 gr.

FALSE AMETHYST. Paste 16 oz., oxide of manganese 15 to 24 gr., oxide of cobalt 1 gr.

FALSE ORIENTAL GARNET. Paste 17 dwt. 19 gr., glass of antimony 8 dwt. 18 gr., oxide of manganese 2 gr.

All used as false gems: many other compositions are made, almost every artist having his own receipts.

CHINA BLUE, Royal smalt. Oxide of cobalt, melted with felspar and a little American potash. Used to paint pottery ware, and as a pigment.

TABASHEER, Tabaxir. A stony concretion formed in the joints of the bamboo cane. Used in diseases arising from obstructions.

SHELL LIME, Calx e testis. From oyster or other shells, by calcination: corrosive, antacid, depilatory; used for cements, to make lime water and render the alkalies caustic. Used the same as stone lime.

LIME-WATER, Aqua calcis, Liquor calcis. Fresh burned lime 8 oz., pour upon it boiling water a gallon, cover up close, and, when cold, keep the whole in a glass bottle, pour off the clear when wanted: astringent, antacid, $\bar{3}$ iv to lb. j, in small draughts; its taste is best covered with 1-5th of milk; also externally to ulcers.

ALKALIES AND THEIR CARBONATES.

As the two subcarbonates of soda and of potash are sold in a solid form, their strength is attempted to be ascertained by the quantity of sulphuric acid that a solution of 100 gr. of either of them requires for its saturation: this operation is called alkali-metry, and tubes graduated into 100 parts, and containing the necessary quantity of acid to saturate 100 grains of the pure subcarbonates are used, called alkalimeters; but as the sulphuric acid acts upon the sulphates and sulphurets of these alkalies, and which are usually present, the essay is not a whit more accurate than the method of the German soap boilers, who merely pour a quart of water upon a pound of ashes, and then putting in a piece of Dutch soap, add water in small portions until the soap sinks. The ashes are the stronger as they require more water before the soap sinks.

POTASH.

ASH BALLS, *Cineres herbarum*. Principally the ashes of fern, made up into balls: used for washing instead of soap, and to clean paintings.

POT-ASH, *Alumen catinum*. From land plants burned to ashes, the ashes elixated with water, and the ley evaporated to dryness. From America.

PEARL-ASH, *Potasse de New York*, *Potasse rouge d'Amerique*, *Cineres perlati*. From pot-ash, by calcination, by a gentle heat to avoid melting, solution in water, filtration, and evaporation, stirring it all the time to granulate the salt. From America.—*Burnt lees of wine*, *Cendres gravellées*, *Cinis infectorius*, *C. fæcum*, *Cineres clavellati*, *Alumen fæcum*, *Potassæ subcarbonas impuras*, *Potassa impura*. From the ashes of lees of wine, grape cake, and vine twigs, very pure; preferred by the continental dyers. From France. This is used for preparing the subcarbonate for medical uses.

SALT OF TARTAR, *Sal tartari*, *Kali ppm. e tartaro*, *Kali e tartaro*, *Subcarbonas potassæ purissimus*, *Potassæ subcarbonas e tartaro*. Burn argol in a crucible, powder and calcine till it is nearly white; dissolve in water, filter and evaporate. Composed of 6 pot-ash, 2.75 carb. ac., with 2.25 water: equiv. 11; 100 gr. saturate 70 of oil of vitriol.

SALT OF WORMWOOD, *Sal absinthii*. Wormwood burned to ashes, dissolved in water, the solution filtered, and evaporated to dryness.

TOBACCO ASHES. The smuggled tobacco seized by the English government is all burned, and the ashes alone sold.

TREVES POTASH, *Potasse de Treves*, is as strong as pearl-ash.

VOSGES POTASH, *Potasse de Vosges*. Used in France, the weakest of those usually sold.

DANTZIC POTASH. Resembles Russian potash, but is rather weaker.

RUSSIAN POTASH, *Cineres Russici*. From beech, birch, poplar, or alder, burned to ashes, part of the ashes elixated with water, and the ley used to moisten the remainder of the ashes, covering fresh billets of wood with the moistened ashes, and setting the pile on fire. From Russia and Sweden, in large black lumps as hard as a stone, with a sulphureous smell: solution green, tinging silver dark purple. Petersburg.

TRAVANCORE POTASH. From cocoa-nut branches.—*Mara oppoo*. From cocoa-nut and plantain leaves.

SUBCARBONATE OF POTASH, *Kali præparatum, Subcarbonas kali, Carbonas potassæ, Potassæ subcarbonas*. Pour upon burnt lees of wine an equal weight of boiling water; filter and evaporate until the liquor grows thick, then remove the fire, and stir the salt continually, until it concretes into small grains. As burnt lees of wine are now with difficulty procurable in England, pearl-ash is used for them. This is used in acidities of the primæ viæ, and in glandular obstructions. Dose from gr. x to ʒss properly diluted. The incompatibles are, the mineral acids, muriate and acetate of ammonia, sulphate of magnesia, lime, and lime water, all the metallic salts.—*Officinal preparation.* Liquor potassæ subcarbonatis, *L. D.*

NITRE FIXED BY CHARCOAL, *Subcarbonate of potash, Nitrum a carbonibus fixatum*. Nitre 16 oz., charcoal powder 4 oz.; melt the nitre, and throw into it the charcoal powder, until it ceases to take fire: produces 13 or 14 oz. of subcarbonate of potash, equal to salt of tartar.

WHITE FLUX, *Cornish flux, Fluxus albus*. Nitre and tartar ana p. æq.: deflagrate as before.—All these alkalies are diuretic, in doses gr. v. to ʒj, cathartic in larger doses; they are used in making glass, in bleaching and scouring cloth, and to precipitate alum.

SALINE OIL OF TARTAR, *Oil of tartar, Oleum tartari per deliquium, Aqua kali*. Spread salt of tartar, pearl-ash, or potash thin, on plates, in a damp cellar, and when it has run into water, strain through linen; used in scouring.

LIQUOR POTASSÆ SUBCARBONATIS, *Aqua subcarbonatis kali*. Subcarbonate of potash ʒxij, distilled water ʒxij; dissolve and

filter. — *Henry's carbonate of potasse water*, is made up to the spec. grav. of 1.248, that it may saturate an equal measure of sulphuric acid, spec. grav. 1.135, or of nitric acid, spec. grav. 1.143, or of muriatic acid, spec. grav. 1.074. Used in assaying mineral waters.

BICARBONATE OF POTASH, *Kali aëratum, Potassæ carbonas*, P. L. 1824. Dissolve subcarbonate of potash 1lb., in water 3lb., and pass through the liquor the gass expelled by adding pounded marble to dilute sulphuric acid; the carbonate of potash crystallizes as fast as it is formed: preferable, as being milder tasted than the subcarbonate; used to form effervescent mixtures. Composed of 6 potash, 5.5 carb. acid, and 1.125 water; equiv. 2.625. Use the same as that of the Subcarbonas potassæ already noticed.

2. Dissolve pearl-ash in water, add bran, or saw-dust, to soak up the liquor, put it into a crucible, cover, lute the joint, and heat the crucible till it is red hot. When cooled, wash out the salt, evaporate and crystallize, until no more crystals can be obtained; then heat the remaining liquid with fresh bran, and proceed as before.

LIXIVIUM SAPONARIUM, *Pure potash water, Solution of potash prepared with lime, Eau seconde, Aqua kali puri, Liquor potassæ*. Upon quick lime 3vj, pour boiling distilled water lb. vj, and add subcarbonate of potash lb. j, dissolved in water 2lb.: cover the vessel, and when cool filter through cotton cloth; if it effervesce with a dilute acid, it must be treated again with fresh lime. A pint should weigh exactly 3xvj; if it weigh more, for every drachm of excess add 3ss of distilled water to each lb. Troy; if less, evaporate some part of it. Used in calculous complaints.

AQUA KALI CAUSTICI, *Aqua potassæ*. Lime 8 oz., add water 24 oz., when cold add subcarb. pot. 6 oz.; strain, adding fresh water, so as to get 36 oz.—*Henry's pure potash water*. Is made up to the spec. grav. 1.1; two measures of it have the same effective strength as one measure of his carbonate of potash water. Used in analyzing substances.

POTASH PREPARED WITH ALCOHOL. Evaporate a solution of salt of tartar, nitre fixed by charcoal, or the white flux, made caustic by quicklime, to the consistence of syrup, cool to about 130 degrees of Fahrenheit, add three times its weight of alcohol, and keep for some days, draw off the clear, wash the bottoms with fresh alcohol, and add to it the other. Distil off 2 oz. out of 3 of the alcohol used, evaporate the remainder in a silver basin, taking off the scum; when nearly red hot, pour it out on a very dry marble slab, or silver basin, and break it up as soon as it fixes. To be kept in small parcels, in very dry, well-stopped vessels.

CAUSTIC POTASH, *Pure potash, Hydrate de deutoxide de potassium, Lapis infernalis, Lapis septicus, Kali purum. Potassa, P. fusa, Kali causticum.* Evaporate pure potash water till the boiling ceases, and the salt melts smoothly like oil, then pour it out on an iron plate, and cut it into pieces: caustic, but is apt to spread. Composed of 6 potash, and 1.125 water; equiv. 7.125.

NITRE FIXED BY METALS, *Nitrum a metallis fixatum.* **Regulus** of antimony 4 oz., melt in a large crucible, add purified nitre 20 oz. at three separate times, an hour apart; keep the matter in fusion for some time. Very caustic.

MINERAL ALKALI OR SODA.

BRITISH BARILLA. The ashes of *Salicornia Europæa* calcined into a porous mass. Very poor in subcarbonate of soda.

KELP, *Varecq. Soude de Normandie.* The ashes of *Fucus vesiculosus*, and several other species; contains scarcely any subcarbonate of soda, never more than 3 in the 100.

SMYRNA BARILLA, *Cendre du Levant.* From *Mesembryanthemum Copticum* and *Salsola kali*; contains about 40 in the 100 of subcarbonate of soda.

BARILLA ASHES, *Spanish barilla, Alicant barilla, Soda Alicantina, S. Alonensis, Sal alkali, Soda impura, Carbonas sodæ impura.* From *Mesembryanthemum nodiflorum* burned with *Salsola sativa*; contains about 25 in the 100 of subcarbonate of soda.

EAST INDIAN BARILLA ASHES. From *Salsola Indica*, *S. nudiflora*, and *S. elata*.

CAPE BARILLA. From *Salsola aphylla* and *S. soda*.—*Marseilles barilla.* From *Salsola soda*.—*Sicily barilla.* From *Salsola tragus*.—*Teneriffe barilla.*

BLANQUETTE, *Soude d'Aigues mortes.* The ashes of *Salicornia Europæa*, *Salsola tragus*, *Atriplex portulacoides*, *Salsola kali*, and *Statice limonium*: contains about 3 to 8 in the 100 of subcarbonate of soda.

SALICOR. SOUDE DE NARBONNE. The ashes of *Salicornia annua*: contains about 14 or 15 in the 100 of subcarb. of soda.

ALEXANDRIA BARILLA, *Roquette, Rochetta Alexandrina.* From *Salsola Arabica*, with *Mesembryanthemum nodiflorum*, and *Plantago squarrosa*.—*Soude de Bourde.* Very bad, stinking.

POON HEER. A whitish earth, containing much subcarb. of soda, found in the East Indies.

NATRON. From lakes dried up by the summer's heat. Is a sesquicarbonate of soda mixed with salt, and sulphate of soda. Imported from Egypt.—*Trona.* A similar mineral, imported

from Tripoli. Both are washed for the sesquicarbonate of soda they yield.—*Over munnoo*. Resembles trona; East Indies.

SESQUICARBONATE OF SODA. Obtained from natron and trona; composed of 4 soda, 4.125 carb. ac. and 2.25 water; equiv. 10.375. Used in making soda water.

UNREFINED MINERAL ALKALI, *Gaz oppoo*. In regular very thin whitish cakes; having been dried in ponds: imported from the East Indies.

SUBCARBONATE OF SODA, *Salt of soda, Salt of barilla, Sal alkali, Natron præparatum, Sodæ subcarbonas, Carbonas sodæ*, P. E. and D. Dissolve Spanish barilla ashes 1lb. in water 1 gall., filter and evaporate to 2lb., set it aside to crystallize; antacid, deobstruent, gr. x—3ss, bis terve in die.—*Official preparation.* Sodæ subcarbonas^s exsiccata, *L. D.*; sodæ carbonas, *L.*

2. By calcining 180lb. ea. of Glauber's salt and chalk, with 110lb. of charcoal dust, washing out the salt and crystallizing; produces 300lb. of salt, of which 100lb. is pure subcarbonate of soda.

3. By mixing a solution of Glauber's salt with a solution of lime in pure pyroligneous acid, boiling for some time, filtering, evaporating to dryness, calcining the acetate of soda thus obtained, redissolving in water, and crystallizing.

4. Is obtained as a secondary product in making mineral yellow. Composed of 4 soda, 2.75 carb. ac. and 11.25 water; equiv. 18. Used largely in making hard soap, glass, and dyeing.

HENRY'S CARBONATE OF SODA WATER. Dissolve subcarbonate of soda in water, so that the solution may have the sp. gr. of 1.11: 2 meas. are equal in saturating power to one of his carbon. of potash water.

SODÆ SUBCARBONAS EXSICCATA, *Carbonas sodæ siccatum*. Melt subc. of soda until it becomes dry, stirring it continually: antacid; used also in calculous complaints, in small doses frequently repeated, so as to take ʒj to ij in the day.

BICARBONATE OF SODA, *Sodæ carbonas*, P. L. 1824. Pass the gas from pounded marble dissolving in diluted sulphuric acid through a solution of subcarb. of soda in water, as in making bicarbonate of potash; antacid, gr. x ʒj.

2. Calcine subcarb. of soda with bran, as in making bicarbonate of soda; comp. of 4 soda; 5.5 of carb. acid, and 1.125 of water; equiv. 10.625

CAUSTIC SODA, *Pure soda*, is prepared by acting upon subcarb. of soda with quicklime, as in making caustic potash.

SODA PREPARED WITH ALCOHOL. Also prepared in a manner similar to potash.

POTASSE D'AMERIQUE, *Petite potasse bleue*. Caustic soda melted with salt, lime, and oxide of copper; sold to the Paris laundresses for American potash, as they object to using soda.

SOAP LEY. From barilla ashes mixed with one-third their weight of quicklime, and the caustic soda and salt washed out with water. Is very various in its strength; and weak leys are afterwards drawn from the same ashes, by pouring on more water, and draining it off, for three or four times.

HENRY'S PURE SODA-WATER. From pure caustic soda dissolved in water, so as to have the sp. gr. of 1.07; is of the same effective strength as his carbonate of soda-water.

VOLATILE ALKALI OR AMMONIA.

CARBONATE OF AMMONIA, *Subcarbonate of ammonia*, *Volatile sal ammoniac*, *Bakers' salt*, *Sesquicarbonate of ammonia*, *Sal volatilis salis ammoniaci*, *Ammonia præparata*, *Ammonia carbonas*, *Ammonia subcarbonas*. Sal ammoniac 1lb., powdered chalk 2lb.; mix accurately, and sublime. This is stimulant, antacid, diaphoretic, and antispasmodic, and is used in hysteria, dyspepsia, and chronic rheumatism. Dose gr. v to xv in pills, or in any bland fluid. *Officinal preparation*.—*Ammonia bicarbonas*; *Liquor ammonia acetatis*; *Cuprum ammoniatum*, *L. E. D.*

2. Sal ammoniac, subcarb. of soda, ana lb. j; sublime. P. D. Stimulant, and used as an errhine, like the spirit. Much used by the bakers, to make bread in a hurry: the bread is yellowish, and the cells very small, but it may be baked as soon as the dough is mixed. When fresh-made is composed of 2.125 amm. 4.125 carb. acid, with 1.125 water; equiv. 7.375. By keeping the outer surface loses a portion of its ammonia, and is changed into bicarbonate, which has not the pungency or volatility of the sesquicarbonate.

SPIRIT OF HARTSHORN, *Spiritus cornu cervi*, *Liquor volatilis cornu cervi*. From hartshorn, by distillation; when rectified, has a pleasant refreshing odour.

SALT OF HARTSHORN, *Volatile salt*, *Smelling salt*, *Sal cornu cervi*, is obtained in the same process with spirit of hartshorn, and is purified by mixture with 1-8th of chalk and sublimation with a gentle heat: pleasant smell. Salt of oxteeth is sold for it, in France.

SPIRIT OF OXTEETH, *Salt of oxteeth*. Nearly equally pleasant as spirit of hartshorn, for which they are sold.

ROUGH BONE SPIRIT, *Liquor volatilis ossium*. From bones which have been boiled for their grease by distillation in iron pots or cylinders; separating the oil and salt by filtration; 1-5th more

alkali is obtained in unluted vessels than in luted. Hales says, subcarb. of ammonia heated absorbs air.

RECTIFIED BONE SPIRIT, *Salt of bones, Sal ossium*. The rough spirit, distilled from 1-8th of wood ashes, or charcoal powder; the salt of bones first arises; when it begins to melt by the spirit that succeeds, the distillation is stopped for the present, the salt taken out, and then distillation begun again, till nearly the whole of the liquor has come over.

SPIRIT OF URINE, *Spiritus urinæ, Salt of urine*. Obtained largely from urine which has been kept a little while; for if fresh, the water must be distilled off before the spirit will appear.

SPIRIT OF WOOD SOOT, *Spiritus fuliginis, Salt of wood soot, Sal fuliginis*. From wood soot; strongly scented, anti-epileptic.

LIQUID MILD VOLATILE ALKALI, *Spirit of sal ammoniac, Spiritus salis ammoniaci, Aqua ammoniæ, P. L. Aqua carbonatis ammoniæ*. Subcarb. of potash 3lb., sal ammoniac 2lb., water 8lb.; distil to dryness.

LIQUOR AMMONIÆ CARBONATIS, *Liquor ammoniæ subcarbonatis*. Subcarb. of ammonia 3iij, distilled water lb. j; dissolve and filter: stimulant, gtt. xx to 3j, also as an errhine.

Henry's carbonate of ammonia-water. Dissolve subcarbonate of ammonia in water, so that the sp. gr. may be 1.046: two measures are equal in saturating acids to one of his carbonate of potash-water. Used in analysis.

AMMONIACAL LIQUOR. From coals; obtained in those gas-works that use coals; a chaldron yielding about 200 gallons. Used to make sal ammoniac.

CAUSTIC VOLATILE ALKALI, *Spirit of sal ammoniac with lime, Aqua ammoniæ puræ*. Lime, water ana lb. ij; slake and add sal ammoniac lb. j, boiling water lb. vj, cover the vessel immediately; when cold pour off the liquor, and distil with a gentle heat lb. j.

AQUA AMMONIÆ CAUSTICÆ. Lime lb. ij, water lb. j, slake and cover it up: the next day add sal ammoniac 3xvj, water lb. v, distil 3xxj. The specific gravity ought to be .934; or a bottle holding 3xij of water should hold 3xj—3iijss of this fluid.

AQUA AMMONIÆ, P. E. Lime lb. jss, water 3ix, slake, when cool add sal ammoniac lb. j; distil into distilled water lb. j, until the retort becomes red hot.

LIQUOR AMMONIÆ, Lime 3vj, water lb. j; slake, and cover up for an hour, then add sal ammoniac 3vij, boiling water lb. ij, and cover till cold, then strain and distil 3xij. Specific gravity should be .960; or a bottle holding 3xij of water should hold 3xjss of this fluid. This is seldom given internally—externally,

as a rubefacient, or vesicant. — *Principal officinal preparation.* Ammoniae hydrosulphuratum, *D. E.*; Linimentum ammoniae, *D. L.*; Liniment. camph. comp., *D. L.*; Liniment. hydrargyri, *L.*

Henry's pure ammonia-water. Made up to the sp. gr. of .970; one measure is equal in saturating acids to one measure of his carbonate of potash-water. Used in testing liquors.

LIQUOR VOLATILIS CORNU CERVI CUM CALCE. Spirit of hartshorn 4lb., fresh slaked lime 1lb., distil into water kept cool, and, if necessary, adjust its specific gravity by the addition of distilled water, or by repeating the distillation: antacid, stimulant.

NEUTRAL SALTS.

Water, when saturated with any one salt, will dissolve another or even several other salts; hence a small quantity of water, poured upon a large mass of impure salt, saturates itself with the most abundant, and then, dissolving the other salts which render it impure, leaves the remainder in a state of purity.

SALTS OF ALUMINE.

ALUM, *Lump alum, Sulphate of alumine and potash, Rock alum, Alun de roche, Alun de glace, Alumen vulgare, Sulphas aluminæ.* In large lumps, formed by pouring a solution at 50 deg. Baume into barrels, where it forms a nearly solid mass. Obtained from different minerals by elixation and crystallization, previously adding potash or potash and urine: tonic, astringent, gr. v.—xx; in gargles, ʒss to water ʒiv; in eye-waters and injections, gr. xij to water ʒvj; used largely by the dyers, also to harden tallow for mould candles, and many other purposes in the arts.

ROACH ALUM, *Alun fin, Alumen crystallinum, A. rupeum.* Crystallized from a solution at 25 or 30 deg. Baume. In pyramidal lumps of crystals; preferred by the dyers in certain processes.

ALUN DE LIEGE. Impure, but by solution and recrystallization is rendered very pure.

ITALIAN ROACH ALUM, *Alun de Rome, Alumen Romanum, A. rubrum.* In crystals, pale red when broken, and covered with a reddish efflorescence: not refined; used by the dyers; contains no ammonia nor iron.

TURKEY ALUM, *Alun de Smyrne, Alumen de Rochi.* From the original manufactory of Roccha, in Syria; in pieces the size of an almond to that of an egg, covered with a reddish efflorescence.—The potash sulphates of alumine are composed of 20

sulph. acid, 6·75 alumine, 6 potash, and 28·125 water: equiv. 60·875.

AMMONIA ALUM, *Sulphate of alumine and ammonia*, *Alun ammoniacal*. From the same minerals as potash alum, but crystallized by means of urine or sulphate of ammonia. In small scaly crystals, rather less soluble in water than potash alum; lose their ammonia in time. Used in dyeing certain colours. Composed of 20 sulph. acid, 6·75 alumine, 2·125 ammonia, and 28·125 water; equiv. 57.

BURNT ALUM, *Alumen ustum*, *A. exsiccatum*, *Sulphas aluminæ exsiccatum*. By melting common alum, and keeping it on the fire until it cease to boil: used in colic, ℞ for a dose; externally escharotic: 5lb. yield 3lb.

SALTS OF BARYTES.

MURIATE OF BARYTES, *Chloride of barium*, *Hydrochlorate of barytes*, *Murias barytæ*. Dissolve carbonate of barytes, or rat's stone, 1lb., in spirit of salt 1lb., previously mixed with water 3lb.; filter and crystallize by repeated evaporation.

2. Mix sulphate of barytes, i. e. cawk, 2lb., with charcoal 4 oz.; keep it red hot in a covered vessel for six hours, boil the mass in water 8lb., strain, and to clear the liquor add spirit of salt as long as it produces any effervescence; lastly crystallize by evaporation. Vermifuge, alterant; used gr. j, bis terve in die, in cancer and scrofula.

SOLUTIO MURIATIS BARYTÆ. *Murias barytæ* ʒj, distilled water ʒiij; dissolve: deobstruent, gtt. v—viij, bis terve die, in cancer and scrofula: externally escharotic, to fungous ulcers and specks on the cornea.

ACETATE OF BARYTES. By dissolving carbonate of barytes in pure acetic acid, evaporating and crystallizing.

NITRATE OF BARYTES. By dissolving carbonate of barytes in nitric acid, evaporating and crystallizing.

The solutions of both the acetate and nitrate of barytes are used to discover sulphuric acid, and the crystals of the nitrate to discover, by fusion, potash, soda, or lithium in minerals.

SALTS OF LIME.

HYDROSULPHATE OF LIME, with sulphur (liquid). One part of sulphur, two parts of subcarbonate of lime, and nine of water: these are to be added together, and boiled in an earthen vessel, until completely saturated; the liquid is then to be decanted and filtered. It is of a deep brown colour; has been found useful in psora: 1 oz. and a half to be rubbed in three times a day.

MURIATE OF LIME, *Hydrochlorate of lime*, *Murias calcis*. Dissolve the mass left in the distillation of lime with sal ammoniac in water; filter and evaporate to dryness.

2. Dissolve white marble or chalk in muriatic acid, and evaporate to dryness. Used for preparing the liquid muriate employed as a substitute for muriate of barytes.

LIQUID SHELL, *Liquor calcis muriatis*. *Murias calcis* ʒij, distilled water ʒiij; dissolve and filter.

AQUA CALCIS MURIATIS. Chalk ʒj, diluted muriatic acid ʒij; dissolve and filter.

SOLUTIO MURIATIS CALCIS. White marble 9 oz., muriatic acid 16 oz., water 8 oz., dissolve, evaporate to dryness; dissolve the dried mass in an ounce and a half its weight of distilled water, and filter: deobstruent, in scrofulous and glandular diseases, gtt. xl to ʒj, diluted, bis terve die: seems to be the most active ingredient in mineral waters.

PURIFYING LIQUID, *Solutio oxymuriatis calcis*. Com. salt 4 oz., black oxide of manganese in powder 1½ oz., oil of vitriol 3 oz., water 6 oz., mix, distil, and pass the gas into a bottle containing quicklime 2 oz., water 62 oz.; strain the liquor. Used as a lotion in venereal sores, also diluted with water, ¼ pint to a gallon, to destroy the odour of sick rooms, manufactories using animal entrails, and houses of office; and still weaker to sweeten game.

SALTS OF MAGNESIA.

EPSOM SALT, *Sal Epsomensis*, *S. catharticus amarus*, *Magnesia vitriolata*, *Magnesia sulphas*. Obtained from sea-water, after the common salt has been crystallized.

2. From magnesian limestone, by washing out the lime with rough pyroligneous acid, or other acid, then dissolving the magnesian residuum in oil of vitriol, and crystallizing: Epsom salt is purgative, ʒj—ʒij; allays the pain of the colic; also used in purgative clysters.

SALTS OF AMMONIA.

GREY SAL AMMONIAC, *Sal ammoniacus*, *Muriate of ammonia*, *Hydrochlorate of ammonia*, *Murias ammoniæ*, *M. ammoniacus*. By subliming the soot formed by burning cows' or camels' dung: 26lb. of dung yield 6lb. of salt. Used in preparing *cesdres bleues* and other colours. From Egypt direct, and through the East Indies.

SAL AMMONIACUS PURIFICATUS. By dissolving grey sal ammoniac in water, evaporating and crystallizing.

WHITE SAL AMMONIAC. By adding oil of vitriol to bone spirit, crystallizing the product, mixing it with common salt, and subliming. In this process the residuum, by solution in water and crystallization, yields Glauber's salt.

2. By adding ground gypsum to bone spirit, straining, pouring the liquor upon common salt, and subliming.

3. By mixing the bittern of sea-water with putrid urine or bone spirit: diuretic, stimulant, and tonic: used internally, in doses of 5 to 20 grains, frequently repeated against agues; also added to Peruvian bark to increase its febrifuge power; externally stimulant, ℥j to water ℥viij, as a lotion in gangrene, indolent tumours, and chilblains. Used to give pungency to snuff, in dyeing to brighten certain colours, and by other artists for various purposes.

FLOWERS OF SAL AMMONIAC, *Flores salis ammoniaci.* Grey sal ammoniac broke into pieces, and sublimed either from an earthen body into aludels, or from a wide-necked retort into a large receiver: this mode of obtaining sal ammoniac in fine powder was adopted on account of its toughness and the difficulty of pounding it.

BENZOATE OF AMMONIA. By saturating subcarbonate of ammonia-water with benzoic acid; in crystals.

SUCCINATE OF AMMONIA. By saturating subcarbonate of ammonia-water with succinic acid; in crystals. Both are used in analyses to separate iron from manganese.

OXALATE OF AMMONIA. By saturating liquid oxalic acid with ammonia-water, evaporating, and crystallizing.

Oxalate of ammonia-water. By dissolving oxalate of ammonia in ten times its weight of water. Used to ascertain the presence of lime in waters.

SULPHATE OF AMMONIA, *Sal secretus Glauberi.* By adding dilute sulphuric acid either to sal ammoniac or ammoniacal liquor, evaporating and crystallizing; diuretic, aperitive.

SPIRITUS MINDERERI, *Aqua ammoniæ acetatæ, Liquor ammoniæ acetatis, Aq. acetatis ammoniæ.* Subcarb. of ammonia 2 oz., distilled vinegar q. s. (about lb. ij) as long as any effervescence is produced, or rather more: diaphoretic ℥ss; externally as a collyrium in ophthalmia.

HYDROSULPHATE OF AMMONIA, *Hydrosulphuret of ammonia, Ammonia hepatizata, Hydrosulphuretum ammoniæ, Ammonium hydrosulphuratum.* Pass the gas from artificial sulphuret of iron ℥iv, while dissolving in muriatic acid ℥viij previously diluted with 2½ pints of water, into a bottle containing pure ammonia-water ℥iv. Dose gtt. v, gradually augmented: used in diabetes.

2. Pass the gas through three bottles; the first containing a little water to absorb any muriatic acid that may come over; the second the ammonia-water; and the third filled with lime and water to absorb the superfluous gas, and prevent its getting into the laboratory, it being both highly deleterious and of a very disagreeable smell. Used as a test liquor for metals.

SUCCINAS AMMONIÆ LIQUIDUM PYROANIMALE, Unrectified salt of hartshorn \mathfrak{z} j, water \mathfrak{z} vj; dissolve, add succinic acid sufficient to saturate it; then filter; antispasmodic.

SALTS OF POTASH.

ROUGH SALTPETRE, *Sal petrae*, *Nitrum*. Found naturally efflorescing from the earth and certain stones, also from the rubbish of old buildings: obtained by elixiviation, adding, if necessary, wood ashes to supply the alkaline basis: East Indian.

REFINED SALTPETRE, *Nitre*, *Sal nitri*, *Kali nitratum*, *Potassa nitras*. Obtained from rough saltpetre, by redissolving it in water and crystallizing.

2. By adding only a small quantity of water to the rough nitre, letting it remain some time, and draining it off. A cooling diuretic in small repeated doses of gr. v—x each, every two hours; taken to \mathfrak{z} j it occasions bloody stools, and even death: a small piece dissolved slowly in the mouth frequently stops a sore throat in the beginning; used also in gargles: employed in artillery and fireworks.

SORE-THROAT SALT, *Lapis prunellæ*, *Sal prunellæ*. Melt nitre 1lb., inject upon it gradually flowers of sulphur 2 oz., and pour it out into moulds, either balls or cakes.

CRYSTAL MINERAL. Melt nitre 16 oz., and when it flows smooth, pour it into warm moulds; yields about 8 oz.

MACQUER'S NEUTRAL ARSENICAL SALT, *Arsenate of potash*, *Kali arsenicatum*, *Arsenias kali*. Distil white arsenic and nitre ana p. æq.: dissolve the residuum in water, evaporate and crystallize: tonic, gr. 1-16th to 1-4th in pills; used also in preparing cobalt blue.

MURIATE OF POTASH, *Hydrochlorate of potash*, *Sal febrifugus Sylvii*, *Spiritus salis marini coagulatus*. By saturating spirit of salt with pearlsh, evaporating and crystallizing.

2. By heating or distilling sal ammoniac and pearlsh, dissolving the residuum in water, evaporating, and crystallizing: aperient, diuretic.

OXYMURIATE OF POTASH, *Chlorate of potash*, *Potassæ oxymurias*. Mix common salt 3lb., manganese 2lb., and add oil of vitriol 2lb., previously diluted with water q. s.; distil into a

receiver containing pearlsh 6 oz. dissolved in water 3lb.; when the distillation is finished, evaporate the liquid in the receiver slowly in the dark; the oxymuriate will crystallize first in flakes: stimulant, gr. j—ij; explodes when struck, or dropped into acids. Used for making matches for instantaneous lights, and for procuring oxygen gas.

BLEACHING LIQUID, *Eau de Javelle*, *Aqua alkalina oxymuriatica*. Common salt lb. ij, manganese lb. j; water lb. ij, put into a retort, and add gradually oil of vitriol lb. j; pass the vapour through a solution of subcarb. of potash ʒij in water ʒxxix, applying heat towards the last. Specific gravity is 1.087; stimulant, antisymphilitic. Used to bleach linen, take out spots, and to purify air impregnated with putrid exhalations.

SALT OF SORREL, *Quadraxalate of potash*, *Sal acetosellæ verus*, *Potassæ oxalæ*. From the leaves of wood sorrel bruised and expressed; the juice is then left to settle, poured off clear, and crystallized by slow evaporation: 1 cwt. of wood sorrel yields 5 or 6 oz.

2. From the leaves of sheep's sorrel, treated in the same manner.

3. By dropping subcarbonate of potash-water into a saturated solution of oxalic acid in water, when it precipitates, and may be separated by filtration: if too much alkali is added, it is taken up, and will require an addition of the acid to throw it down again; cooling. Used to make lemonade and whey.

VITRIOLATED TARTAR, *Tartarum vitriolatum*. Dissolve green vitriol in water, precipitate with oil of tartar, wash the precipitate, filter, evaporate, and crystallize.

NITRUM VITRIOLATUM, *Kali vitriolatum*, *Potassæ sulphas*. Dissolve the residuum left in distilling Glauber's spirit of nitre in water; add subcarb. of potash, if necessary, to saturate any superfluous acid, evaporate and crystallize.

2. Evaporate the liquid that is left in making *magnesia alba*, and crystallize: aperient and deobstruent, ʒj to ʒss; cathartic, ʒij to ʒvj: useful in visceral obstructions. Being very hard, it is used in compound powders to divide jalap or scammony while triturating with them.

SAL ENIXUM. Boil the residuum left in the distillation of saltpetre with green vitriol, strain and evaporate to dryness. Used as a flux by silversmiths and platers; also to adulterate cream of tartar, and being powdered and rubbed into the wood with a hard brush, to stop the ravages of the dry rot.

POTASSÆ SUPERSULPHAS. Dissolve the salt that remains in

distilling nitre with oil of vitriol in water, evaporate, crystallize, and dry the crystals: a cooling purgative, ℥j to ℥ij.

SULPHAS POTASSÆ CUM SULPHURE. Mix nitre and flowers of sulphur ana p. æq.; throw them by small portions into a red hot crucible, and let the mass cool. Aperient, deobstruent, and depurative; in cutaneous affections and obstructions of the viscera. In its medical effects it agrees with sulphureous mineral waters, which contain a proportion of neutral salt. A saline solution analogous in operation to that of the Harrowgate waters may be made, by dissolving two drachms of this salt, one drachm of cream of tartar, and one ounce and a half of sulphate of magnesia, in two pounds of water. Dose ℥ij to ℥iv.

Sal polychrestus Glaseri. Proceed as before; but as soon as the deflagration is over, raise the heat, keep the mass in fusion for some time, pour it out, dissolve it in water; filter, evaporate, and crystallize.

RED ARGOL, *Tartarum rubrum.* From red wines.

WHITE ARGOL, *Tartarum album, Supertartris potassæ impurus.* From white wines; the essential salt of the grape deposited during the fermentation of the wine, especially in the northern wine countries, where the fruit does not ripen thoroughly. Used as fluxes, for preparing the best subcarbonate of potash, in dyeing, and many arts.

CRYSTALS OF TARTAR, *Crystalli tartari, Potassæ supertartras.* Obtained by boiling white argol in water, with some white clay; filtering, evaporating, and crystallizing.

2. By clarifying the solution with white of eggs and woodashes, instead of white clays, as in the former: from Venice and Montpellier.

CREAM OF TARTAR, *Cremor tartari.* Formerly the skin of crystals that formed on the surface of the ley during evaporation; now used for the crystals reduced to powder: cooling, laxative, may be taken ad libitum; used as a diuretic in dropsy.

SOLUBLE TARTAR, *Tartarum solubile, T. tartarisatum, Kali tartarisatum, Tartris potassæ, Potassæ tartras, Tartaras kali.* Dissolve pearlsh 1lb. in a gallon of water, add cream of tartar as long as any effervescence arises, *i. e.*, rather less than 3lb.; evaporate and crystallize: purgative ℥j; laxative ℥j to iij; also added to senna and resinous purgatives ℥j to ℥j, to prevent their griping.

BRITISH CREAM OF TARTAR. Argol 3 cwt., sal enixum 1 cwt.; dissolve in water and crystallize: sold for cream of tartar.

SOLUBLE CREAM OF TARTAR, *Tartarum boraxatum, Tartris*

boraxata potassæ et sodæ. Borax 2lb., potassæ supertartras 5lb., dissolve in water q. s., evaporate to dryness: is soluble in an equal weight of water.

CHROMATE OF POTASH. Heat chromate of iron with an equal weight of saltpetre in a strong blast fire, wash out the salt, filter the leys, evaporate, crystallize, redissolve and recrystallize two or three times, then dissolve the crystals in five times their weight of water. Used as a test liquor for metals, particularly lead.

TRIPLE PRUSSIATE OF POTASH, Ferruretted hydrocyanate of potash. Digest Prussian blue 1lb. in oil of vitriol 1lb., previously mixed with five pints of water: boil, filter, and wash the sediment well; then put it into a sufficient quantity of pure potash-water to turn the blue to a yellowish brown, filter, evaporate, crystallize, and redissolve the crystals. Used as a test liquor for metals.

CYANURET OF POTASSIUM and Hydrocyanate of potash. Obtained by exposing ferruginous prussiate of potash for some time to a well-sustained heat in a stone crucible, taking care to stop the mouth of it during the period of its cooling. By this means the cyanuret of iron is completely decomposed, and that of potash remains unaltered. The residue of this calcination is a blackish lamellar mass, which is the cyanuret of potassium rendered dark by the iron and carbon belonging to the cyanuret of iron. This mass is to be washed in water; it deposits iron and carbon, whilst the cyanuret of potassium dissolves, and is transformed into hydrocyanate of potash. The solution should be perfectly colourless; when well prepared cyanuret of potassium is white and transparent. The action of cyanuret of potassium and of hydrocyanate of potash resembles that of Prussic acid. By dissolving cyanuret of potassium in eight times its weight of distilled water, we obtain what may be called medicinal hydrocyanate of potash. This solution should always be extemporaneous. It may be given in the same dose as medicinal Prussic acid, and under the same circumstances.

HYDROSULPHATE OF POTASH, Hydrosulphuret of potash. Prepared as hydrosulphate of ammonia, putting pure potash-water into the second bottle. Used as a test liquor for metals.

IODATE OF POTASH. Dissolve iodine in pure potash-water, evaporate to dryness, separate the hydriodate by spirit of wine; then dissolve the iodate in water, and crystallize. Used in bronchocele.

HYDRIODATE OF POTASH. Obtained from the mixed mass in the preceding process; by washing with spirit of wine, filtering, and distilling off the spirit. Used in bronchocele and in chronic rheumatism, commencing with two grains and a half three times a day in solution, gradually increased to ten grains.

SOLUTION OF HYDRIODATE OF POTASH. Hydriodate of potash gr. xxxvj; distilled water ʒj: in scrofula and bronchocele; gtt. x to xx, ter die, in syrup: will not keep.

SAL DIURETICUS, *Terra foliata tartari, Kali acetatum, Acetis potassæ, Potassæ acetæ, A. kali.* Saturate subcarb. of potash with distilled vinegar, and evaporate to dryness; redissolve the salt in distilled water, and evaporate until it concretes on cooling; diuretic or cathartic, as it is managed, dose ʒss to ʒij.

SALTS OF SODA.

TINCAR, *Rough borax, Chrysocolla, Borax cruda.* Found upon the edges of lakes; used in soldering, and for a flux. From the East Indies.

REFINED BORAX, *Borax raffinata, Sodæ boras, S. subboras.* Dissolve tincar in water, boil for some time, filter and crystallize; diuretic, emmenagogue, ʒss to ʒij; externally as a gargle in thrush, or to stop excessive salivation; used also in soldering.—*Glass of borax.* Borax dried by a gentle heat, breaking down the frothy mass as it rises; then melted by increasing the heat: the crucible should be either of silver, gold, or platina. Used as a flux in blowpipe experiments.

COMMON SALT, *Muriate of soda, Chloride of sodium, Sal communis, Sal culinaris, Sodæ murias, Murias natricus, Chloruretum sodii.* Is found native, and also prepared, in a variety of forms, from the sea water and salt springs, by evaporation either by the sun's heat, called *bay salt*; or by boiling, called *white salt*.

Rock salt, Sal gemmæ, S. fossilis. Found native; when pure does not decrepitate, nor lose weight in a low red heat: it sometimes contains from 1 to 4 in the 100 of marl with some sulphate of lime; hence the excise-laws allow 65lb. to be a bushel, instead of 56lb., as in bay salt and boiled salt. Used to make boiled salt, and for the same purposes.

London's patent solid salt. Cheshire rock-salt melted in a reverberatory furnace and ladled out into moulds. Used for preserving pickled provisions, as it dissolves very slowly in the brine as it becomes weak.

Bay salt, Sal marinus, Sal niger. Sea water slowly evaporated in shallow ponds by the sun; dark grey, in square hoppers; contains iodine: imported from France, Portugal, and Spain.

Cheshire stoved salt, Lump salt, Basket salt. By quick boiling the brine of salt springs until only so much water is left as merely to cover the small flaky crystals in the boiler, which are then put into conical wicker baskets, drained, and dried in stones: 100 tons of saturated brine will yield 23 tons of salt.

Cheshire common salt. By evaporating brine at 160 or 170 deg. Fahr. and draining the crystals, which are close, hard, and in square hoppers. Used for striking, and salting provisions intended for cool climates.

Cheshire large grained flaky salt, British bay salt. From brine, evaporated at 130 or 140 deg. Fahr., harder than the common salt, and in crystals approaching to a cubical form. Used for salting provisions for warm climates.

Cheshire fishery salt. From brine evaporated 100 or only 110 deg. Fahr. in large nearly cubical crystals. Used for salting provisions intended for very hot climates, or long voyages.

Lymington common salt. By spontaneously evaporating away in shallow ponds five parts out of six of sea water, and quick boiling of the remainder to a nearly solid mass, which is drained in troughs.

Lymington salt cats. The salt deposited upon stakes by the bittern which drains from the Lymington common salt; is in lumps of 60 or 80 lb. 100 tons of sea water yield only 2 tons 17 cwt. of salt. The usual proportion at the Lymington works are to each 100 tons of common salt, 1 ton of cat salt, and 4 or 5 tons of Epsom salt.

Scotch common salt. By quick boiling of sea water: is in small crystals.

Scotch Sunday salt. By making up the fires late on Saturday nights, and leaving the boiling to itself all Sunday; is in considerably larger crystals, which are taken out on Monday morning.

Salt upon salt. From bay salt dissolved in brine and recrystallized.

Saltpetre salt, Sal salis petrae. The salt that adheres to the sides and bottoms of the settling tubs, in refining saltpetre.

Decrepitated common salt, Sal communis decrepitatus, Murias sodæ siccatus. Heat the salt in a covered vessel till it ceases to crackle.

All these muriates of soda are stimulant, antiseptic, and hence used as seasoning for food both for man and beast. They are also employed in preserving animal substances, and occasionally in medicine, $\bar{3}$ j in clysters as a purge, and $\bar{3}$ j to two pints of water as a stimulant and absorbent lotion in wens and bruises.

SULPHATE OF SODA, Sulphas sodæ. Glauber's salt dried 8oz., charcoal dust 2 oz., sulphur 1 oz.; grind together, heat in a crucible for half an hour, cool, dissolve in water, filter and separate the sulphite from the sulphate, crystallization.

2. Pass sulphureous acid gas through a solution of caustic soda. Used to bleach straw hats.

ACETATE OF SODA, *Soda acetata*. Saturate acetic acid with subcarbonate of soda, filter, evaporate, and crystallize; milder to the taste than acetate of potash.

ARSENATE OF SODA, *Arsenias sodæ*. White arsenic 9oz., dry nitrate of soda 16oz.; mix and heat together in a bolt head or a sandbath, until the nitric acid is dissipated; dose one-sixth of a grain.

NITRATE OF SODA, *Nitras sodæ*. Saturate a solution of subcarbonate of soda with nitric acid, evaporate and crystallize. Used to prepare arseniate of soda.

SUBPHOSPHATE OF SODA. Saturate a solution of subcarb. of soda with liquid phosphoric acid, evaporate, and crystallize. Used as a test in blowpipe experiments, and also dissolved to discover silver in saline solutions.

TASTELESS PURGING SALT, *Soda phosphata, Phosphas sodæ*. Dissolve phosphoric acid in water, add subcarb. of soda q. s. to saturate the acid: evaporate and crystallize.

2. Dissolve well-burnt bones in nitric acid; dissolve also Glauber's salt in water, and pour it into the nitrous solution, as long as a precipitation takes place; filter, and distil the liquor to recover the nitric acid, wash, evaporate and crystallize; purgative ʒvj to 3x, in broth: used also to prepare cobalt blue.

GLAUBER'S SALT, *Sulphate of soda, Sal mirabilis Glauberi, S. catharticus Glauberi, Natron vitriolatum, Sodæ sulphas*. Dissolve the residuum left in distilling sulphuric acid upon salt, in water, saturate the excess of acid, either with subcarb. of soda, or powdered chalk; filter, evaporate and crystallize.

2. To common spirit of bones or ammoniacal liquor add oil of vitriol, crystallize the sulphate of ammonia thus made, mix this with common salt, sublime the sal ammoniac from it, and the Glauber's salt remains, which is to be dissolved and crystallized.

LYMINGTON GLAUBER'S SALT, *Sulphate of magnesia and soda*. Obtained from the mother liquor of sea water, crystallizing in rhomboids.

2. By dissolving Epsom salt in a solution of Glauber's salt.

ROCHELLE SALT, *Sal Rupellensis, Natron tartarisatum, Soda tartarisata, Tartris potassæ et sodæ, Tartras potassæ et sodæ*. Dissolve subcarb. of soda 20 oz. in water 10lb.; add, while boiling, cream of tartar 2½ oz.: filter, evaporate to a pellicle, and crystallize.

2. Dissolve cream of tartar lb. iij, in water 3 gall., add pearlash q. s. to saturate the superfluous acid, as in making soluble tartar, filter, add common salt ʒxj, evaporate and crystallize. A more agreeable purgative than Glauber's salt, but rather weaker.

SANDIVER, *Sel de verre, Glass gall, Fel vitri.* The saline scum that swims on the glass when first made; used in tooth-powders.

BLACK ASH. The waste ley of the soap-maker, pumped out of the boiler, evaporated in large iron boilers, and the salt separated as it falls down. It consists of the sulphate, muriate, and sebate of soda, and of potash, and, being put into a reverberatory furnace, it is heated so as to partially decompose these salts, and bring it to a pasty kind of fusion, at which time it is let to run out of the furnace into an iron pan to grow cool and solid; it is then sold to the yellow soap-maker, or to the alum-maker.

SALTS OF THE ALKALINE ROSINS.

SULPHATE OF QUININE, *Sulphas cinchonæ.* Digest yellow bark in weak sulphuric acid, made by adding 50 grains by weight of oil of vitriol to each lb. j of water: add hot lime to render the liquor clear, and wash away the extra lime from the precipitate; drain this precipitate and digest in rectified spirit, decant and distil off the spirit, dissolve the rosin in hot water rendered sour with sulphuric acid, and as the liquor cools, the sulphate of quinine crystallizes.

2. Powdered bark 2lb., water 2 gall., oil of vitriol 2 oz., measures; strain, add lime 8 oz., or enough to render the decoction dark brown, with a reddish brown sediment; proceed as above: produce 5 or 6 drachms. Febrifuge, gr. viij equal to bark ʒj.

QUINÆ HYDRO-FERRO-CYANAS. Prepared by boiling a mixture of pure quina and Prussian blue in distilled water, and then evaporating to dryness. One grain of this salt given one hour before the accession of an intermittent, is stated by Dr. Gouzel, of Antwerp, to have perfectly cured the disease.

Quinæ phosphas. This may be obtained by the decomposition of the hydro-chlorate of quina by the phosphate of ammonia. This phosphate may be procured by saturating a given quantity of pure phosphoric acid with ammonia, and driving off the excess by means of gentle heat. 480 parts of the crystallized sulphate of quina are then to be rubbed together with 1200 of the hydro-chlorate of barytes in crystals, and then eight times their weight of distilled water is to be added, filtered, and the residuum washed. The liquids are next to be mixed together, and diluted with four times their weight of distilled water, after which the diluted solution of the phosphate of ammonia is to be added by degrees, carefully shaking it. When a precipitate no longer

ensues, the liquid must be filtered, and the phosphate of quina must be speedily washed with cold distilled water.

IODATE OF STRYCHNIA. Obtained by saturating a concentrated solution of powdered strychnia with iodic acid, on which the mixture swells, absorbs the water, and becomes thick : treat the mass with boiling alcohol, filter and leave to evaporate : the result is a beautiful crystallization of iodate of strychnia. It may also be got by the double decomposition of a salt of strychnia, and some soluble iodate—muriate of strychnia and iodate of soda for instance. Iodate of strychnia is white, crystallized in beautiful prismatic needles, is slightly soluble in cold water, very soluble in hot water and in alcohol. Has been found serviceable in paraplegia ; it may be given in pills of one eighth of a grain each, one at night and the other in the morning, and the dose is increased gradually until eight are taken in twenty-four hours.

SULPHATE OF STRYCHNINE. Dissolve strychnine in dilute sulphuric acid, evaporate and crystallize ; proposed to be employed, or any other salt of strychnine, when the system is accustomed to the action of pure strychnine, but not in use.

SULPHATE OF BRUCINE. Prepared in the same manner, and as well as other salts of brucine for the same purpose ; not used as yet.

SULPHATE OF MORPHIA. Dissolve morphia in oil of vitriol, previously diluted with a considerable quantity of water ; evaporate and crystallize : narcotic, a quarter of a gr. to gr. j, in a day and night.

ACETATE OF MORPHIA. Dissolve morphia in acetic acid q. s. and evaporate to dryness ; narcotic, a quarter of a gr. to gr. j, in a day and night.

VIII. ACIDS.

THE strength of liquid acids is usually expressed in England by the enunciation of their specific gravity, water being considered as unity ; and in France and the neighbouring countries, by the degrees of Baume's hydrometer, on account of its easy construction : but this does not answer for all acids, for the experiments of Molerat, a manufacturer of acetic acid, showed that the strength of acetic acid cannot be determined by the mere consideration of its specific gravity ; and the case is probably the same with some other acids formed in or from organic bodies.

Hence the French chemists have introduced a fictitious standard, founded upon the capability of the acid to saturate a determinate weight of well-crystallized subcarbonate of soda : the

quantity of pure sulphuric acid (36 parts) necessary to saturate 100 parts of subcarbonate of soda, being esteemed as 100 acidimetric degrees. Then if upon trial 88 grains of any other acid be required to saturate 100 grains; or, for the sake of using smaller quantities, 22 grains should saturate 25 of subcarbonate of soda; then, as 88 (22) of the acid is equivalent in force to 36 (9) of sulphuric acid, so by inverse proportion are 100 acidimetric degrees to 40 deg. \cdot 99, the conventional strength of the acid assayed, which may be quoted as 41 acidimetric degrees strong.

There are other modes of calculating the strength of acids in this mode of valuation, which is substituted for the equivalents of Dr. Wollaston, with a view of rendering the calculations more adapted to the habits of practical men.

As the power possessed by 36 parts of oil of vitriol to saturate 100 parts of dry subcarbonate of soda is taken to represent 100 degrees of strength, so if 36 parts of any other acid liquor are taken, the number of the parts of subcarbonate that it will saturate is at once the expression of its acidimetric strength: thus as a solution of 36 grains of crystallized acetic acid will saturate 90 grains of the subcarbonate of soda, this 90 is the expression of its acidimetric strength. The acidimetric strength of an acid may also be estimated from the saturation of any determinate weight of subcarbonate by a determinate weight of acid: for example, 100 grains of the acidum nitricum of the London Pharm. ought to saturate 212 grains of subcarbonate: then as 100 grains of acid are to 212 grains of alkali, so are 36 grains of acid representing 100 deg. of strength to the strength of the nitric acid, which will be found to be 76 deg. \cdot 32; and in like manner as 100 grains of the acidum muriaticum are required to saturate 124 grains of subcarbonate of soda, its strength expressed in the French mode will be found to be 44 deg. \cdot 64.

If the strength of any acid be given in acidimetric degrees, the quantity of subcarbonate of soda that any assigned weight of it will saturate is thus found. As 36, the standard quantity of oil of vitriol taken to represent 100 degrees of strength, is to the quoted strength of the acid, so is the weight of the acid intended to be used to the weight of the subcarbonate that it will saturate. For instance, let it be required how much subcarbonate of soda 100 grains of acetic acid, from wood at 31 deg. \cdot 32, will saturate: then as 36 are to 31 \cdot 32 so are 100 to 87, the number of grains of subcarbonate that the acid will saturate. And this is the number quoted by the London college as the power of saturation that their acidum aceticum fortius ought to possess.

The use to be made of this mode of valuation may be thus exhibited. Having 1500lb. of rectified pyroligneous acid 8 acidimetric degrees strong, how much crystallized sulphate of soda will be required to be added to the pyrolignite of lime formed

by this quantity of acid to convert it into pyrolignite of soda? It is known that every 20lb. $\cdot 25$ of sulph. of soda contains 5lb. of dry sulphuric acid, which with 1lb. $\cdot 125$ of water would form 6lb. $\cdot 125$ of oil of vitriol at 66 deg. Baume, or 100 acid deg. Now 1500lb. of pyroligneous acid multiplied into 8 deg. of strength, will give for its total strength 12,000 deg. and 6lb. $\cdot 125$ of oil of vitriol multiplied into 100 deg. will give for the total strength of each 20lb. $\cdot 25$ of sulphate of soda 612 deg. $\cdot 5$. Hence, if 12,000, the total strength of the pyroligneous acid, be divided by 612 $\cdot 5$, the quotient 19,595, or say 19 $\cdot 6$, will show how many times 20lb. $\cdot 25$ of sulphate of soda must be employed; which will be found equal to 398lb.

OF VEGETABLE ORIGIN.

MALT VINEGAR, Common vinegar. Convert 20 quarters (160 bushels) of malt, with at least 56lb. of hops, into at most 100 barrels of good serviceable ware. Put this ware into sweet casks, (oil butts are the best,) laid upon scantlings in the sun, filling them within three inches of the bung. Let the bungs stand open when the sun shines hot upon the cask; but in close or wet weather, and at nights, let the bungs be stopped and covered from the rain. Let not the head work out at the bungs, and it will sink to the bottom: when the first head of the liquor has fallen, draw it from the lee into another clean sweet cask, and so afterwards from cask to cask, till it come to perfection; then draw it off into a store cask. If the ware grow long and ropy, put in a fit quantity of alum, work it well together, and it will grow short again. The largest casks are the fittest to house and keep these wares in for store.—*Statutes of the Distillers of London.* The use of afterworts, or brewers' wash, is forbidden by these statutes.

PICKLING VINEGAR, White wine vinegar. Make 4 bushels of malt into 130 gall. of wort; when cooled to about 75 deg. Fahr. add 4 gall. of yeast; let it stand 36 hours; then take two casks, having false bottoms pierced with holes one foot from the bottom, upon which place a considerable thickness of the bottoms of the British wine manufactories, or of low-priced raisins. Fill one of these casks two-thirds full, and the other only sufficient to moisten the rape; draw off every day the liquid material that is above the rape in the full cask into the other, and repeat this alternately until the vinegar is made.

ALEGAR, Acetum cerevisiæ. Work strong ale upon the cuttings of the vine, unripe grapes, or cheap raisins, in the same manner as wine vinegar, with three casks, or as pickling vinegar.

WINE VINEGAR. Number three sweet casks 1, 2, 3, and fill No. 1 with good sound white rape (that is, the foot-stalks and skins of grapes left in making white wine) to within six inches of the bung; stop it close, and let it stand to gather heat, for two or

three days in summer, but in winter it will require more time. When conveniently hot, fill up the cask within three inches of the top with wine of any kind, being well conditioned, not musty, and without dregs. Stop the cask close, and at the same time fill No. 2 with rape to gather heat; when sufficiently hot, draw off No. 1, put it into No. 2, stop both close, and fill No. 3 with rape. When No. 1 and 3 have gathered heat sufficient, fill up No 1 with fresh liquor, draw off No. 2, put it into No. 3, and so let No. 2 gather sufficient heat again. Then draw off No 1, put it into No. 2; draw off No. 3, and put it into a store cask; for, having passed three times through the rape, it is become good merchantable ware. Proceed in this manner, supplying one cask from another, until all the wine to be converted into vinegar is spent. The working casks must be left nearly full, until more wine vinegar is to be made; for if the rape stand dry, it will wax hot, soon decay, and be utterly spoiled.—*Statutes of the Distillers of London.*

BEST FRENCH WINE VINEGAR, *Vinaigre d'Orleans.* Fill a cask of about 50 gallons' content a quarter full of good vinegar; put the wine intended for vinegar into a cask half-filled with beech shavings well pressed down. In eight days' time, draw off the clear wine into a clean cask, and put $2\frac{1}{2}$ gall. into the vinegar cask. In another eight days, add $2\frac{1}{2}$ gall. more wine, and so a third and fourth time: the vinegar cask should be kept in a room exposed to the mid-day sun, and the temperature kept up to about 25 deg. Reaum. or 90 deg. Fahr. by a fire if necessary. Then with a wooden spoon bring up some of the froth; if this is thick, white, and pearly, draw off 10 gall. of the vinegar, and proceed as before, until the tartar and lees of the wine accumulate so as to hinder the fermentation, and render the vinegar muddy. If the froth is red, another $2\frac{1}{2}$ gall. of wine must be added, and the heat of the room increased. Each cask yields about 100 gall. of vinegar yearly, for ten years. Muddy vinegar is cleared by straining it through beech shavings pressed together, letting it remain on them a few days before drawing off: weak wines generally become muddy. Sometimes a cask suddenly stops working without any apparent cause; in this case draw off its contents, wash it with hot vinegar, fill it a quarter full with good vinegar, and proceed as with a new cask.

FRENCH HOUSEHOLD WINE VINEGAR. Bring a small cask of Orleans vinegar, keep it in a cool place, and as the vinegar is drawn off for use, fill it up with wine.

CYDER VINEGAR. From cyder, worked as malt vinegar.

SUGAR VINEGAR. To each gallon of water add 4lb. of brown sugar, and work it either as wine or malt vinegar.

GOOSEBERRY VINEGAR. To each quart of bruised gooseberries add three quarts of water, and to each gallon of liquor

1lb. of coarse sugar, or more; expose to the sun as in making malt vinegar.

RAISIN VINEGAR. After making raisin wine, lay the pressed raisins in a heap to heat; then to each cwt. put 15 gall. of water, and a little yeast, and work it as pickling vinegar.

CRYSTAL VINEGAR. Pickling vinegar 1 gall., fresh burned bone black 6oz., stir together, let it stand two or three days, decant off the clear, and filter the bottoms: used for pickles which require a clear colourless vinegar.

ACETUM PURIFICATUM, P. U. S. Vinegar 1 gall., charcoal powder 1oz.; boil up and strain, or let it settle and decant off the clear.

ARGOL VINEGAR, *Acetum ex tartaro.* Warm water lb. xvj, white argol lb. j, dissolve, when cold add spir. vini O jss: keep it in a warm place in a slightly covered vessel, until the fermentation is completed, decant, and keep it well stopped.

GERMAN HOUSEHOLD VINEGAR. Soft water $7\frac{1}{2}$ gall., honey 2lb., dissolve, add corn spirit 1 gall., keep it stopped up in a warm place for three months, then decant into bottles.

2. Soft water $7\frac{1}{2}$ gall., corn spirit 2 pints, cream of tartar $1\frac{1}{2}$ oz., dry yeast the size of a goose egg, ferment for three months, then decant into bottles.

Vinegar is used principally as a sauce, and to preserve vegetable substance; but it is employed externally as a refrigerant and repeller: useful also internally when an over-dose of strong wine, spirit, opium, or other narcotic poison has been taken. A false strength is given to it by adding oil of vitriol, or some acrid vegetable, as pellitory of Spain, grana Cnidia, or capsicum, which may be discovered by its leaving a sense of heat upon the lips, whereas pure vinegar leaves on the contrary a sense of cold.

QUASS, *Posca?* Mix rye flour and warm water together, keep it by the fireside till it has turned sour: much drunk in Russia; looks thick and unpleasing at first, but becomes agreeable by use.

VINASSE. The bottom left in the still, in distilling wine: used in some manufactories as a weak acetic acid.

DISTILLERS' WASH. The grounds left in the still in distilling corn spirit: used to fatten swine.

DISTILLED VINEGAR, *Acetum distillatum.* Common vinegar 16 gall., distil in a copper still with a copper worm, drawing off 12 gall. A pewter worm renders it milky: sold for verjuice.

2. Vinegar 8 gall., water 8 gall., mix and distil off 8 gall.

VINEGAR DISTILLED IN GLASS, *Acidum aceticum, P. L.* and *C. P. A. acetosum distillatum, A. aceticum dilutum, P. L. 1824.*

Pickling vinegar 1 gall., distil in a glass vessel 1 pint, which keep separate for perfumes or cosmetics, then draw off 6 pints, being the material required by the colleges for medical purposes.

ACIDUM ACETOSUM, P. Bat. *A. aceticum dilutum*, P. Belg. Wine vinegar 16 pints, charcoal powder 1lb., distil in glass or stone ware 2 pints, which keep separate; then draw off 8 pints; continue the distillation, keeping each pint separate until the distilled vinegar has a burnt flavour; mix the others with 8 pints: ʒj of this acid should saturate ʒj of subcarbonate of soda, if it does not, add some stronger acid, or some of that which came over first: its spec. grav. is usually 1.007. Distilled vinegar is used when the mucilage of raw vinegar would be prejudicial, or its colour.—*Sapa aceti*. The bottoms left in distilling vinegar, without the addition of water.

CONCENTRATED VINEGAR, *Acetum concentratum*, *Acidum aciticum forte*. *Sapa aceti* 1 gallon, charcoal powder 1lb., distil.

BADOLLIER'S STRONG ACETOUS ACID, *Acidum acetosum forte*, P. E. Vitriol calcined to whiteness lb. j, sugar of lead ʒx ; rub together and distil.

DOLLFUSS' CONCENTRATED ACETOUS ACID. Sugar of lead 12oz., oil of vitriol 6 oz.; distil 7oz., used to make aromatic vinegar, and as a very active errhine.

SPIRIT OF VERDIGRIS, *Radical vinegar*, *Esprit de Venus*, *Spiritus Veneris*, *Acidum acetosum*, *A. aceticum purum*, C. P. Crystallized verdigris 2lb., dry it in a water-bath, distil it in a sand heat, re-distil the produced liquor: produces 1lb.: sp. gr. 1.050. Dissolves camphire and oils.

ACIDUM ACETICUM, P. D. Kali acetatum ʒvj , add gradually oil of vitriol ʒij , allowing the mixture to cool between each addition; distil to dryness: produces ʒij .

CRYSTALLIZED ACETIC ACID, *Acidum aceticum glaciale*. Acetate of soda dried, and melted by a gentle heat $10\frac{1}{4}$ oz., oil of vitriol 5 oz., mix gradually, and distil; dry the crystals with filtering paper; produces about 6 oz.

LOWITZ'S ACETIC ACID. Sulphate of potash 12oz., oil of vitriol 6 oz., diluted with 18 oz. water; evaporate to dryness; add acetate of soda gently dried 9 oz., black oxide of manganese ground very fine $\frac{1}{4}$ oz., distil in glass, in a sand heat.

ROUGH PYROLIGNEOUS ACID, *Vinegar of wood*, *Spirit of wood*, *Acetum ligni*. From woods not of a resinous nature, as beech, birch, oak, or ash, by distillation in cast iron cylinders. 8 cwt. of wood yields about 35 gallons or 300lb. of spirit and phlegm, and leaves about 18lb. of charcoal, so that nearly half the wood passes off in gas, which being inflammable, is conducted by pipes to the fire-room of the furnaces, and aids in the supply of heat.

2. As a secondary product in the distillation of alder, willow, or dog-wood, in making charcoal for the manufacture of gunpowder.

RECTIFIED PYROLIGNEOUS ACID, *Smoking liquor, Spiritus acidus ligni, Essentia fuliginis.* The rough acid redistilled in a copper still. 100 gall. usually leave 20 gall. of viscid tarry matter in the still. Transparent, brown, a strong smoky flavour, sp. gr. 1.013 half as strong again as the best common vinegar. Used to preserve and smoke meat and fish by their being dipped in it for at most two or three minutes, or to give them a smoky flavour by rubbing them over with it by means of a feather or sponge.

SPIRITUS BUXI, P. L. 1745. From box wood.

ACETIC ACID FROM WOOD, *Purified pyroligneous acid, Acidum aceticum ligni.* Saturate rectified pyroligneous acid with lime, or chalk, evaporate to dryness, gently heat it, stirring it all the time, then dissolve it in water so as to mark 15 deg. Baume, mix the solution with a saturated solution of sulphate of soda; sulphate of lime falls down, and the liquid is pyrolignite of soda: evaporate to 27 or 28 deg. and set by to crystallize; evaporate the remaining liquid again, and crystallize, (when no more crystals can be obtained, the remainder is to be evaporated to dryness, and calcined for carbonate of soda); gently heat the rough pyrolignite in flat iron pans, until it flows quite smooth: the heat must never be so great as to occasion the least fume: hence 8 cwt. will require about 24 hours to effect this. Dissolve the roasted pyrolignite in water so as to mark 15 deg., decant and crystallize: add at once oil of vitriol sufficient to saturate the soda, decant the liquid from the sulphate of soda that is formed, and distil until the drops come over coloured, then change the receiver. The clear acid is usually 40 acidimetric degrees strong, and its specific gravity 1.057.

2. Dissolve sulphate of soda in rectified pyroligneous acid, saturate the solution with chalk, strain, wash the sediment, add the washings to the solution, and proceed to crystallize the pyrolignite of soda as in the former process. Used to preserve animal substances, and for the purposes to which acetic acid is applicable.

ACIDUM ACETICUM FORTIUS, P. L. Acetic acid from wood, 100 gr. of which will saturate 87 gr. of crystallized subcarbonate of soda, or 30 acid. deg. .32 strong: used by the London college to make sugar of lead.

HONEY WATER FOR THE HAIR, *Aqua mellis.* Honey 4lb., very dry sand 2lb., put into a retort or body that will hold five times as much, distil with a very gentle heat: a yellowish acid water. Used to encourage the growth of hair.

SPIRIT OF RYE BREAD, *Spiritus acidus panis secalinæ*. Cut rye bread in slices, fill a retort with it, distil, rectify the aqueous liquor. Used to extract the colour from garnets, and other stones, which it does quicker than any other acid.

FLOWERS OF BENJAMIN, *Flores benzoini*, *Flores benzoës*, *Acidum benzoicum*. Melt benjamin with a very gentle heat in a glazed earthen pot, to the neck of which a paper cone or chamber is annexed; if the flowers are tinged with oil, press them between bibulous paper, mix with white clay, and sublime again: lb. j of benjamin yielded $\bar{3}$ j of flowers.

SCHEELE'S BENZOIC ACID. Benjamin lb. jss, lime $\bar{3}$ iiij; rub together, boil in water 1 gall., decant, boil the sediment in water lb. iiij; decant, mix the two liquors, and boil down to a half, filter, add muriatic acid as long as any thing is thrown down, decant, dry and sublime the flowers: lb. j of benjamin yields $\bar{3}$ j $\bar{3}$ vj $\bar{3}$ ij of flowers.

GREEN'S BENZOIC ACID. Benjamin $\bar{3}$ xxiv, subcarb. of soda $\bar{3}$ viiij; rub together, boil in water lb. xvj, strain, boil the grounds in water lb. vj, strain, mix the two liquors, boil to lb. ij; filter and precipitate with dilute sulphuric acid q. s.; dissolve the precipitate in boiling water, strain and crystallize; lb. j benjamin yielded $\bar{3}$ j $\bar{3}$ j $\bar{3}$ j of flowers. Obtained also from the urine of neat cattle and horses: a manufactory of sal ammoniac, near Magdeburgh, which uses urine, is able to supply flowers of benjamin by the cwt. Expectorant; used in chronic coughs, gr. x to 3ss.

CONCRETE ACID OF LEMONS, *White citric acid*, *Acidum citricum*, *Acidum citricum crystallis concretum*. Saturate lemon or limejuice with powdered chalk, wash the sediment with cold water and dry it; each gallon of lemon juice forms 8 oz. 1-4th to 12 oz. 3-4ths of this citrate of lime: upon this powder pour dilute sulphuric acid fl. $\bar{3}$ ix to each $\bar{3}$ of chalk previously used; or, if the imported citrate of lime is used, 15lb. will require 40lb. of a spirit of vitriol, whose specific gravity is 1.15; strain through a cloth and expose the liquor in shallow vessels, that it may crystallize by spontaneous evaporation: an agreeable acid, cooling, and antiseptic; 3ss in water $\bar{3}$ j, is equal to lemon juice. Gr. xxvj saturate subcarb. of potash gr. lxj, or subcarb. of ammon. gr. xlij, or magnesia alba gr. xl.

BROWN CITRIC ACID. The first crop of crystals when evaporated by heat; sold cheaper.

CRYSTALLIZED ACID OF TARTAR, *Acidum tartari crystallisatum*. Cream of tartar 30 oz., boil in water 2 gall.; add chalk till it ceases to effervesce (about 1lb.), let it settle, strain, wash; to the sediment add oil of vitriol 12 oz., diluted with water 1 gall., stir,

strain and evaporate by a water bath, that it may crystallize: the mother water yields by evaporation and crystallization tartrate of potash. Tartaric acid is used as a substitute for lemon juice and citric acid.

SPIRIT OF TARTAR, *Spiritus tartari*. Distil argol and separate the acid spirit from the oil by a funnel: the residuum yields, by burning in the open air, very pure subcarb. of potash. It may be used for distilled vinegar.

LACTIC ACID. This may be extracted both from milk and from the juice of beet root. If from the latter it should be left in a stove of a fixed temperature, between 25° and 30° . After a few days, fermentation takes place, and hydrogen mixed with carburetted hydrogen is abundantly evolved. The fermentation ended, and the liquid restored to its former fluidity—which generally occupies two months—it is evaporated to a syrupy consistence: crystals of mannite then appear, and with them a sugar. The product of the evaporation is treated with alcohol, which dissolves the lactic acid, leaving a quantity of precipitate. The alcoholic extract is taken up by the water, wherefrom a fresh deposit is made; the fluid is then saturated with carbonate of zinc, and a copious precipitation again takes place. The lactate of zinc, when concentrated, crystallizes, is collected and heated with water, to which some animal charcoal previously washed with hydrochloric acid is added; the whole is then filtered, and the lactate of zinc, perfectly white, crystallizes: these crystals are again washed with boiling alcohol, in which they are insoluble. By successive treatment with baryta and sulphuric acid the lactic acid is separated and concentrated in vacuo. Finally, on shaking it with sulphuric æther which dissolves it, a flaky matter is separated—when concentrated in vacuo, lactic acid is a colourless fluid of a syrupy consistence; it is inodorous, and intensely acid to the taste—very soluble in water and alcohol, rapidly dissolves phosphate of lime. Has been found of use in dyspepsia or mere debility of the digestive organs, may be given in the form of lemonade or lozenges.

OXALIC ACID, *Acid of sugar*, *Acidum oxalicum*. Starch 25 oz., put it into a retort, add first common nitric acid 75 oz., and when the action is over add nitric acid 24 oz.; heat, decant, leave it to crystallize, decant the mother water. Add fresh nitric acid to the mother water, and crystallize again 3 or 4 times until 200 oz. or more nitric acid has been used. Produces about $12\frac{1}{2}$ oz. of crystallized oxalic acid; the crystals are purified by solution in water and recrystallization. From its resemblance to Epsom salts it has occasioned several accidents, but it has a strong acid taste. Used for cleaning boot-tops, and as a precipitant for lime, either free or in combination. The nitrous gas which is disengaged is used

in the manufacture of oil of vitriol, so that it is seldom made on purpose.

IODINE, *Iode, Iodium.* Extract all the soluble part of kelp by water, and crystallize the soda by evaporation; to the mother ley add oil of vitriol to excess and boil the liquid, then strain it to separate some sulphur, and mix the filtered liquor with as much manganese as there was oil of vitriol used: on applying the heat, the iodine sublimes in the form of greyish black scales, with a metallic lustre; stimulant, gr. ss, daily; specific in bronchocele, and advantageously given, in order to remove morbid growths and tumours; also in paralysis; but its action must be carefully watched, as it produces gastric irritations, and emaciation. Several practitioners have derived benefit from its employment in the various species of scrofula, in tubercular affections of the chest and abdomen; also as an emmenagogue. Latterly iodine has been employed in the treatment of syphilitic buboes, and in gonorrhœa; in leucorrhœa; also some cases of cancer are said to have been cured by it. It may be administered in the form of tincture, or dissolved in water (iodated or ioduretted waters.)

SOLUTION OF IODINE. Iodine gr. j, distilled water 1 pint; dissolve: solution orange yellow. Used as a test for starch, with which it produces a purple colour, and as one of the best modes of prescribing the iodine.

IODIC ACID, *Acidum iodicum.* Diffuse iodine in water, and pass chlorine gas through the mixture, until it becomes clear and colourless; evaporate to a semitransparent white saline mass.

TANNIN, *Tannic acid.* Nutgalls 1lb., infuse in distilled water, strain, add hydrochlorate of tin as long as any sediment is produced, wash, diffuse the sediment in water, and pass hydrosulphuric gas, from artificial sulphuret of iron while dissolving in dilute muriatic acid, through the water; filter, evaporate to dryness, and dissolve in water. Used as a test for gelatine.

FIEDLER'S GALLIC ACID. Blue nutgalls 1lb., water 2 gall., boil to 1 gall.; strain. Dissolve alum 2lb. in water, add subcarbonate of potash as long as any sediment falls, wash this sediment well, and add it to the decoction of galls; next day filter, wash the sediment till the washing no longer strikes a black colour with copperas water, mix the washings with filtered liquor, evaporate and crystallize. The liquid acid used as a test for iron and titanium, and to distinguish strontian from barytes.

OF ANIMAL ORIGIN.

ACID OF ANTS, *Acidum formicarum.* Ants 1b. j, boiling water lb. iiij; infuse for three hours, press out the liquor, and strain: stimulant. Used as a lotion in impotency.

SCHEELÉ'S ACID OF PRUSSIAN BLUE, *Acide hydro-cyanique, Acidum Prussicum*. Prussian blue 2 oz., calcined mercury 6 oz., distilled water 6 oz.: boil till the blue colour is changed to a yellowish green, filter, add hot water 10 oz., to wash the sediment perfectly, pour the liquor upon clean iron filings ʒij, and add oil of vitriol ʒj; pour the liquid from the quicksilver that has separated, and distil till 1-4th part has passed.

La Planche's Prussic acid. Proceed as before, but draw off only 1-6th, and redistil upon chalk, gr. ij to the oz., drawing off only 3-4ths.

Gay Lussac's Prussic acid. To prussiate of quicksilver 3 oz., contained in a tubulated retort connected with two receivers surrounded with ice and salt, the first of which contains pieces of muriate of lime and chalk; add slightly-smoking spirit of salt 2 oz.; distil with a slight heat, until some water appears in the first receiver, then stop the distillation, and take away the freezing mixture of ice and salt from the first receiver only: the Prussic acid will distil over into the second smaller receiver, leaving the water with the dry muriate of lime, and the muriatic acid with the chalk.

Magendie's medicinal Prussic acid. Gay Lussac's Prussic acid ʒj, distilled water ʒvijss, by weight; or acid ʒj, distilled water ʒvj, by measure; antispasmodic.

Scheele's Prussic acid as prepared by the Paris apothecaries. Gay Lussac's acid ʒj, water ʒxl.

Scheele's Prussic acid as prepared by Robiquet. Gay Lussac's acid ʒj, water ʒij.

Scheele's Prussic acid as ordered in the Paris Codex Medic. Gay Lussac's acid ʒj, water ʒj.—Strong Prussic acid in very small quantity, gtt. j—ij, either applied to the tongue or even to the skin, kills instantaneously, and the body exhales for several days a strong smell of bitter almonds; gtt. vj—x of Scheele's or La Planche's acid in water ʒij to iv, taken by tea-spoonsful every two hours is beneficial in chronic cough and in phthisis.

Serious, and sometimes fatal, accidents have been occasioned by the want of uniformity in the strength of Prussic acid. For the purpose of obtaining such uniformity, Mr. Everitt, Professor of Chemistry to the Medico-Botanical Society, has proposed the following process:—"Into a phial capable of holding rather more than one fluid ounce, put 40 grs. of the cyanuret of silver, add ʒoz. 10 minims of water and 40 minims of the dilute of hydrochlorate acid, cork closely, shake several times for the first quarter of an hour, set aside to allow the chloride of silver to fall, decant the clear liquid into another bottle, to be preserved for use; every fluid drachm will contain one grain of real hydrocy-

anic acid." With respect to the medicinal use of this substance it may be remarked that several distinguished practitioners have found it serviceable in affections of a spasmodic nature, either of the lungs or stomach.

OF MINERAL ORIGIN.

WHITE ARSENIC, *Oxide of arsenic, Acide arsenieux, Deutoxide d'arsenic, Arsenicum album, Oxidum arsenici, Arsenici oxydum, Acidum arseniosum.* Obtained in a powdery form by subliming some kinds of cobalt ore, and reduced to lumps, for convenience of carriage, by sublimation. Imported from Germany in casks of 2 to 5 cwt.

Arsenici oxydum præparatum. From the former by a fresh sublimation: tonic, but scarcely ever used in medicine, although frequently for empoisoning or self-destruction; in metallic mixtures to whiten copper and in dyeing.

Tasteless ague drop. White arsenic gr. j, water loz.; dissolve: dose a tea-spoonful night and morning. Used in the fen countries by private practitioners. In a book of travels through England, it is said to be common for the farmers in the marshy parts of Essex to fetch their wives from the uplands, who seldom live long in the low countries; so that most of the farmers there have had several wives, and many make much money by this system of wiving. Does this mortality arise from the ague, or from the use of this remedy?

Solution of deutoxide of arsenic for assaying Distilled water $\bar{3}$ iv, white arsenic gr. xlviij; dissolve by boiling. As a test for sulphuric acid, lime, and copper.

BORACIC ACID, *Sedative salt of vitriol, Acidum boracicum, Sal acidum boracis.* Borax 3oz., water 2 pints; dissolve, add oil of vitriol 3vj, evaporate to a pellicle, and crystallize.

2. From the water of some Italian lakes, by evaporation and crystallization in such quantities as to overstock the market: some left in the Custom-house, as not worth the duties laid on it. Used to make borax.

MURIATIC ACID, *Hydrochloric acid, Marine acid, Acid of common salt, Acidum muriaticum, A. hydrochloricum, A. salis communis.*—*Lemeri's spirit of salt.* Common salt 1lb., potters' earth 3lb.; moisten, mix, make into balls, distil.

Acid water of salt, Aqua acida salis communis.—*Oil of salt, Oleum salis.* Redistil Lemeri's acid by a heat of about 100 deg. Fahr.; the acid water comes over, limpid, ungrateful to the taste; the oil of salt remains very rich, fragrant, gratefully acid, greenish yellow.

Acidum muriaticum, P. L. Decrep. salt xxxiv , oil of vitriol xxx ; distil into a pint of water; spec. grav. should be 1.17, and 100 gr. ought to saturate 124 gr. of subcarbonate of soda.—*Official preparation*. Murias Barytæ, E. Solutio muriatis calcis, E. D. Tinctura ferri muriatis, L. E. D. Hydrosulphuratum ammoniæ, E.

Henry's muriatic acid for assays. Muriatic acid diluted to gr. 1.074, so that a measure of it will saturate an equal measure of subcarbonate of potash-water, or of pure ammonia-water, or two measures of pure potash-water, or of pure soda-water, or of subcarbonate of soda-water, or of subcarbonate of ammonia-water.

A. muriaticum, P. Bat. Water 6 oz., boiled German oil of vitriol 12 oz.; mix, pour it upon decrep. salt 18 oz, in a retort connected with a receiver and two bottles; the first bottle containing water 4 oz.; the second 6 oz.; distil, mix the acid in the receiver and first bottle: that in the second bottle, being weaker, is kept for ordinary uses. If the strong acid brings over any sulphuric acid, it should be rectified upon salt 2 oz.

A. muriaticum, P. Belg. Water 9 oz., oil of vitriol 24 oz.; mix, pour upon decrep. salt 30 oz., in a large glass body, lengthen the nose of the head by a pipe passing nearly to the bottom of a long-necked receiver containing water 15 oz., and the joint merely secured by a roll of paper. Distil till the charge begins to grow solid; then take off the receiver, and apply another containing water $1\frac{1}{2}$ oz. The first receiver contains a very pale, smoking, concentrated acid, of 22 deg. Baume, free from sulphuric acid; the second a very strong, but coloured acid, contaminated with a little sulphuric acid.

Muriatic acid distilled in iron, Acide hydrochlorique des cylindres. 20 cast-iron cylindrical retorts, about 5 feet long, and 18 inches over, are usually placed in one stack of furnaces, with a fire-room to each pair. Each retort is charged with 160lb. of salt, heated, and then 128lb. of oil of vitriol, at 66 deg. Baume; or, which is better, 133lb. at 64 deg. are poured in. The vapours are passed into 150lb. of water, contained in 4 eight-gallon bottles connected by bent pipes, the first of which is set in a trough of running water. The produce is about 208lb. of yellow, smoking, austere acid, at 23 deg. Baume, equal to sp. grav. 1.19, from each retort: that collected in the first bottle contains sulphuric acid, and sometimes muriate of iron, and sulphate of soda.

Muriatic acid obtained in manufacturing subcarbonate of soda, Acide hydrochlorique des bastringues. Salt 2,400lb., oil of vitriol 2,640lb., at 54 deg. Baume, distilled in a leaden pan, covered with the cast-iron under plates of a flue passing over and then under the leaden pan; the vapour is passed into several series of

large stone-ware jars, or aludels, placed one on the other, to the number of seven or eight. As the residuum must be drawn out while yet soft, there is only produced 1,920, or 2,160lb. of weak acid, at 21 deg. Baume: being about 2-3ds of the acid in the salt: the acid is yellow, and pleasanter to the taste than that distilled in iron.

Weber's marine acid. Bittern, or residuum of sea-water after the common salt has been obtained by evaporation, 5lb., oil of vitriol 1lb., previously diluted with water 2lb.; distil.

Acidum muriaticum dilutum, P. D. Spirit of salt, spec. grav. 1.170, distilled water, ana p. æq.; mix: the specific gravity should be 1.080. Muriatic acid is tonic, antiseptic, gtt. x—xx, well diluted in typhus, ʒss—ʒij in water ʒvj as a gargle in putrid sore throat, gtt. viij in water ʒiv as an injection in gonorrhœa. Used in the arts as a cheap acid: a small portion improves salted provisions: also as a test for silver, borax, ammonia.

SPIRIT OF NITRE WITH BOLE, *Spiritus nitri*. Nitre 1lb., clay 4lb., moisten, make into balls, and distil.

Aqua fortis, A. f. simplex. Copperas 2lb., white rough petre 1lb., mix and distil.

2. Spirit of nitre 20lb., oil of vitriol 7lb., water 30lb.; mix. Said (Elab. laid open) to be nearly the standard of the aqua fortis imported from Holland for the dyers.

Double aqua fortis, A. f. duplex. White petre, copperas, of each 6lb., copperas calcined to redness 3lb., distil.

2. Spirit of nitre 9lb., oil of vitriol 1lb.; mix: used by engravers and brass founders to clean their work.

Strong aqua fortis, Eau forte, Stark wasser. Copperas calcined to whiteness, white petre, of each 30lb., mix and distil in an iron pot with a stone-ware head: very red, smoking, has sometimes an oil floating upon it.

Julin's aqua fortis. Rough nitre, and calcined Fahlun aqua fortis vitriol No. 3, of each 4lb., distil; a white inflammable substance comes over with the acid, the nature of which is unknown. *Boerhaave's spiritus nitri Glauberi.* Nitre 3lb., oil of vitriol 1lb.; distil: gold colour, deep red vapour, scarcely confinable.

Geoffroy's spirit of nitre, Nitrous acid, Spiritus nitri fumans, Acidum nitrosum, A. nitroso-nitriticum. Nitre 60 oz., oil of vitriol 30 oz.; distil into a large receiver without water; yields about 30 oz.: red, and very smoking, sp. gr. 1.53.

2. Nitre 24 oz., oil of vitriol 12 oz., distil into a receiver connected at top with two bottles, the first containing water 1½ oz., the second 6 oz. The receiver contains a concentrated acid, sp.

gr. 1.55, the first bottle a weaker coloured acid, the second a pale acid slightly impregnated with nitrous gas.

Spirit of nitre. White petre 24lb., oil of vitriol 12lb.; distil into 6 pints of water.

Acide nitrique jaune ambre. Nitre 170lb., oil of vitriol 100lb., distil in a cast-iron cylinder connected, by elbow pipes, with four 10 gall. bottles half-filled with water; the first elbow pipe should be of glass, to permit the colour of the vapour being seen. The acid collected in the first bottle is impure, and may be used to make single aqua fortis, that in the second and third bottles is purer, that in the fourth bottle is put into the first bottle in the next distillation. Iron pots with stone-ware heads are also used: the acid thus obtained is redder, and yields less pale acid. It is usually sold sp. gr. 1.335, so that a bottle holding 5 oz. of water shall hold $6\frac{1}{2}$ oz. of this acid, or at 36 deg. Baume.

Nitric acid, Rectified spirit of nitre, Spiritus nitri decolor, Acide nitricum, P. E. Distil Geoffroy's spirit of nitre, in glass unluted vessels, until the acid in the retort becomes colourless. It must be kept in a dark place.

Acidum nitricum, P. Bat. Oil of vitriol and water of each 12 oz., mix, and when cool, pour upon nitre 24 oz., distil to dryness: if the acid is coloured, redistil it in unluted vessels until the acid becomes pale.

Acidum nitrosum dilutum, A. nitricum, P. Belg. Geoffroy's spirit of nitre lb. j, water lb. j, mix.

Acidum nitricum, P. L. Nitre very pure and dried, oil of vitriol, ana 24 oz., distil till red fumes appear; redistil from nitre 1 oz.: produces $15\frac{3}{4}$ oz. of white acid: the redistillation is useless; sp. gr. should be 1.5; an ounce measure of it, diluted with water, should dissolve ʒvij of limestone; or 108 gr. ought to saturate 212 gr. of crystals of subcarbonate of soda.—*Official preparation.* Acidum nitricum dilutum, L. Argenti nitras, L. Liquor ferri alkalini, L. Unguent. hydrargyr. nitratis, L. Hydrargyri nitrico-oxydum, L. Spiritus ætheris nitrici, L.

Acidum nitricum dilutum, P. L. Acid. nitricum ʒj measure, distilled water ʒix measure.

Van Mons' nitric acid. Nitre 7lb., manganese 1lb., oil of vitriol 4lb.; distil into water q. p.

Assayer's nitric acid, Proof aqua fortis, Aqua separataria. To pale nitric acid add a solution of nitrate of silver as long as any cloudiness is produced; let it settle for a few days, pour off the clear, and distil nearly to dryness.

Steinacher's purified nitric acid. Nitric acid 16 oz., litharge 2 oz., distil very slowly, leaving about 2 oz. in the retort.

Henry's nitric acid for assaying. Sp. grav. 1.143; has the same power of saturation as his muriatic acid at 1.074, or sulphuric acid at 1.135.

The stronger kinds of this acid are used as a caustic to warts, &c.; diluted so as not to injure the teeth, viz., of the strong acid gtt. j to x, in a small tumbler of water, is useful in liver complaints, lues venerea, nausea from dyspepsia, sea-sickness, &c.; in the arts, to dissolve metals or cleanse the surfaces.

Lemeri's solvent for antimony. Spirit of nitre 10 oz., oil of vitriol, muriatic acid, of each 4 oz.; dissolves regulus of antimony and its oxides.

Aqua fortis composita, P. L. 1745. Double aqua fortis 16 oz., common salt 3j; distil to dryness: used to make red precipitate, and cause the scaly appearance.

Dyer's aqua fortis. Nitric acid perfectly freed from nitrous gas, sp. gr. 1.17, 100lb.; muriatic acid sp. gr. 1.19, 5lb.; mix: dissolves tin without oxidizing it.

Spiritus nitri bezoardicus. Precipitate butter of antimony by sp. nitre, and distil off the acid.

Aqua regia. Spirit of nitre 16 oz., common salt 4 oz.; dissolve.

Aqua regia made with sal ammoniac. Spirit of nitre 16 oz., sal ammoniac 4 oz.; dissolve: very expensive, and difficult to keep.

NITRO-MURIATIC ACID, Hydrochloronitric acid. Nitric acid at 33 deg. Baume 1lb., muriatic acid at 20 deg. 3lb.; mix. All are used to dissolve gold and platinum.

ACIDUM NITRO-MURIATICUM DILUTUM. *Acidi nitrici, Acidi muriatici, sing. Oss. Aquæ distillat, Oj.* For the nitro-muriatic acid wash, or bath; three ounces of this acid being required to every gallon of the water for the bath, but double this quantity when used as a wash or lotion. In affections of the liver, and for internal obstructions.

LIQUID CHLORINE, Oxymuriatic acid, Dephlogisticated spirit of salt, Acidum oxymuriaticum, Aqua oxymuriatica, Chlorum aquâ solutum. Common salt 3lb., manganese 1lb., oil of vitriol 1½lb., water 1lb.: distil, and pass the vapour through 3 or 4 bottles half filled with water; pale greenish yellow, scarcely heavier than water; used in syphilis and scarlatina, ʒss to iij, in water ʒviii, taken, by small doses, in a day: bleaches linen, straw, and takes out fruit spots, iron moulds, or ink marks.

PHOSPHORIC ACID, *Acidum phosphoricum*. Bone ash in fine powder 48 oz., oil of vitriol 26 oz., water 16 oz.; boil for two hours in a tin vessel, strain, add fresh water until all the acidity is extracted, mix the waters and boil to 36 oz., at first in a tin, and then in a porcelain vessel. Add subcarbonate of ammonia water as long as any sediment falls; filter, evaporate, remove into a porcelain crucible, and reduce it by evaporation and fusion in silver vessels to a clear glass, which weigh and dissolve in six times as much water.

2. By adding phosphorus gradually to nitrous acid in a pierced retort; when all the phosphorus is dissolved, the remaining nitrous acid is distilled off; used in caries of the teeth and bones, gutt. xv to xl, in water ʒij every two hours; it has been also employed externally in caries ossium, compresses moistened with the acid diluted with eight parts of distilled water being applied over the ulcers, under which the bone was carious.

GERMAN OIL OF VITRIOL, *Oleum vitrioli, Spiritus vitrioli fortis, Acidum sulphuricum Germanicum*. Calcine copperas to redness, distil in small charges for about 18 hours, although it will continue to emit vapour for 10 days. Boerhaave from 8lb. copperas calcined to 5lb., in 2 retorts, obtained 21 oz. of thick black smoking oil, and 52 oz. of light powdery colcothar were left, 8 oz. passed off uncondensed. Bernhard from 6 cwt. calcined to a yellowish red, distilled apparently in 12lb. charges, the phlegm collected in dishes until very acid, and white vapours began to appear, and then $\frac{1}{2}$ lb. put into each receiver, which were luted on, obtained only 64lb.

Nordhausen oil of vitriol, Acide fumante de Nordhausen. From copperas calcined to redness, distilled in 3lb. charges in earthen cucurbites set slanting, to get out the colcothar without disturbing them, the phlegm allowed to drop into a dish until white vapours appear very copiously, receivers then applied and luted with $\frac{1}{2}$ lb. water in each in the first distillation: 3 charges of each retort are distilled into each receiver before the acid is poured out; black, very smoking, sp. gr. 1.9, or 68 deg. Baume; by exposure to air, or boiling, it ceases to smoke, and becomes similar to the acid obtained from sulphur. Dissolves a larger quantity of indigo than the acid from sulphur; the solution requires no heat, and is of a beautiful purple colour. From Nordhausen in Saxony, also from Bleyl in Bohemia, where a manufactory of it has been established from time immemorial. Used in dyeing.

White smoking sulphuric acid. Copperas calcined to redness 20lb., distil and receive the vapours in oil of vitriol from sulphur 7 $\frac{1}{2}$ lb.; produces 10lb. of smoking acid, perfectly similar to the Nordhausen except in colour.

2. Distil several successive charges of red sulphate of iron into a small quantity of distilled water.

Anhydrous sulphuric acid, Icy oil of vitriol, Oleum vitrioli glaciale. From calcined copperas, as the German oil, not putting on a receiver until the white vapours come out very copiously, and putting no water or phlegm into it. Bernhard from 6 cwt. of copperas obtained 50lb.

2. By distilling Nordhausen oil of vitriol in luted vessels; the icy oil sublimes into the neck of the retort, while the hydrated acid passes over in a liquid form.

3. By distilling calcined copperas a number of times into the same portion of English oil of vitriol; white, transparent crystals, smoking very much; melts at 66 deg. Fahr. and crystallizes at 77 deg.; contains no water.

Acidum sulphuricum depuratum, P. Belg. German oil of vitriol boiled in a bolt head on a sand bath, until it admits no watery vapours, and becomes pale.

Acidum sulphuricum purum, P. Belg. German oil of vitriol 2lb.; distil in a very large retort in a sand bath into an unluted receiver, by a heat not exceeding that of boiling water, as long as large drops of water form in the neck; then augment the heat even to boiling, and when oily streaks appear and the vessels are filled with the white vapours of sulphuric acid, apply another receiver previously warmed, and distil, at the rate of 4 drops in a minute, to dryness.

Oil of sulphur by the bell, Oleum sulphuris per campanam. Burn sulphur in a moist place and during moist weather under a glass, bell, or some similar vessel, previously moistened on the inside with the steam of water; collect what drops from the bell in a glass plate, and distil it until white vapours begin to appear, the oil of sulphur remains in the retort. The purest sulphuric acid; but it was esteemed good workmanship to obtain 5 oz. from each bell in 24 hours.

Common oil of vitriol, Sulphuric acid, Oleum vitrioli Anglicum, Acidum sulphuricum Anglicum. Mix sulphur 100lb. with salt-petre 100 or 120lb., burn it by degrees upon a plate of hot iron, conduct the vapour into a chamber of 5000 or 10,000 cubic feet capacity, formed of sheet lead, having at the bottom a layer of two or three inches of weak sulphuric acid. A small hole, about two inches above the level of the burning sulphur, must be left to allow a draught of air to enter the chamber, and a chimney at the further end to let it pass off. Inject occasionally a shower of water, and draw off every morning the acid that was made during the preceding day, leaving the original depth on the floor of the

chamber. Evaporate this acid in leaden pans to sp. gr. 1.532 or 50 deg. Baume; then distil it in glass retorts, or a platina still with a leaden head, until all the water has come over, and the acid is brought to sp. gr. 1.845 or 66 deg. Baume, so that a bottle holding 12 oz. of water should hold full 22 oz. of this acid; the produce is from 2500 to 2600lb. of acid.

2. Upon an iron dish set on a furnace, and communicating with a leaden chamber 50 feet long, 27 wide, and 15 high, the bottom of which is covered with a sheet of sulphuric acid, sp. gr. 1.075 or 10 deg. Baume, throw 100lb. of rough brimstone, which should take fire immediately: at the same time the vapour from the mixture of 1lb. of treacle and 9lb. of smoking nitrous acid, heated in a bolt head, set on the sand bath of an adjoining furnace, is admitted about two feet above the burning sulphur. In two hours' time the steam of 10 gallons of water is to be admitted, and a small hole opened just above the burning brimstone to admit the air. When the steam is condensed, the door by which the brimstone was introduced, and two chimneys at the further end of the chamber, are opened to renew the air in the chamber for a fresh operation. Four operations may be made in 24 hours, but it is preferable to perform only three, or even two. The acid drawn off is about sp. gr. 1.384 or 40 deg. Baume; if less steam is injected and the sp. gr. raised to 1.532 or 50 deg. Baume, it absorbs some of the nitrous gas, which cannot afterwards be separated from it, and which renders it unfit for making the solution of indigo used by the dyers. The acid thus obtained is then concentrated as before. This produces 300lb. of acid, sp. gr. 1.845 or 66 deg. Baume, from each 100lb. of brimstone, which is only 12lb. less than the theoretical product. The abstraction of the nitric acid from the treacle produces oxalic acid, which saves the whole expense of the saltpetre.

Hill's patent oil of vitriol. The native sulphuret of iron, or martial pyrites, is distilled, and an imponderable substance, as the patent terms it, is to be injected into the chamber; this may be oxygen gas from black oxide of manganese.

Henry's sulphuric acid for assays. Rectified oil of vitriol diluted to sp. gr. 1.135: it has the same power of saturation as his nitric acid and muriatic acid.

Rectified oil of vitriol, Oleum vitrioli rectificatum. Distil, in a sand pot, oil of vitriol 4 oz. at a time in a large green-glass retort into an unluted receiver, fitting very loosely to the retort. Dr. Bryan Higgins observed, that green glass was apt to crack, and that even flint glass retorts would crack if the sand rose up higher than the evaporable charge. Dr. Ure says, he can distil a pint or nearly 2lb. of acid in a continuous stream, without heating the

receiver in the least, by using a plain glass retort capable of holding 2 or 4 quarts of water, putting into the acid a few fragments of glass, and connecting the retort with a large globular receiver by a glass adapter 4 feet long, and from 1 to 2 inches in diameter, unluted and fitting very loosely at each end, that the vapours which rush forth occasionally may not burst the vessels; the retort is to be placed over a charcoal fire, and the flame made to play loosely on its bottom. Sulphuric acid is used as a caustic to warts or wounds, and in many trades, particularly dyeing, so that 3000 tons of it are consumed yearly in the British islands.

Spirit of vitriol, Spiritus vitrioli, Sp. vitrioli tenuis. The phlegm that comes over, in rectifying the acid distilled from green vitriol, sp. gr. 1.200.

Acidum sulphuricum dilutum, P. E. and P. D. Sulphur. acid 1 oz., water 7 oz., both by weight.

Vitriol to clean coppers, Acidum sulphuricum dilutum, P. L. Sulph. acid 1 oz., water 7 oz., both by measure.

Elixir of vitriol, Elixir vitrioli. Water q. p. add oil of vitriol q. s. to give a grateful acidity. Tonic, astringent, gtt. xx to ʒij, in a cup of water; or ʒj to ʒviij water for a gargle to check a salivation: used by workmen and servants to clean copper and iron work; also, as a cheap acid in punch or acid stews instead of lemons, and to give strength to poor vinegar.

Sulphurous acid, Aqua sulphurata, Gas sulphuris. Collected by burning brimstone 2lb. under a glass jar, standing with its mouth downwards in a plate of water, holding two pints till the water is sufficiently acid.

2. Oil of vitriol 8 oz., quicksilver 4 oz., boil in a retort, and pass the gas into a pint of water: the bottom will serve for making turbith mineral or corrosive sublimate.

3. Oil of vitriol 3 oz., charcoal in small pieces 1 oz., distil into 3 pints of water; cheap, but much carbonic acid gas is produced, which incommodes the operation, and the bottom is of no use.

4. Oil of vitriol 1 oz., sulphur ʒj, dissolve and add water 6 oz. Used to bleach silk, straw, take fruit-stains out of linen, to analyze iron and steel, and stop the fermentation of wine.

SPIRIT OF AMBER, Spiritus succini.—Volatile salt of amber, Succinic acid, Sal succini, Acidum succini. Obtained by distillation from amber, pressing the acid salt between blotting-paper, and either subliming it again, or dissolving it in water and crystallizing: antispasmodic, diuretic, gr. v to ʒj.

IX. WATERY LIQUIDS.

NATURAL WATERS.

THE salts obtained by the evaporation of a mineral water are not to be considered as its real contents, because new combinations are formed during the process, and the most insoluble compounds possible are separated first: whereas, in the original water there is good reason to suppose the real mode of composition is that of the most soluble compositions that are capable of being formed from the remote principles contained in the water. Hence those common products, sulphate of lime and muriate of soda, probably exist in mineral waters as sulphate of soda and muriate of lime, and it is to the presence of the latter salt that much of the medical effects of mineral waters is to be ascribed.

RIVER WATER, *Aqua fluviatilis*;—Rain water, *Aq. pluvialis*. Are the purest of the common waters.

Snow water, *Aq. nivalis*. Is also very pure.

Spring water, *Aq. fontana*. Generally contains sulphate of lime and muriate of soda. The purest spring waters hitherto discovered are the Malvern spring water of England, and the Madras spring water of India, which is even superior to the Malvern.

ACIDULOUS WATERS, *Acidulae*. Taste acid, sparkle on being poured out; contain an excess of carbonic acid, and almost constantly common salt, with some of the earthy carbonates.

CHALYBEATE WATERS, *Aquæ chalybeatae*. Strike a black colour with oak bark or other vegetable astringents, sometimes are also acidulous; these deposit their iron upon boiling, as those of the Spa and Pymont; others vitriolic, and retain their power of striking a black colour after being boiled and filtered, as that of Westwood in Derbyshire.

SULPHUREOUS WATERS, *Aq. sulphureæ*. Stink like rotten eggs, blacken silver and lead, contain sulphuretted hydrogen, either uncombined or united to lime or an alkali. Harrowgate is well known.

HARD WATERS, *Aq. fontanæ*. Curdle soap even after boiling; contain sulphate of lime.

SALT WATERS, *Aq. salinæ*. Easily recognised by their saline taste, and the salt crystallizing in cubes; precipitate the solution of silver, lead, or quicksilver in spirit of nitre, forming a white cloud.

PURGING WATERS, *Aq. catharticae*. Bitter, purgative, preci-

precipitate the solution of silver, lead, or quicksilver in spirit of nitre, forming a yellow cloud; not affected by acids, but afford a precipitate with subcarb. of potash; contain Epsom salt; the springs of Bagnigge Wells, Dulwich, and Epsom, are of this nature.

ALKALINE WATERS, *Aq. alkalinae.* Change blue vegetable colours to a green, effervesce with acids, yield a precipitate with alum water. Tilbury water is an example.

COPPER WATERS, *Aq. cupreae.* Turn blue with liquid subcarb. of ammonia, if not already of that colour; cover iron left in them with a coat of copper; contain blue vitriol; found near copper mines, poisonous.

ALUMINOUS WATERS, *Aq. aluminosae.* Change vegetable blue to a red, even after standing some time in the open air, effervesce with alkalies, and are decomposed, precipitating in flocculi.

PETRIFYING WATERS, *A. lupidificantes.* Deposit an earthy sediment on standing or by boiling; unwholesome.

STYGIAN WATER, *Aqua Stygis.* Corrodes glass and earthenware, contains fluoric acid: poisonous, reported to have been exhibited to Alexander the Great, and to have occasioned his death, the water being carried from the spring in Arcadia, in a horse's hoof: another spring of this kind has been lately found in Prussia, and closed up by the government.

SEA WATER, *Aqua marina.* Contains common salt and Epsom salt in large quantity; purgative, but should always be filtered through paper to separate the fine sand and invisible mollusca that it contains: the taste is best covered by mucilage of salep. It is the usual clyster on board ship. Many attempts have been made to obtain fresh water from it at sea.

MAYDEW, *Ros majalis.* Collected by sponges off the grass: used as a cosmetic.

SENNA SULA VINEGAR, *Cadalay poolippoo neer.* The night dew wrung out of muslin spread over horse gram while growing: used in India as the common vehicle for medicines; contains oxalic, malic, and acetic acids.

ARTIFICIAL WATERS.

DISTILLED WATER, *Holy water, Aqua distillata, Aq. depurata.* Rain or river water 10 gall. distil, throw away the first half gallon, and draw off 6 gall., which keep in glass or stone ware vessels, covered only with paper caps to admit the absorption of air. Used as a diet-drink in cancerous diseases, and in the religious ceremonies of the Catholic church. 9 parts of water are resolvable into 8 of oxygen and 1 of hydrogen by weight.

ARTIFICIAL SEA WATER, *Aqua marina arte facta.* Water 5 gall. muriate of soda $\bar{3}x$, muriate of magnesia $3x$, muriate of lime $\bar{3}ij$, sulphate of soda and sulphate of magnesia of each $3vj$; dissolve: dose $\bar{3}iv$, or as a bath.

WATER IMPREGNATED WITH FIXED AIR, *Carbonic acid, Aqua acidulata cum acido carbonico, Acidum carbonicum.* Put marble in coarse grains into a bottle wetted beforehand, and add by degrees a sufficient quantity of muriatic acid, at 10 deg. Baume, to dissolve the marble; pass the gas by means of elbowpipes through two or three bottles, the first having only a small quantity of water to absorb any muriatic acid that may come over, the others containing between them about a gallon of water for each half ounce of marble employed: an agreeable summer drink. The muriatic acid in the residuum may be obtained for future use, by adding oil of vitriol as long as any sediment falls.

SINGLE SODA WATER, *Aqua acidi carbonici.* Impregnate water by means of an apparatus made for the purpose, and which will allow considerable pressure to be applied, with five or ten times its bulk of carbonic acid gas (each ounce of marble yields nearly two gall. of the gas), and transfer the impregnated water into half-pint bottles, to be well corked and wired. The gas escapes as soon as the bottle is opened, and gives the water an agreeable piquancy.

CARBONATED LIME WATER, *Aqua calcaria acidula.* Lime water 1 pint, distilled water 2 pints; pass carbonic acid gas through it, until the water, which at first is rendered cloudy, becomes transparent again. Used in calculous complaints.

ARTIFICIAL SPA WATER, *Aqua carbonatis aciduli sodæ mixta.* Water 5 gall. carbonate of lime $\bar{3}ij$, carbonate of magnesia $\bar{3}j$, subcarbonate of soda $5vj$, muriate of soda $\bar{3}jss$; dissolve, and pass through it the carbonic acid from marble $\bar{3}ij$.

ARTIFICIAL CHALYBEATE WATER, *Aqua carbonatis aciduli ferri.* Water impregnated with fixed air 1 pint, iron filings $\bar{3}j$; keep in a cool place for 24 hours: pour off the clear.

AQUA SUPERCARBONATIS POTASSÆ. Oil of vitriol $\bar{3}ij$, water lb. ij ; mix, and add gradually marble powder $\bar{3}ij$; pass the gas that is discharged through water 1 gall. with subcarb. of potash $\bar{3}j$ dissolved in it, in a proper apparatus, to secure considerable pressure, and enable the bottles containing it to be corked without letting the gas escape till drunk.

DOUBLE SODA WATER, *Aqua subcarbonatis sodæ.* Prepared by putting 1 gall. water and subcarb. of soda $\bar{3}ij$ in bottles, and passing carbonic acid gas through it. Used largely as a cooling beverage in summer: beneficial in calculous complaints.

LIQUID MAGNESIA, *Aqua magnesiæ*, P. U. S. Water 8 pints, carbonate of magnesia ʒij ; mix, and impregnate with carbonic acid gas, as in making double soda water.

HYDROSULPHURIC ACID, *Water impregnated with hepatic gas*, *Acidum hydrosulphuricum*, *Aqua hydrosulphurata*, *Aqua hepatica*, *Acidum hydrothionicum*. Sulphuret of iron ʒj , dilute sulphuric acid ʒij ; dissolve, and pass the gas into a large bottle inverted in a tub of water, until $\frac{2}{3}$ of the water that filled it is expelled; stop the bottle under water, and shake it well, loosening the stopper now and then, that the air may enter: when the water is saturated with the gas, it is to be kept in smaller bottles, well stopped. Used in gout, Devonshire colic, and diseases from quicksilver: a teacup daily, or as a bath.

SALINE SULPHUR WATER, *Aqua sulphurata salina*. Dissolve what salts appear necessary in water, and pass into the solution either sulphuretted hydrogen gas only, or a mixture of that and carbonic acid gas.

HAHNEMAN'S WINE-TEST, *Aqua hydrosulphurata acidula*, *Aqua sulphurato-acidula*, *Aqua hepatica acidula*, *Liquor probatorius Hahnemanni*. Quicklime ʒj , flowers of sulphur ʒjss ; heat in a covered crucible for 5 or 6 minutes; of this take ʒij , tartaric acid ʒij ; powder, mix, and shake in a stopped bottle with a pint of water; let it settle, pour off the clear, and add tartaric acid ʒjss . Used as a test for discovering lead in wines; also in diseases arising from quicksilver.

WINES.

The purer kinds of fermented liquors are mixtures of spirit of wine, water, and extractive matter; the spirit may be separated by careful distillation, or, if the extractive matter be first got rid of by the addition of subacetate of lead and filtration, the spirit may be separated by adding very pure and dry subcarb. of potash, when it will swim upon the liquor: the spirit constitutes from 12 to 25 per cent. of the proper wines, and from 2 to 8 per cent. of the malt liquors.

Two chemists have examined the quantity of alcohol to be obtained from the fermented liquors mostly in use—Newmann and Brande. It appears from the comparison of their experiments, that the wines of the present day are much stronger than they were about 80 years ago, at least in England, probably owing to the addition of brandy. Two-bottle men now actually drink more alcohol than their six-bottle grandfathers.

The fermentation of these liquors is usually hastened by the addition of yeast, crude tartar, or bruised vine-leaves; but this is

seldom necessary for wines, if the liquor be kept in a proper warmth, but malt liquors are more sluggish.

If the fermentation is in danger of proceeding too far, it may be stopped by drawing off the liquor clear into another vessel, in which some brimstone has been newly burned, or, in the case of red wine, some nutmeg powder upon a hot shovel, or which has been washed with brandy; the sediment left in the old cask may be strained through flannel or paper till clear, and added to the other: instead of this, a part only may be drawn out of the cask, and some rags, dipped in melted brimstone and lighted, may be held by a pair of tongs in the bung-hole, slightly covered, so as to impregnate the liquor with the fumes, about 1 oz. brimstone to a hhd., then returning what had been drawn out, and bunging up very close: or a small quantity of oil of vitriol may be poured in: lastly, the addition of black manganese has been proposed on theoretical grounds.

If the fermentation has already proceeded too far, and the liquor become sour, the further fermentation must be stopped as above, and some lumps of chalk or burned oyster-shells, added to saturate the acid already generated.

If the liquors do not become clear soon enough, for each 36 gall. dissolve isinglass 1 oz. in water 2lb.: strain, and mix this with part of the liquor; beat it up to a froth, and pour it into the rest of the liquor; stir the whole well, and bung it up. Instead of isinglass, some use hartshorn shavings in rather larger quantity; red wines are fined with eggs, No. 12 to the pipe, beaten up to a froth, mixed with the wine, and well stirred in.

If the liquor has acquired a bad flavour, the best way is to let the fermentation go on, and convert it at once into vinegar.

Wines may also be made of blackberries and other English fruits, upon the same principles. The above are the methods generally employed; but most persons have peculiar ways of proceeding, which may indeed be varied to infinity, and so as to produce at pleasure a sweet or dry wine; the sweet not being so thoroughly fermented as the dry. The addition of brandy destroys the proper flavour of the wine, and it is better to omit it entirely (except for elder or Port wine, whose flavour is so strong that it cannot well be injured), and to increase the strength by augmenting the quantity of the raisins or sugar. In general, the must for wines ought to be made of raisins 6lb., or sugar 4lb., to the gall., allowing for that contained in the fruit; and in most fruits, especially the black currant, it is advantageous to boil them previously to making them into wine, as this improves the flavour greatly.

Wines are usually doctored, as it is called, in order to give

them peculiar flavours, and render them similar to some celebrated grape wines. Thus bitter almonds are added to give a nutty flavour; sweet briar, orris root, clary, cherry, laurel water, and elder flowers, to form the bouquet of high-flavoured wines; alum, to render young and meagre red wines bright; Brazil wood, cake of pressed elderberries and bilberries, to render pale faint Port of a rich deep purple colour; oak sawdust, and the husks of filberts, to give additional astringency to unripe red wines; and a tincture of the seeds of raisins to flavour fictitious Port wine. Wine is coloured with red beet, but in this case it is rendered colourless by lime water. Genuine red wines yield a greenish grey precipitate, with a solution of sugar of lead; but those coloured with bilberries, elderberries, or logwood, give deep blue precipitates, and those coloured by Brazil wood, red sanders, and red beet, red precipitates. Gypsum is used to clear cloudy white wines, as also lime; and the size of a walnut of sugar of lead, with a table spoonful of sal enixum, is put to 4℥ gall. of muddy wine to clear it; and hence, as the sugar of lead is decomposed, it is changed into an insoluble sulphate of lead: the practice is not so dangerous as has been represented by those afflicted with the poison mania.

GRAPE WINES.

MADEIRA, *Vinum Maderaicense*. Rich, full-bodied, sweet, the acid being absorbed by adding raw plaster of Paris stone; by which means the wine is enabled to be sent to the East and West Indies to ripen it, and from thence to London, without turning sour during the voyage. Useful in bites of poisonous snakes, a bottle drank in two doses, a few minutes one after the other. Yielded to Newmann 6·59 in the 100 of spirit by weight, to Brande 22·27 by measure.

CANARY SACK, *Palma sack, Vidonia, Fayal, Teneriffe, V. Canarium, Vinum*, P. U. S. An inferior kind of Madeira. Newmann, Palma sack 6·59; Brande, Teneriffe 19·79; Vidonia 19·25 of spirit.

SHERRY, *Vinum Xeres, V. album Hispanicum, Vinum*, P. L. Dry, well-fermented. Newmann 6·59; Brande 19·17.

MOUNTAIN WINE, *Vinum album montanum, V. album Hispanicum*. Sweet.

RHENISH, *Hock, Vinum Rhenanum*. Acerb, made from scarcely ripened grapes; when mixed with sugar has a fine perfume. Newmann 6·25; Brande 12·08.

LISSA. Brande 26·47, being the strongest examined by him.

BURGUNDY, *V. Burgundicum*. Like most French wines made from selected grapes (the bad berries being cut off the stalks),

pressed, and only the juice fermented; red: esteemed the best wine that is made. Newmann 6·25; Brande 14·57.

CLARET, *Vin de Bordeaux, Vinum Burdegalense*. Thin, rather acid. Brande 15·10.

CHAMPAGNE, *Vinum Campanacense*. White and red, mostly effervescent when the bottle is opened. Newmann 7·29; Brande 12·61.

LISBON, *V. Olissoponense*. Yielded to Brande 18·94 per cent.

BUCELLAS. 18·49 per cent of spirit.

CALCAVELLA. 18·65 per cent.

SPANISH RED, *Tent, Vinum tintum*. Newmann 8·33; Brande 13·3.

MALAGA. Brande 18·94.

FRONTINIA, *Vinum Frontignacense*. Newmann 8·33; Brande 12·79.

MARSALA. Yielded to Brande 25·9.

COLARES. 19·75.

LACRYMA CHRISTI. The best Italian wine; 19·7.

WHITE CONSTANTIA. The best Cape wine; 19·75.

RED CONSTANTIA. 18·92.

RED MADEIRA. 20·35.

CAPE MUSCHAT. 18·25.

CAPE MADEIRA. 20·51.

ALBA FLORA. 17·26.

MALAGA. 17·26.

WHITE HERMITAGE. Newmann 7·98; Brande 17·43.

RED HERMITAGE. Yielded to Brande 12·32.

ROUSSILLON. 18·13.

MALMSEY MADEIRA. Newmann 11·11; Brande 16·40.

LUNEL. Yielded to Brande 15·52.

RED SHIRAZ. A famous Persian wine; 15·52.

WHITE SHIRAZ. Made in India from the small Kishtnish grape; yields 19·80.

SYRACUSE. Imported in thin quart flasks; yielded to Brande 15·28.

SAUTERNE. 14·22.

NICE. 14·63.

BARSAAC. 13·86.

VIN DE GRAVE. Newmann 5·55; Brande 13·37.

COTE ROTEE. Yielded to Brande 12·32.

TOKAY, *V. Tokayense*. Newmann 6·25; Brande 9·88.

ALAND, *V. St. Helenii*. Yielded to Newmann 4·85.

ALICANT, *V. Illicitanum*. 10·41.

MUSCADINE, *V. Moschatellinum*. 8·33.

NEUFCHATEL, *V. Neocastrense*. 9·02.

MONTE PULCIANO, *V. de Monte Pulciano*. 7·63.

MOSELLE, *V. Mosellanum*. 6·25.

PONTAÇ, *V. Pontacense*. 5·55.

SALAMANCA, *V. Salamancense*. 8·33.

RED TYROL WINE, *V. Tyrolense rubrum*. 4·16 of spirit in the 100 by weight.

EAST INDIAN GRAPE WINE. From small dried Kishmish raisins; yields about 21 p. c. of spirit by measure.

PORT WINE, *Vinum rubrum Portugallicum, V. ex Portu Calensi*. Dark red, made from grapes gathered without selection, flung into a cistern, trod, and their skins and stalks left in the mass, which separate during fermentation, and form a dry head over the liquid; when the head begins to fall, the liquor underneath is drawn out, and casked; before being brought to England it is mixed with 1-3rd of brandy to enable it to keep during the voyage, otherwise the carriage brings on the acetous fermentation, and the wine is converted into vinegar; acerb. Yielded to Brande 22·18 of spirit.

RAPE WINE, *Piquette, Leger, Lora*. Water poured upon the cake of grapes, and fermented; used as a common drink for servants.

2. Pour water upon grapes, and replace what is drank every day, adding a little brandy when it grows weak.

RAISIN WINE. Raisins 1 cwt., water 16 gall., soak for a fortnight, stirring every day, press, put the liquor in a cask with the bung loose, till it has done hissing, then add brandy 2 to 4lb., and bung up close: some use little more than half, or 2-3rds of this quantity of raisins. The cake left on pressing will serve to make vinegar. Yields 25·12 in the 100 of spirit.

MADE WINES.

ENGLISH GRAPE WINE. From the juice of out-of-door grapes, or from an infusion of about 50lb. of the young leaves or cuttings of the vine in 7 or 8 gall. of water, adding sugar about 3lb. to each gallon of liquor. Yields 18·11 p. c. of spirit.

GOOSEBERRY WINE. Ripe berries bruised 10 gall., water 30 gall., soak 24 hours, strain; to each gallon add Lisbon sugar 2lb., and ferment.

2. Bruised berries 80lb., water 10 gall., soak for a day, strain; to each gallon add loaf sugar 6lb., and ferment.

3. Juice 10 gall., water 20 gall., sugar 70lb.; ferment.

4. Berries 100lb., brown sugar 8lb., water a sufficient quantity to fill a 15-gallon cask. Yields a good yellowish white, very transparent wine.

5. Green berries 40lb., water 4 gallons, bruise together; the next day press out the juice; to every gallon add sugar 3lb.; ferment. Gooseberry wine yields on an average 11·84 in the 100 of spirit. The seeds left in the cake are washed and roasted for coffee.

CURRANT WINE. Red currants 70lb., bruised and pressed, brown sugar 10lb., water sufficient quantity to fill up a 15-gall. cask. Yields a pleasant red wine, rather tart, but keeping well.

2. White currants 1 sieve, red currants 1 gall., press; to each gall. of juice add 3 gall. water; to 10 gall. liquor add 30lb. sugar, and ferment; when you bung it up add brandy 2lb. to each 10 gall. of wine.

3. Juice 11 quarts, i. e. the produce of a sieve, sugar 20lb., water sufficient quantity to fill up a 9-gall. cask; ferment, and when it has done working, add brandy 4lb.; for a half hogshead use currants 3 sieves, sugar 84lb., brandy 1 gall. Yields about 20·55 in the 100 of spirit.

BLACK CURRANT WINE. Berries 20lb., brandy 2 to 4lb., water 12 to 14 gall., yeast 2 spoonsful; fermented for eight days, then bottled and well corked; pleasant but thick, rather vinous, cooling, dark purple colour.

2. Made into wine like the common currants.

3. Juice of boiled fruit and water p. æq.; to each quart of liquor add sugar 1lb., and ferment.

MIXED FRUIT WINE. White currants 3 sieves, red gooseberries 2 sieves, these should yield 40 pints of juice; to each gallon add water 2 gall., sugar 3lb. and a half; ferment.

2. White, red, and black currants, cherries, especially black-heart, raspberries, ana p. æq.; to each 4lb. of the bruised fruit add water 1 gall., steep for three days, press, and to each gallon of liquor add yellow sugar 3lb.; ferment, and when finished add to each 9 gall. 2 pints of brandy; if it does not fine soon enough, to each 9 gallons add half an oz. of isinglass dissolved in a pint of water.

3. Fruit, any that is to be had quite ripe, press the juice, and if very rich in flavour, an equal quantity of water may be added; to each gallon of liquor add 4lb. of sugar, and ferment.

CHERRY WINE. Cherries 30lb., moist sugar 5lb., water suff. quantity to fill a 7-gallon cask; ferment.

PINE-APPLE WINE. From the juice of the fruit; very pleasant, used to flavour rum.

CIDER, *Pomatium*. From the juice of apples, Yields from 5·21 to 9·87 p. c. of spirit.

Water mol. Water poured upon the cake of apples, and fermented; used for farm-servants' drink.

PERRY, *Pyraceum*. From the juice of pears, particularly the rough-tasted sorts: fermented in the open air. Yields 7·26 in the 100 of spirit.

PORT. Cider 24 gall., juice of elderberries 6 gall., Port wine 4 gall., brandy 1 gall. and a half, logwood 1lb., isinglass 12 oz., dissolved in a gallon of the cider: bung it down; in two months it will be fit to bottle, but should not be drank until the next year: if a rough flavour is required, alum 4 to 6 oz. may be added.

SOUTHAMPTON PORT. Cider 36 gall., elder wine, damson wine, of each 11 gall., brandy 5 gall.

RAISIN WINE. Cider, not of a rough flavour, 36 gall., raisins 112lb.: ferment.

COLEPRESS'S CIDER. From apples and mulberries pressed together, well flavoured, and of a beautiful colour.

POST. From poppy heads and brown sugar: very intoxicating and narcotic: made in the East Indies. The English fruit wines differ from those made from the grape; by containing the malic acid instead of the tartaric.

METHEGLIN, *Hydromel vinosum*. Honey 1 cwt. boiling water suff. quant. to fill a half hogshead or 32-gall. cask, stir it well for a day or two, add yeast, and ferment; some boil the honey in the water, with an oz. of hops to each gallon, for an hour or two, but this boiling hinders its due fermentation: yields about 7·32 in the 100 of spirit.

MEAD. Is made from the honeycombs, from which the honey has been drained out, by boiling in water, and then fermented; generally confounded with metheglin.

COWSLIP MEAD. Honey 30 lb., water 15 gall. boil; when cold, add lemons sliced, No. 18, cowslip pips 14 gall., yeast 8 oz., and sweet briar one handful: ferment and bottle.

CHAMPAGNE. Brown sugar 10lb., loaf sugar 12lb., water 9

gall., concrete acid of lemons or crystallized acid of tartar 3vj; dissolve by a gentle boil, before it grows cold add yeast about 1lb., and ferment: when the working is nearly over, add perry 1 gall., brandy 3lb., and bung it up for three months, then draw out 2lb. of the wine, dissolve isinglass 1 oz. in it, pour it again into the cask, and in a fortnight bottle it.

PINK CHAMPAGNE. Add cochineal 1 oz., when the preceding is first bunged.

MUSCADELL, *Clary wine.* Sugar 45lb., water 15 gall., boil, add gradually to it a pint of yeast, infuse in it for three days clary flowers 3 gall., then strain; ferment as usual, and then add 1 gall. brandy.

COWSLIP WINE. To each gallon of water add 3lb. of white sugar; add yeast, and ferment a day and a half, then add cowslip flowers 1 gall., the rind and peel of 2 lemons or Seville oranges to each gallon, the third day strain, and continue the fermentation.

ELDER WINE. Juice of the berries 6 gall., water 12 gall., brown sugar 60lb., dissolve by boiling, add yeast, and ferment, then add brandy 4lb., and bung it up for three months: disagreeable when cold, but is mulled with allspice, and drank warm in winter time as a stimulant: 100 meas. yield about 9·87 of spirit.

FRONTINAC, *White elder wine.* Water 6 gall., white sugar 18lb., raisins 6lb., flowers of white-berried elder half a gall., lemon juice 8 oz., yeast 6 oz.; ferment and bottle.

GINGER WINE. Bruised ginger 12 oz., water 10 gall., boil for half an hour, add sugar 28lb., boil till dissolved, then cool, and cask the liquor along with 14 lemons sliced, and 3lb. of brandy, add a little yeast, and ferment; bung it up for three months, and then bottle it.

ORANGE WINE. Sugar 23lb., water 10 gall., boil, clarify with the white of six eggs, pour the boiling liquor upon parings of oranges, No. 100, add the strained juice of these oranges and yeast 6 oz.; let it work for three or four days, then strain it into a barrel, bung it up loosely; in a month add brandy 4lb., and in three months it will be fit to drink.

2. Loaf sugar 56lb., juice of 140 Seville oranges, peel of 40 of the oranges, water 15 gallons; ferment and add brandy 2 pints. 100 pints yield about 11·26 of spirit.

LEMON WINE. Raisins cut in half 2lb., brown sugar 2lb., boiling water 2 gall., rind of 2 lemons, ferment for two days, strain, bottle in half-pint stone bottles, wire the corks; it will be fit for use in a little more than a fortnight.

GINGER BEER. Lump sugar 3lb., bruised ginger 2 oz., cream

of tartar 1 oz., lemons sliced No. 4, pour on them boiling water 4 gall., add yeast 8 oz., work for four days, then bottle in half pints, and tie the corks down.

2. Moist sugar 6lb., ginger 5 oz., cream of tartar 2 oz., lemons No. 4, yeast 8 oz., water 7 gall.; work two or three days, strain, add brandy 1lb., bung very close, and in fourteen days bottle it: a cooling effervescent drink in summer.

IMPERIAL POP. Cream of tartar 3 oz., ginger 1 oz., white sugar 1lb. 8 oz., lemon juice 1 oz., water 1 gall. and a half, yeast 1 oz.; bottle, and tie the corks down.

MALT LIQUORS.

Sugar 6lb. is esteemed equal in strength, and coriander seed 1lb. in intoxicating power, to a bushel of malt: the sugar employed is burnt to colour the beer instead of brown malt, and it has been proposed to employ roasted coffee for this purpose.

The desire of evading the duty on malt has occasioned the discovery of its being necessary to malt only 1-3rd of the corn, as this portion will convert the other into its own nature during the process.

Capsicum and grains of paradise are used to give a pungent taste to weak beer, but, to avoid detection, concentrated tinctures are mostly used; and ginger, coriander seed, and orange peel are used to flavour it: besides these opium, cocculus Indicus, nux vomica, tobacco, and extract of poppies, are used to increase the intoxicating quality. Quassia is employed instead of hops as a bitter, but as this does not precipitate the mucilage, the beer soon grows muddy unless kept very cool.

Mild or new beer is made to taste like stale by adding a little oil of vitriol, or some alum; and, on the other hand, stale or sourish beer is made to resemble mild by neutralising the acid by oyster-shells or chalk.

When strong beer is reduced by adding small beer, publicans usually add melasses to enable it to form a head, and extract of gentian to keep up the flavour.

ALE, *Barley wine, Ala, Cerevisia alba.* Pale malt 14 quarters, mashed at three times with 28, 18 and 18 barr. of water, boiled with hops 112lb., set with 36lb. of yeast, cleansed with 4lb. of salt; produced 34 barr. or 1 gall. 1 pint of ale from each gall. of malt. Burton ale yields about 8.88, Edinburgh 6.20, Dorchester 5.56 of spirit in the 100.

DRAUGHT PORTER. Pale malt 7 quarters, amber malt 6 quart., brown malt 3 quart., mashed at twice with 56 and 48 barr.

of water, boiled with Kentish hops 113lb., set with 80lb. of yeast, salt 4lb., and flour $\frac{1}{2}$ lb.; produced 56 barrels of porter, or $3\frac{1}{2}$ gall. porter from each gall. of malt. A third mashing of the same grains produced 20 barr. of table beer. London porter yields only about 4.2 of spirit from 100 meas.

BOTTLING PORTER. Pale malt 4 quarters, amber malt 3 quart., brown malt 3 quart., mashed at three times with 25, 12, and 12 barr. of water, boiled with ordinary Kentish hops 100lb., set with yeast 52lb., and salt 2lb.; produced 34 barrels, or $1\frac{1}{2}$ gall. of porter from each gall. of malt. Brown stout yields 6.8 of spirit from 100 meas.

DEVONSHIRE WHITE ALE. Pale ale wort 25 gall., hops 2 handfuls, yeast 3lb., grouts 6 or 8lb. When the fermentation is at its height, bottle in strong stone half pints, well corked and wired: effervesces when opened.

TABLE ALE. Very pale malt 12 quarters, mashed at three times with 46, 32 and 32 barrels of water, boiled with hops 62lb., set with 114lb. of yeast, cleansed by the yeast head being beat in, and let to work out; produced 100 barr. or 4 gall. ale from each gall. of malt.

TWOPENNY. Malt 1 bushel and a half, hops 1lb., liquorice root 1lb. 8 oz., treacle 5lb., Spanish liquorice 2 oz., capsicum 3ij; frequently drank the week after it is brewed: used in cold weather as a stimulant. Produce 36 gall., that is, three times the malt.

TABLE BEER, *Cerevisia.* Malt 8 bush., hops 8lb., sugar 8lb. made into colour, Spanish liquorice 8 oz., treacle 10lb. Produce 10 barrels, that is, five times the malt.

MADEIRA. Pale malt ground 4 bushels, boiling water 44 gall., infuse, strain off this wort while warm, take 24 gall. sugar candy 14lb.; when dissolved, add yeast 2lb.; ferment, keep scumming off the yeast; when the fermentation is nearly finished, add raisin wine 2 gall. and a half, brandy, Port wine, of each 2 gall.; bung it down for six or nine months. A second infusion of the wort may be brewed for beer.

SHERRY. Loaf sugar 32lb., sugar candy 10lb., water 16 gall., boil, add pale ale wort (as for Madeira) 6 gall., yeast 1lb.: on the third day add raisins stoned 10lb., and in another two or three days brandy 1 gall.; bung it down for four months, draw it off into another cask, add brandy 1 gall., and in three months bottle it.—Imitations of foreign wines, but far inferior to our own fruit wines.

MUM. Brewed from wheat malt.

WHITE SPEUCE BEER. To water 10 gall. put sugar 6lb.,

essence of spruce 4 oz. (a 3s. pot), add yeast, work as in making ginger beer, and bottle immediately in half pints.

BROWN SPRUCE BEER. As the white, using treacle in lieu of sugar.

TREACLE BEER. Hops 1lb. 4 oz., boil in water 36 gall. for an hour, add treacle 14lb., a little yeast, and ferment.

2. Hops 1 oz., and half, water 1 gall., treacle 1lb.

MALMSEY, Parsnep wine. Cut the roots into thin slices, boil them in no more water than will just cover them, press out the liquor and ferment.

ELECAMPANE WINE, Vin d'aulnée. Is prepared in France, and considered as stomachic.

PULQUE. From the sap of the leaves of *Agave Americana*: drank in South America.

BIRCH WINE. From the sap of the birch tree.

TODDY. From various species of palms, by cutting off the end of the flowering bud, collecting the sap, and letting it stand a few hours to ferment.

X. GASES AND FUMIGATIONS.

GASES.

HYDROGEN GAS, Gas hydrogenium. Zinc turnings $\bar{3}$ ss, common water 4 pints put into a retort: add oil of vitriol 3vj, and place the retort so that the gas may pass into inverted bottles filled with water, or into a gas-holder. Used in artificial fireworks, and to find the quantity of oxygen contained in gases.

SULPHURETTED HYDROGEN GAS, Hepatic gas, Gas hydrogenium sulphuratum. Lime 2 oz., sulphur 3 oz., mix, melt, pour out, and when cold put into a retort, add gradually oil of vitriol, and receive the gas in inverted bottles. Extremely fetid, poisonous, yet exhibited in obstinate cough after peripneumonia, requires great caution.

OXYGEN GAS, Pure air, Dephlogisticated air, Vital air, Gas oxygenium. Heat black oxide of manganese 1lb. in a retort or iron bottle, and collect the gas it yields, rejecting the first bubbles: produce about 3400 cubic inches, or more than 14 gallons. Stimulant when breathed, in doses of 6 to 30 cubic inches.

CARBONIC ACID GAS, Fixed air, Gas acidum carbonicum.

Marble in coarse powder $\frac{1}{2}$ oz., add muriatic acid, diluted with 1-3rd its weight of water, by degrees, until the marble is dissolved, collecting the gas: produce about 1 gallon. In small doses sedative; externally used in cancer and fetid ulcers.

FUMIGATIONS.

NITROUS FUMIGATION, *Fumigatio nitrosa*. Sal. nitri ziv , ol. vitrioli ij : in a saucer placed upon hot sand in the middle of the room.

DISINFECTING FUMIGATION, *Fumigatio oxymuriatica*. Sal. comm. 3 oz., black manganese 1 oz., oil of vitriol 1 oz., water 2 oz.: in a cup carried through the apartments, or they may be shut up for an hour or two, and then opened.

Powders for making effervescent mixtures, pastilles for burning, and the like, act by the gas they produce; but they are referred to the forms in which the materials are sold.

XI. LIQUID COMPOUNDS.

NOT OILY.

DISTILLED WATERS.

SOME of these are intended for medical purposes, mostly as vehicles, others for perfume. In respect to medicines, no great care is usually judged necessary, the herb just as collected, without any separation of decayed parts, or accidental mixture of dirt or other substance, is added to the water, distilled in a short-necked, wide still as quickly as possible, and spirit of wine zij , or even more, added to each pint. Many do not even take this trouble, but rub a drop or two of the oil, with a little magnesia, and add it to common water, or dilute the oil with ten times as much spirit of wine, and add, when it is wanted, a few drops of this essence to the water or other vehicle.

But for perfumes, as rose water, elder-flower water, &c., more care is requisite, as the buyers must be pleased with their smell and appearance; hence the herb, &c., must be carefully picked, and the waters as carefully distilled in a high narrow-necked still, in order that no part of the infusion may be thrown over with the distilled water, as this would render them liable to become mothy in a short time; if a superior article is required, the waters must be redistilled by a gentle heat.

Waters which have acquired a burnt smell in the stilling lose it by freezing.

These waters must also be kept in a cool place, covered only with paper pricked with pin holes, for four months, to get rid of the herbaceous smell of fresh distilled waters. Distilled waters may be prevented from turning sour by adding a little calcined magnesia to them; and those which have begun to be spoiled may be recovered by adding to each pint a grain of each, borax and alum. A drop of muriate of gold added to these waters shows whether they contain any oil, by forming in that case a fine metallic film on their surface.

FOR MEDICAL USE.

AQUA ALEXITERIA SIMPLEX. Green mint lb. ss, tops of sea wormwood, green angelica leaves, ana lb. j; draw three gallons: this is a pleasant compound water.

DILL WATER, *Aq. anethi.* Seeds 2lb. to the gallon; carminative.

ANISESEED-WATER, *Aq. anisi.* Collected in the distillation of the oil; carminative.

ORANGE PEEL WATER, *Aq. cortic. aurant. simplex.* Seville orange peel 3iij to the gallon.

2. Peel 2lb. to the gallon; an agreeable vehicle.

CARAWAY WATER, *Aq. carui.* Seeds 1lb. to the gallon; carminative.

AQ. CASCARILLÆ. Bark 1lb., water 6 pints; soak for some days, and distil 2 pints of a milky water. It may be prepared while making the extract. Tonic.

CASSIA WATER, *Aq. cassiæ, Aq. lauri cassiæ.* 1lb. to the gallon.

2. Cassia (parva) 8lb.; draw 12 gallons.

3. Cassia buds 1lb., cassia lignea 2lb.; draw 8 gallons.

4. Cassia (parva) 6lb., spirit of wine 2 gall., water q. s., draw 4 gall. of spiritus cinnamomi, and 10 gall. of aq. cinnam. Sold for cinnamon water.

BLACK CHERRY WATER, *Aq. cerasorum nigrorum.* The fruit with the stones bruised; lb. xij to the gallon.

2. Cake left after squeezing black cherries for their juice 3lb., water 2 gallons; let them stand for a day, and distil 4 pints; antispasmodic, contains prussic acid; when drawn very strong, lb. vj of cherry-stones to the pint, is deleterious; expunged from the Pharmacopœia in 1745.

BITTER ALMOND WATER, *Aq. amygdalarum amararum.*
Almond (bitter) cake bruised 4lb., draw five gallons.

Aq. amygdalarum amararum concentrata, P. Bor. Amygd. amar. cont. lb. ij., S. V. R. ʒij, aq. lb. vj; distil in glass. lb. ij.

CINNAMON WATER, *Eau de canelle, Aq. cinnamomi tenuis, A. cinnamomi, A. lauri cinnamomi.* lb. j to the gallon.

2. Cinnamon lb. j, or oil ℥v, to the gallon. P. L. 1824.

3. Bruised cinnamon lb. j, water 2 gall., simmer in a still for half an hour, put what comes over into the still again; when cold strain through flannel. Cassia must be distilled, as its infusion is yellow.

4. Water 2 pints, cinnamon 2 oz.; distil in a water bath: stomachic, tonic, and covers the disagreeable taste of some medicines. Cassia water is sold for it.

AQ. CORTICIS PERUVIANÆ. Bark 1lb., water 6 pints; soak for some days, and distil 3 pints of a milky water. It may be prepared while making the extract. Tonic.

CUMIN WATER, *Aq. cumini.* From the seeds; carminative.

AQ. CYMBALARIE. From the herb; used in Italy as the vehicle for exhibiting arsenic as a poison, but has no power of its own.

SPEARWORT WATER, *Aq. flammulae.* From the herb; acrid, vomits instantly, and, in cases of poison being taken, is preferable to any medicine yet known, as it does not excite any contraction of the upper part of the stomach, and thus defeat its own intention, as white vitriol sometimes does.

SWEET FENNEL WATER, *Aq. fœniculi.* Seeds 1lb. to the gallon; a weak carminative.

ARSE-SMART WATER, *Aq. hydropiperis.* From the herb; acrid, lb. j—lb. jss, drank in a day, esteemed very effectual in nephritic cases.

HYSSOP WATER, *Aq. hyssopi.* From the herb; pectoral, stomachic.

JUNIPER WATER, *Aq. juniperi baccarum.* Stimulant.

LAUREL WATER, *Aq. lauro-cerasi.* From the leaves, lb. viij to the gall.; contains prussic acid, is stronger than black-cherry water; has been used for poisoning, and therefore labours under an ill name, although doubtless one of the most efficacious of this sort of medicines, and of great use in consumption.

2. P. Boruss. Fol. lauri cerasi lb. j; S. V. R. ʒij; aquæ lb. vj, distil in glass. lb. iij.

LEMON-PREL WATER, *Aq. e corticibus citri*, *A. citri medica*. Fresh peel 2lb. to the gallon.

BAULM WATER, *Aq. melissæ*. From the herb, cephalic, cordial.

PEPPERMINT WATER, *Aq. menthæ piperitidis simplex*, *A. menthæ piperitæ*. Green herb lb. viij to the gallon; P. L. before 1745.

2. Dried herb lb. jss, or green lb. iij, to the gallon; P. L. since 1745. P. D.

3. Herb in flower lb. iij to the gallon, P. E.

4. Green herb lb. iij, or dried lb. jss, or oil ʒiij to the gallon; P. L. 1824.

5. Oil of peppermint 1 oz., water q. s.; draw 10 gallons.

6. Oil 2 oz.; draw 9 gallons.

7. Oil 1lb.; draw 30 gallons; stimulant, carminative; and covers disagreeable flavours.

MINT WATER, *Aq. menthæ*, *A. menthæ vulgaris simplex*, *A. menthæ sativæ*, *A. menthæ viridis*. Green herb lb. viij to the gallon; P. L. before 1745.

2. Dried herb lb. jss to the gallon; P. L. since 1745. P. D.

3. Dried herb lb. jss, or green lb. iij, or oil ʒiij to the gallon. P. L. 1824.

4. Oil of spearmint 1 oz., draw 10 gallons; antispasmodic, allays vomiting.

NUTMEG WATER, *Aqua nucis moschata*. Nutmegs 1 oz., water q. s.; distil a gallon; used in incipient phthisis.

WHITE POPPY WATER, *Aq. papaveris albi*. From the flowers; narcotic, much used in some parts of Lincolnshire, every cottager growing the plant for his own consumption in making this water.

ALLSPICE WATER, *Aq. piperis Jamaicensis*, *A. pimento*, *A. pimentæ*, *A. myrti pimentæ*. Half a lb. to a gallon: stimulant; used in hospitals as a cheap spicy vehicle.

PIMPERNELL WATER, *Aq. pimpinellæ*. From the roots; acrid, blue.

PENNYROYAL WATER, *Aq. pulegii*, *A. pulegii simplex*, *A. menthæ pulegii*. Green herb lb. viij to the gallon; P. L. before 1745.

2. Dry herb lb. jss to the gallon; P. L. since 1745. P. D.

3. Fresh herb lb. iij to the gallon; P. E.

4. Dry herb lb. jss, or green lb. iij, or oil ʒiij to the gallon. P. L. 1824.

5. Oil of pennyroyal 1 oz.; draw 12 gallons.

6. Oil of pennyroyal 1lb.; draw 30 gallons. Emmenagogue.

RUE WATER, *Aq. Rutæ*. From the herb; stimulant, emmenagogue.

AQ. CASTOREI. Russian castor $\bar{3}j$, water q. s.; distil lb. ij.

AQ. LACTIS ALEXITERIA. Leaves of the meadow-sweet, *carduus benedictus*, goats' rue, ana M. vj; of mint, wormwood, ana M. v; of rue M. iij; of angelica M. ij; milk gall. iij: distil in a water bath to dryness: diaphoretic.

AQ. OMNIUM FLORUM. From cows' dung, collected in May and distilled in a balneum; used in phthisis.

FOR PERFUMERY AND COSMETICS.

Eau d'ange distillée. Benj. 2 oz., stor. 1 oz., cinnam. 1 dr., cloves 2 d., calam. a stick, coriander seeds whole a pinch, water 2 pints.

Eau d'ange distillée et musquée. Water 2 pints, benjamin 4 oz., storax 2 oz., cinnam. half an ounce, cloves $\bar{3}j$, calamus a stick, musk bags $\bar{3}j$: distil; save the residuum.

Carline thistle water, *Aq. carlinæ*. From the root.

Staranise water, *Aq. anisi stellati*. Very fragrant.

Orange-flower water, *Eau de fleurs d'oranges*, *Aq. naphæ*, *A. aurantium florum*. lb. iij to lb. iv of water; from Italy.—2. lb. iij to lb. vj of water.—3. Water 4 pints, orange flowers 2lb.; distil in B. M.; fine scented: if wanted only to purify tobacco for snuffs it may be drawn much lower.

Bean-flower water, *Aq. fabarum florum*. Fragrant, cooling to the face and hands.

Strawberry water, *Aq. fragariæ*. Fruit bruised 20lb., water q. s.; draw 2 gall. and a half: very fragrant.

Simple lavender water, *Aq. lavandulæ florum*. Collected in the distillation of the oil; mostly used to scent soaps.

Aqua ledi palustris. Very fragrant; sold for rose water.

Lily of the valley water, *Aq. lili convallium*. Fragrant; used as a perfume to scent soaps.

Eau de millefleurs. Eau d'ange 2 pints, musk 12 or 20 gr., or musk bags $\bar{3}j$: if not strong enough, add a thread of essence of ambergris.

Eau d'œillet. Water two pints, cloves 2 oz.; distil in a water bath.

Myrtle-flower water, *Aq. myrti florum*. Fresh flowers lb. iij; draw a gall.; very fragrant; used as a perfume.

Rose water, Aq. rosarum Damascenarum, A. rosæ, A. rosæ centifoliæ. Petals of the flowers 6lb. to the gall.—2. Petals 8lb. to the gall.—3. Petals 10 bushels; draw 14 galls.—4. Salted roses 60lb., yellow sanders 8 oz.; draw 16 galls.—5. Attar of roses 1 oz., spirit of wine cong. j, aq. distil q. s.; distil 40 gallons.—6. Water 4 pints, roses 3lb.; distil in B. M. When much rose water is wanted to purify tobacco for snuff, it may be drawn weaker.—Yellow sandal wood water, rose root water, aqua ledi palustris, are sold for it.

Rose root water, Aq. rhodiæ radicis. From rose root; sold for rose water.

Rosemary water, Aqua rorismarini. From the tops; fragrant.

Raspberry water, Aqua rubi Idæi. From the fruit; fragrant.

Elder-flower water, Aq. sambuci florum. From the fresh flowers.—2. Salted flowers 50lb.; draw 20 gallons: agreeably aromatic, cooling to the face and hands.

Yellow sanders water, Aq. santali citrini. From yellow sanders; sold for rose water.

Water of camels' hay, Aq. schænanthi. From the herb; fragrant.

Germander water, Aq. scordii. From the herb; fragrant, although no oil comes over with it.

Eau de tain. Water 2 pints, lemon thyme 2 handf.; distil in a water bath. Other sweet-scented herbs may be distilled the same.

Lime-flower water, Aq. tiliæ. From the flowers when fresh gathered; fragrant.

Meadow-sweet water, Aq. ulmariaæ. From the flowers; has a fine flavour, but the flowers must be infused in warm water as soon as gathered.

Vanilla water, Aq. vanillarum. From the pods: fragrant.

USED IN COOKERY.

Marjorum water, Aq. marjoranæ. Fresh herb 8lb. to the gallon; strong-scented.

USED IN THE ARTS.

Eau distillée d'anserine, Aq. potentillaæ. From the herb; used in the dressing of French gauzes, and, although it has neither taste nor smell, common water will not supply its place.

INFUSIONS.

The infusion of most vegetable substances may be kept unchanged, in a cool place, for a long time, in long narrow-necked vessels, if a little sweet oil is poured upon it; the oil may be taken off by a syringe, or a little tow.

FOR MEDICAL USE.

TAR WATER, *Aq. picis liquidæ*. Tar 3 pints, boiling water 1 gallon; strain: stimulant, one or two pints in a day.

CAMOMILE TEA, *Infusum anthemidis*. Flor. chamæm. ʒss to a pint; emetic while warm, stomachic when cold.

INF. ARMORACIÆ COMPOSITUM. Rad. raph. rust., sem. sinapis, of each ʒj to a pint, add spir. armor. comp. ʒj: diuretic to ʒxij, in die.

INF. AURANTII COMPOSITUM. Cort. aurant. sic. ʒij, cort. limon. rec. ʒj, caryoph. arom. ʒss to half a pint: stomachic ʒij omni bihorio.

INF. CALUMBÆ. Rad. colombo ʒij, to half a pint; tonic.

INF. BERBERIS. Berberis cort. contus. ʒss, aquæ ferventis Oss, macera per horas duas; dose ʒi—ʒij, with subcarb. of soda or potash, and tinct. of calumba; in jaundice, &c.

INF. CALAMI. Calami rad. contus. ʒss; aq. ferventis Oss, with a cordial tincture, as a stomachic.

INF. CONII MACULATI. Dried leaves of conium, coriander seeds, bruised, ana ʒij; boiling water Oss; infuse for two hours. Combined with liq. ammon. acet., tinc. hyosciami, and syrup. papaveris; in pulmonary diseases.

INF. GUAIACI COMPOSITUS. Guaiaci ligni ras. lb. ss; glycyrrh. rad. cont. ʒj; sassafras corticis concis. ʒss; coriand. sem. cont. Ovj; infunde per dies tres, dein cola: dosis ʒijj—ʒvj, bis die: in scrofula, rheumatism, cutaneous eruptions, &c.

INF. CARYOPHYLLOREM. ʒj to half a pint: stimulant.

INF. CASCARILLÆ. Cort. ʒj to a pint: tonic.

INF. CATECHU, *I. c. compositum*. Catechu ʒijss, cinnam. ʒss, to half a pint.

INF. OF BARK, *Inf. cinchonæ*. Cort. Peruv. ʒss to half a pint: tonic.

INF. CUSPARIÆ. Cort. angusturæ ʒij to half a pint: tonic.

INF. DIGITALIS. Fol. dig. sicc. ʒj to half a pint; and add

ʒss of spir. cinnam. : diuretic ʒj every eight or ten hours, till it has a sensible effect upon the body.

INF. GENTIANÆ COMPOSITUM. Rad. gentianæ, cort. aurant. sicc. ana ʒj, cort. limon. rec. ʒij, aq. ferv. ʒxij.

LINSEED TEA, *Inf. lini, I. l. compositum.* Sem. lini ʒj, rad. glycyrrh. ʒiv, aq. ferv. lb. ij.

INF. JUNIPERI COMPOSITUS. Junip. bac. contus. ʒij, aq. ferventis Oj, macera per horas binas, cola et adde spirit. juniperi comp. ʒj, potassæ supertart. ʒjss. (*Sprague.*)

INF. MARRUBII. Marrub. herb. exsic. ʒss, aq. distil. ferven. Oss; ʒss—ʒij, ter in die.

INF. MENTHÆ. Fol. menth. sicc. ʒij, aq. ferv. q. s. to strain ʒvj; when cold, add sach. albi ʒij, oil. menth. sat. gtt. iij dissolved in tinct. cardam. comp ʒss; diaphoretic.

INF. MENTHÆ COMPOSITUS. Menth. virid. exsic. et cont. ʒjss, rosæ gall. petal. exsic. ʒjss, aq. ferventis Oj, acid. sulph. dil. ʒij, sacch. purif. ʒjss. Pour the boiling water with half the acid on the mint and rose leaves; then strain the liquor and add the other half and the sugar. Powerfully anti-emetic. (*Sprague.*)

INF. MENYANTHIDIS. Fol. menyanth. ʒss, zingib. rad. concis. ʒij, aq. fervent. Oss, macera horas per binas. In doses of ʒj—ʒij, with spirit. æther. nit. ʒj—ʒij: in rheumatism, gout, and cutaneous affections.

INF. QUASSIÆ. ʒj to half a pint: tonic.

INF. OF RHUBARB, *Inf. rhei.* ʒj to half a pint: ʒiv, with neutral salts, as a purgative, ʒss with tinct. cinnam. as a stomachic.

INF. RHEI BORAXATUM. (*P. Pol.*) Rhub., 6; borax, 1; cinnam. water, 8; boiling water, 48.

INF. RHEI ALKALINUM. (*P. Aust.*) Rhub., 3; carb. potass., 1; boiling water, 48.

INF. ROSÆ, *I. r. compositum, Tinctura rosarum.* Rosæ rubræ ʒiv, aq. ferv. lb. ijss, spir. vitrioli ʒiij, sacch. alb. ʒjss: cooling; also as a vehicle for Epsom salt, whose taste it covers very well.

INF. SENNÆ, *I. s. compositum.* Sennæ ʒjss, rad. zingib. ʒj, aq. ferv. lb. j; purgative ʒij to iv; but generally given as a vehicle.

INF. SIMAROURÆ. ʒss to half a pint; bitter, tonic.

INF. TABACI. ʒj to a pint; as an antispasmodic clyster.

INF. TAMARINDI CUM SENNA. Tamar. ʒj, sennæ ʒj, sem. coriand. ʒss, sacch. rubr. ʒss, aq. ferv. ʒviiij; laxative ʒij to ʒiv.

INF. VALERIANÆ. ʒij to aq. ʒvij; antispasmodic, to ʒij.

INF. RHATANIÆ. Rhat. rad. contus. ʒij, aq. ferv. O ss, macera per horas sex; with aromatics and tonics.

CATHARTIC INFUSIONS. Inf. sennæ ʒj, tinct. sennæ, tinct. jalapæ, ana ʒj, potass. tartr. ʒj, syr. sennæ ʒj.

2. Inf. sennæ ʒjss, sal Epsom ʒvj, tinct. jalap. ʒj, tinct. opii m. x, tinct. castor. ʒj: both for one dose.

3. Inf. sennæ ʒij, sodæ tartr. ʒvj, aq. cinnam. ʒss, for two doses.

4. Fol. sennæ ʒijj, sal. Glaub. ʒj, aq. ferv. lb. j; strain, for a clyster.

DIURETIC INFUSIONS. Bacc. junip. cont. ʒij, sem. anisi ʒij, aq. ferv. lb. j: to strained liquor ʒxij, add sp. junip. comp. ʒij, tinct. scillæ ʒj, sal nitre ʒij. Dose a tea-cupful frequently.

2. Inf. digit. ʒiv, tinct. digit. ʒss, potass. acetat. ʒj, tinct. opii m. v. Dose coch. maj. j, twice or thrice a day.

3. Cacum. spartii ʒj, aq. lb. j, boil to one-half: strain: diuretic, ʒj, with spr. æth. nitr. m. x, every other hour.

IMPERIAL DRINK, *Potus imperialis.* Cream of tartar ʒss, white sugar ʒiiij, orange peel ʒijj, boiling water ʒ pints, for common drink in fevers.

INF. SERPENTARIÆ COMP. Serpentariæ rad. cont., contrajervæ rad. cont. ana ʒij, aq. ferventis O ss, macera per horas binas, cola et adde tinct. serpentariæ, ʒj. Doses ʒss—ʒj, with liq. ammon. acet., in diseases of debility.

INF. SPIGELIÆ COMPOSITUS. Spigel. rad. concis. ʒss, sennæ foliorum ʒij, aurantii cort., santonici. semin. cont., fæniculi sem. contus. ana ʒj, aq. ferventis ʒxij, macera per horas binas. A wine-glass full every morning, fasting, to expel lumbrici. (*Sprague*).

INF. UVÆ URSI. Uvæ ursi fol. ʒij, aq. ferventis O ss. Macera per horas tres. With the alkaline carbonates, hyosciamus, or opium, in affections of the urinary organs; and with dilute sulphuric acid and digitalis in affections of the respiratory organs.

INF. VALERIANÆ FORTIUS. Valerian. rad. cont. ʒss, aq. ferventis O ss, macera per horas duas, cola et adde spirit. lavand. comp., syrup. aurantii, ana ʒss:—ʒij ter die. In hysteria and other nervous affections.

ASTRINGENT INFUSIONS. Cort. querc. ʒss, aq. lb. ss; to the strained liquor ʒjss, add pulv. gallarum gr. x, tinct. catechu, tinct. cardam. comp., syr. cort. aurant., ana ʒss, for one dose.

2. Inf. cuspariæ ʒj, tinct. catechu ʒj, pulv. ipec. gr. iij, opii gr. ss, for one dose.

STRENGTHENING INFUSIONS. Inf. gent. comp. ℥j, aq. kali ℥ss, tinct. cascar. ℥j, for one dose.

2. Inf. cascar. ℥jss, tinct. ejusd., tinct. zz, ana ℥j; for a dose, in loss of appetite from drinking.

STIMULANT INFUSION. Sem. sinap. nigr. cont., rad. raphan. sylv. ana ℥ss, aq. ferv. lb. j; strain when cold, and add spir. amm. arom. ℥j, spir. pimentæ ℥ss; dose coch. maj. ij, three a day, praised by Dr. Paris in palsy.

FOTUS CICUTÆ. Fol. cicutæ rec. lb. ss (or sicc. ℥ij), aquæ lb. ij.

DECOCTIONS.

DECOCTUM GALLÆ. Gallarum contus. ℥ss, aq. distil. O ijss, decoque ad oct. ij et cola; dein adde tinc. Gallæ ℥j. As a fomentation, enema or injection, for prolapsus ani, hæmorrhoids, and in leucorrhæa.

DEC. SANTONICI. Santon. semin. cont. ℥ij, aq. distil. ℥xx, coque leni igne ad O j, dein cola. As an injection against ascarides.

DEC. SPARTII CACUMNIUM. Spartii cacum. concis. ℥j, aq. distil. O j, decoque ad octarium dimidium, et cola. Diuretic; combined with diuretic salts and the æthers in dropsies.

DEC. TARAXACI. Taraxaci rad. recent. concis. ℥ij, aq. distil. O ij, coque ad O j, et cola; with the alkaline carbonates, extract of taraxacum, &c., in glandular obstructions.

DEC. TORMENTILLÆ. Tormentillæ radicis contus. ℥j, aq. distil. O jss, coque ad octarium, et cola. In colliquative diarrhœa.

DEC. ALTHÆÆ OFFICINALIS. Rad. althææ sicc. ℥iv, uvar. pass. ℥ij, aq. lb. vij.

DEC. CHAMÆMELI COMPOSITUM. Flor. cham. sicc. ℥ss, sem. fœnic. ℥ij, aq. lb. j.

DEC. BALLOTÆ LANATÆ. Fol. et Flor. ballot. lanatæ ℥ij, aq. lb. ij, coque ad lb. j; dose ℥ij 4tis horis. In dropsies, as a diuretic, when there is no active organic disease.

DEC. OF BARK, *Dec. cinchonæ,* ℥j to a pint; boil for ten minutes: tonic, ℥j to ℥iv, in die.

MUCILAGO SEMINUM CYDONIARUM, *Dec. cydoniæ.* Sem. cyd. ℥ij, aq. lb. ij.

DEC. DAPHNES MEZEREI. Cort. rad. mezerei ℥ij, rad. glycyrrh. ℥ss, aq. lb. ij; diaphoretic, ℥j to iv, in die, by small doses.

DEC. DIGITALIS. Fol. digit. sicc. ℥j, aq. q. s. to strain ℥vij.

DEC. DULCAMARÆ. Caul ℥j to a pint and a half, and boil to a pint.

DEC. GEOFFRÆE INERMIS. Cort. $\bar{3}j$, aq. lb. ij, coque ad lb. j.

DEC. GUAIACI COMPOSITUM. Lign. guaiaci $\bar{3}ij$, uvar. pass. $\bar{3}ij$, rad. sassfr., rad. glycyrrh. ana $\bar{3}j$, aq. lb. x. coque ad dimidium; alterative, lb. ss to lb. j, in die.

DEC. LICHENIS. $\bar{3}j$ to aquæ lb. jss; boil to lb. j; nutritive.

DEC. PRO ENEMATE, *D. malvæ compositum.* Malvæ sicc. $\bar{3}j$, fl. chamæm. $\bar{3}ss$, aq. lb. j.

POPPY LIQUOR, *Dec. papaveris.* Heads $\bar{3}j$ to a pint; emollient, as a fomentation.

DEC. QUERCUS. Cort. quercus $\bar{3}j$, aq. lb. ij, coque ad lb. j; an astringent injection or lotion in gleans and the whites.

DEC SARSASPARILLÆ. $\bar{3}j$ to a pint; boil to one half.

LISBON DIET DRINK, *Dec. sarsaparillæ compositum.* Rad. sars. $\bar{3}vj$, cort. rad. sassafra, cort. guaiaci, rad. glycyrrh. ana $\bar{3}j$, cort. rad. mezerei $\bar{3}ij$, water 10 pints, boil to 5; are both alterative, to lb. jss in die.

DEC. SENEGÆ. Rad. $\bar{3}j$ to aq. lb. ij; boil to lb. j; acrid, in rheumatism.

DEC. ULMI. Cort. $\bar{3}j$ to aq. lb. j; boil to lb. ss; in herpetic eruptions, to lb. jss in die.

DEC. HELLEBORRI, *Dec. veratri.* Rad. $\bar{3}j$ to lb. ij; boil to lb. j, when cold, add spir. vini $\bar{3}ij$.

DIAPHORETIC DECOCTION. Dec. cort. Per. $3x$, liq. amm. acet., tinct. cinch. $\bar{3}ij$, conf. aromat. $\bar{3}ss$, for a dose every three hours.

COOLING DECOCTION. Dec hord. lb. j, acid. muriat. $\bar{3}j$, syr. simpl. $\bar{3}ij$; for common drink in putrid fevers.

STRENGTHENING DECOCTIONS. Cort. Peruv. cont. $\bar{3}ss$, serpent. $\bar{3}ij$, aq. lb. j; boil to a half, and strain; then add spir. cinnam. $\bar{3}jss$, acidi sulph. diluti $\bar{3}jss$; dose $\bar{3}ij$ every six hours.

2. Dec. cort. Peruv. $\bar{3}ijss$, inf. gent. comp. $\bar{3}j$, tinct. cascar., aq. kali, ana $\bar{3}ij$; dose coch. maj. ij, frequently.

3. Dec. cort. Peruv. $\bar{3}vj$, tinct. ejusd. $\bar{3}ss$, conf. aromat. $\bar{3}j$, spir. amm. arom. $\bar{3}j$; dose coch. maj. ij, daily.

HARTSHORN DRINK, *Mistura cornu usti.* Cornu usti $\bar{3}ij$, gum Arab. $\bar{3}j$, aquæ lb. iij; boil to lb. ij; strain; demulcent, merely mucilaginous.

FOR KITCHEN USE.

Plain barley water, *Aq. hordeata, Dec. hordei.* Pearl barley 2 oz., water $4\frac{1}{2}$ pints, boil to 2 pints and strain.

Barley water, Ptisana communis, Dec. pectorale, D. hordei compositum. Plain barley water 2 pints, figs 2 oz., liquorice $\frac{1}{2}$ oz., raisins stoned 2 oz., water 1 pint, boil to 2, and strain; demulcent, ad libitum.

Raisin drink, Potus uvarum siccarum. Stoned raisins 4 oz., water 3 pints; boil, strain 3 pints.

Rice drink, Dec. oryzæ. Rice 2 oz., water 2 pints, boil to strain a pint; a little lemon peel may be added.

Tisane de ris, Eau de ris. Rice half an oz., water sufficient to strain 3 pints, boil.

FOR USE IN THE ARTS.

Infusion of Brazil wood.—Inf. of logwood.—Inf. of nut galls. Are all three prepared by pouring boiling water on the chips of the woods, or the bruised galls.

Inf. of turmeric.—Inf. of dried red cabbage.—Inf. of violet blue dahlia petals.—Inf. of red roses.—Inf. of periwinkle petals.—Inf. of blue flag flowers.—Inf. of mallow flowers. Are prepared in the same manner; but as the infusion of red cabbage, nutgalls, and Brazil wood are often in use, 1 oz. meas. $\frac{1}{2}$ of spirit of wine is added to a pint of the first, and 3 oz. measures to the two last, to preserve them.

Inf. of litmus. Made from the cakes of litmus.

Red inf. of turmeric.—Red inf. of blue dahlia petals.

Red inf. of litmus.—Reddish violet inf. of litmus. Are made by adding weak acetic acid to the ordinary infusions until the desired colour is obtained. All of these infusions are used to discover slight traces of acids, or alkalies, in mineral waters, or aqueous liquids, or to ascertain when saline mixtures are neutralized.

MUCILAGES AND JELLIES.

FOR MEDICAL USE.

MUCILAGO ACACIÆ, *M. gummi Arabici.* $\bar{\text{z}}$ iv to half a pint; demulcent.

BOILED STARCH, *Muc. amyli.* $\bar{\text{z}}$ ijj to a pint, boiled; as a restringent clyster; does not become stiff by adding calcined magnesia.

MUC. GUMMI TRAGACANTHÆ. $\bar{\text{z}}$ j to half a pint, soak for 24 hours, then rub, and press through a cloth; principally used to make lozenges.—2. Gum $\bar{\text{z}}$ j, water $\bar{\text{z}}$ iv.

JELLY OF ICELAND MOSS, *Gel. lichenis.* Iceland moss 4 oz., water q. s. to strain a pint and a half, add white sugar 4 oz. nutritive and tonic in phtthisis.

SALEP JELLY. Salep ground 2 oz., water 12 pints, add calcined magnesia 3 oz. to prevent it from growing mouldy.

FOR KITCHEN USE.

Biscuit jelly, *Gelatina panis.* White biscuit 4 oz., water 4 pints; boil to a half, strain, evaporate to a pint, add white sugar 1lb., red wine 4 oz., cinnamon water 1 oz.; in dysentery, and weakness of stomach.

Hartshorn jelly, *Gel. cornu cervi.* Hartshorn shavings 1 oz., water 4 pints, boil to 2, strain; warm again with orange juice 1 oz., white sugar 6 oz., sherry 5 oz.

2. Hartshorn shavings 8 oz., water 4 pints, boil, strain, add white wine and sugar ana 4 oz., or if a very clear jelly is required, syr. of vinegar 6 oz., clarify with the white of 2 eggs, strain, putting cinnamon or lemon-peel on the strainer to flavour the jelly; nutritive.

Sago jelly. Soak sago in water for an hour, pour it off, and adding more, boil till the sago is transparent, then add wine and sugar, or clear broth.

Arrow root jelly. Arrow root 1 oz., stir in boiling water sufficient to form a thick jelly, which may be flavoured at pleasure.

Tapioca jelly. Soak it in water for a night, then boil it gently till quite clear, and add lemon-juice, lemon-peel, wine, sugar, and cinnamon, at pleasure.

Almond jelly, *Gel. amygdalarum.* Sweet almonds blanched 1 oz., white sugar 5vj, water 4 oz., rub into an emulsion, strain, and add melted hartshorn jelly 8 oz., orange-flower water 3j, essence of lemon gtt. iij.

Crème de riz. Rice 3 spoonsful, boil in water 2 pints to 1, strain, add sweet almonds No. 10, bitter almonds No. 5; make an emulsion, with sugar, a little cinnamon or orange-flower water, and drink it warm in the morning.

Isinglass jelly. Isinglass 2 oz., water 2 pints, boil to a pint, strain, and add milk 1 pint, white sugar candy 1 oz.; nutritive.

Portable soup, Glaze. Leg or shin of beef, break the bones, put it into a digester that will merely hold it, covered with cold water, boil it gently for eight or ten hours, strain, let it cool, take off the fat, pour into a shallow stewpan, add whole black pepper $\frac{1}{4}$ oz., boil away to about a quart, pour it into a smaller stewpan, and simmer gently till it is reduced to the thickness of a

syrup; then either pour it into small upright jelly-pots, with covers, and when cold, paste the joints over with paper; or pour it out upon flat dishes, to lie about $\frac{1}{4}$ inch deep, when set divide it in pieces and dry them. A shin of beef of 9lb. produced 9 oz. of portable soup, and $2\frac{1}{2}$ lb. of meat fit for potting.

USED IN THE ARTS.

Solution of Isinglass. Isinglass gr. x, water 3ij, boil and strain; used as a test for tannin: if for keeping, add spirit of wine 3jss.

Carpenters' glue. Cake glue 8 oz., water 2 pints; soak for a night, and boil to a proper consistence.

Flour paste, Colle de pâte. Wheat flour and water rubbed together smooth, and then boiled until dissolved, adding a little alum.

Hard paste. A little powdered rosin is added in the boiling; aloes is sometimes used to deter insects from eating it. A few drops of any essential oil, or a little camphire, prevents it from growing mouldy; in a covered jar, it may then be kept for a year; using a brush with plain water when dry.

Potatoe paste. Potatoes grated fine 1lb., water 2 pints and a half; boil, add powdered alum half an oz.

Chinese paste. Bullocks' blood 10lb., quicklime 1lb., beat together; it becomes a stiff jelly, in which state it is sold, and will keep in cool weather for three weeks; when used, it is beat down with water to a proper consistence.

Vernis de colle forte. Carpenters' glue and alum; used for varnishing furniture to render it less liable to take fire.

Mucilage of flea-wort seeds. Used to dress muslin.

French cement. Gum water, thickened with starch powder; used by the naturalists and French artificial flower makers; keeps for a long time; lemon-juice is sometimes added.

Mouth glue, Indian glue, Colle à bouche. Best cake glue, dissolve in a little water, add brown sugar a small quantity, and some essence of lemons, pour it into greased moulds, dry it. When used, it is wetted with the tongue, and rubbed on the paper to be joined.

Liquor glue. Melted glue, vinegar, of each 1 pint, spirit of wine 4 oz.; used as a cement.

Solution of starch. Starch 5 gr., water 1 oz.; used as a test for iodine.

Sol. of albumen. White of eggs strained 1 oz., water 10 oz.—
2. Dried white of eggs 1 oz., water 20 oz.; both are used as a test for tannin.

EMULSIONS AND LOHOCHS.

A new laid egg weighs about 3ijss, the white 3j 3vj; yelk 3x; shell 3iv; an oz. of blanched almonds are usually 26 in number; mucilage of gum Arabic 3j, made of equal parts, gum and water, will form 3ij of any oil into an emulsion with water 3j.

ALMOND MILK, *Emulsio amygdalina*. Amygd. dulc. 3j, amygd. amar. No. 3, sacch. albi lb. ij, aq. dist. lb. ij, aq. fl. aurant. 3ij; the bitter almonds improve the flavour.

MISTURA AMYGDALÆ. Conf. amygd. 3j, aq. distil. lb. j; pectoral.

EMULSIO ARABICA. Gum Arab. 3ij, amygd. dulc. sacch. albi ana 3ss, decoct. hordei lb. j.

EM. CAMPHORATA. Camph. ʒj, amygd. dulc. 3ij, sacch. albi 3j, aq. 3vj.

2. Camph. gr. x, vitellum unius ovi, sacchari albi 3j., aq. 3vj. Commodious methods of giving camphor.

EM. OLEI AMYGDALARUM. Ol. amygd. 3j, gum Arab. pulv. 3j, syr. simp. 3j, aq. rosæ 3ss; in coughs.

EM. OLEI RICINI. Ol. ricini 3ss, vitelli unius ovi aq. dist. 3j, spir. lavand. comp. gtt. xl, syr. Tolut. 3ss; as an opening draught.

EM. OLEI TEREBINTHINÆ. Ol. tereb. rect. ʒj, sacch. alb. 3j, vitell. unius ovi, emuls. amygd. 3iv; in nephritic pains.

EM. TEREBINTHINÆ. Tereb. Chiæ 3ij, sacch. albi 3j, vitellum unius ovi, emuls. amygd. 3iv; in gleans.

EM. PRO GONORRHŒA CHRONICA. Bals. copaibæ, syrup. Tolutan., gum Arabic, ana 3j, spirit. æther. nit. 3ijss, aq. rosæ 3vj, mist. 3ss ad 3j; bis ter in die.

EM. EFFERVESCENS. Mist. amygdalæ 3j, vini ipecac. gtt. x, potas. carbon. gr. x: add succ. limon. 3iij, and take it while it effervesces: expectorant.

2. Mist. amygd, 3j, pot. carbon. gr. x, syr. papav. rubri 3j, succ. limon. 3iij; demulcent.

LOHOCH ALBUM. Amygd. dulc. No. 16, amygd. amar. No. 2, aquæ rosæ 3iv, make an emulsion, add gum tragacanth. gr. xvj, sacch. albi 3j, ol. amygd. 3iv, aq. flor. aurant. 3ij; spermaceti or ipecac. may also be added.

LOH. GUMMOSUM. Gum Arab. 3j, aq. rosæ 3iv, ol. amygd. 3iv, syr. althææ 3j.

LOH. OVI. Vitellum unius ovi, ol. amygd. ʒij, syr. althææ ʒj, aq. rosæ ʒiij.

LOH. TRONCHIN. Ol. amygd., syr. capilli Ven., mannæ, pulpæ cassæ, ana ʒij, gum. tragacanth. gr. xvj, aq. fl. aurant. ʒij : is sufficient for two days, beyond which it will not keep.

LOH. VIRIDE. Syr. violar. ʒj, pistach. ʒiv, infus. croci gtt. xv, aq. rosæ ʒiv, gum. tragacanth. gr. xvj, ol. amygd ʒiv, aq. fl. aurant. ʒij.

ICED CREAMS, ORGEATS, &c.

Cream for icing. New milk 2 pints, yelk of 4 eggs, white sugar 4 oz. ; rub together, strain, heat gently, and cool gradually ; ice as wanted : used also to make flavoured ices.—To ice cream and other liquids, put 2 pints into a covered icing pot, capable of holding twice as much, keep cool in a pail of ice ; bruise ice 6lb., mix it in a deep pan, with salt 2lb. ; throw some of this mixture into the hollow made by the the icing pot, and every five or six minutes open the pot, break down the ice that forms on the inside of the pot, that the whole may be converted into ice : as the ice and salt melt, add fresh.

Coffee for icing, Sorbet au café.—*Tea for icing, Sorbet au thé.* Cream for icing 2 pints, strong coffee or tea 2 oz., sugar 1 oz., yelk of 4 eggs : ice as wanted.

Chocolate for icing, Sorbet au chocolat. Chocolate 2 oz., rub 1 down with cream for icing 2 pints ; and ice as wanted.

Sorbet à la vanille. Cream for icing, flavoured with syrup of vanilla : ice as wanted.

Sorbet à la pistache.—*Sorbet aux amandes ordinaires.* Beat blanched almonds, or pistachia kernels 4 oz., into a paste, add cream for icing 2 pints, sugar 2 oz. ; ice as wanted.

Sorbet à la pistache de Provence. Provence almonds blanched 2 oz., apricot kernels blanched $\frac{1}{4}$ oz., white sugar 2 oz., cream for icing 2 pints, rub together, strain, and ice as wanted.

Orgeat, Sirop d'orgeat, Syrupus hordeatus. Amygd. dulc. lb. j, amygd. amar. ʒij ; make an emulsion by adding barley water 2 pints ; strain, to the strained liquor ʒxx, add sacch. alb. lb. jss, and when the sugar is dissolved, aq. flor. aurant. ʒj.

Syrupus amygdalinus. Jordan almonds 8 oz., bitter almonds 4 oz., water q. s. to make a very thick emulsion, strain, add the remainder of 2 pints of water, sugar ʒlb., orange-flower water 2 oz. ; sp. limon. cort. ʒvj ; strain through flannel.

2. Bitter almonds 8 oz., rose water a pint, orange-flower water 1 oz., make an emulsion, strain, and add white sugar 2lb.

Orgeat. Almond paste for orgeat 6 oz., water 2 pints, strain, flavour with orange-flower water.

WATERY MIXTURES.

FOR MEDICAL USE.

AQUA ALUMINOSA OF FALLIOPUS. Corr. sublim., ana ʒij, rose water, plantain water, ana lb. j, boil to a half and filter.

AQ. ALUMINIS BATEANA, *Aq. aluminis composita, Liquor aluminis compositus.* Alum, white vitriol, ana ʒss, water lb. iij; dissolve and filter: astringent; used in washing ulcers and eruptions, or as an injection in gonorrhœa and the whites.

MINERAL SOLVENT, *Fowler's solution of arsenic, Solvens minerale, Liquor arsenicalis.* White arsenic, kali ppi., ana gr. lxiv, distilled water lb. j: boil, and when cold, add lavender drops ʒiiij, distilled water q. s. to make an exact pint: tonic, febrifuge; used in agues; doses to adults gtt. xij, ter in die: stout boys, gtt. x—xij; young boys and girls, gtt. vij—x; children under seven, gtt. v—vij; from two to four, gtt. ij—v.

SYDENHAM'S STYPTIC WATER, *Aqua vitriolica cœrulea.* Blue vitriol ʒiiij, alum, oil of vitriol, ana ʒij, water ʒviiij: dissolve and filter.

SOLUTIO SULPHATIS CUPRI COMPOSITA. Blue vitriol, alum, ana ʒ oz., water 24 oz., oil of vitriol 2 oz. and a half: dissolve and filter; used to stop bleeding at the nose, applied with drossils of lint.

LIQUOR HYDRARGYRI OXYMURIATIS. Corrosive sublimate gr. viij, distilled water ʒxv, spirit of wine ʒj; dissolve: alterative, ʒij—ʒvj, bis terve in die; ʒj contains gr. ss of corrosive sublimate.

GOWLAND'S LOTION. Bitter almonds 1 oz., sugar 2 oz., distilled water 2lb.; grind together, strain, and add corros. sublim. ʒij, previously ground with S. V. R. ʒij; used as a wash in obstinate eruptions.

LOTIO ANTIPHLOGISTICA. Liquoris plumbi subacetatis ʒvj, liquoris ammoniæ acetatis ʒiv, aquæ puræ lb. ij. Misce.

LOTIO EVAPORANS ASTRINGENS. Ammoniæ muriatis ʒij, liquoris ammoniæ acet. ʒiiij, aquæ puræ ʒxij. Misce.

LOTIO NITRICO-MURIATICA. Acidi nitrici ʒss, aquæ puræ ʒiv vel ʒvj. Misce. Deinde adde acidi muriatici ʒss.

LOTIO OLEOSA. Liquoris calcis, olei olivæ, aâ partes æquales.

YELLOW WASH, *Aq. phagedenica.* Lime water lb. j, corrosive sublimate ʒss; rub together: shake up when used as a wash for foul ulcers, particularly the syphilitic.

WHITE WASH, *Royal preventive*, *Aq. lithargyri acetati composita*, *Liquor plumbi acetatis dilutus*, *Liq. subacetatis lithargyri compositus*. Extr. Saturni, proof spirit, ana j, distilled water lbj: cooling, astringent; used as a lotion in inflammations and burns.

YOUNG'S PURGING DRINK. Carbon of soda ʒijss, crystals of tartar ʒiij, water ʒviiij, corked up immediately in stone bottles and wired; a pleasant cooling laxative in summer.

WARD'S WHITE DROPS. Quicksilver 12 oz., spir. nitre 2lb.; dissolve, add ammonia ppa. 14 oz., evaporate so as to form a light salt, which drain and dissolve in rose water ʒlb. and a half.

2. Quicksilver 4 oz., spir. nitre lb. j; dissolve, add ammonia ppa. 7 oz., evaporate and crystallize, then dissolve each pound of salt in three pints and a half of rose water.

3. Corrosive sublimate ʒjss, spirit of salt 2 oz., water lb. jss: very inferior.

LIQUEUR DE PRESSAVIN. Dissolve quicksilver in spirit of nitre and precipitate it with subcarb. of potash, then take this precipitate and cream of tartar ana 1 oz., distilled water 40 oz.; dissolve: two spoonsful of this liquor is diluted with two pints of distilled water, and a wine glass, i. c. 2 oz. taken quaterve die, avoiding the use of common salt in the food: used in syphilis.

ALUM WHEY, *Serum lactis aluminosum*. Cows' milk lb jss, alum ʒijss; boil together and strain.

MUSTARD WHEY, *Serum lactis sinapinum*. Cows' milk lb ij, sem. sinapeos cont. 2 oz.; boil together and strain.

COLLYRIUM ASTRINGENS. Vini opii ʒij, zinci sulphatis ʒss, aquæ rosarum, aquæ puræ, āā ʒvj. Miscce.

COLLYRIUM ANTIPHLOGISTICUM. Liquoris plumbi subacetatis ʒss, aquæ rosarum ʒij, aquæ distillatæ lb. ss. Miscce aquam tepidam, partibus æqualibus, tempore utendi.

COLLYRIUM ACETOSUM. Aceti dist. ʒj, spir. vini ʒij, aq. rosæ ʒxij: in ophthalmia.

DE BRUN'S COL. ALOES. Aloes hep. ʒj, vini albi, aq. rosar. ana ʒjss: in ulcerated eyelids.

BATES'S EYE-WATER. Vitriol cær., bol. Gall. ana gr. xv, camph. gr. iv, æq. ferv. ʒiv; when cold add aq. lb. iv.

COMMON EYE-WATER, *Aq. ophthalmica*, *Aq. vitriolica camphorata*. White vitriol ʒss, camphire ʒij, boiling water lb. ij; dissolve and filter.

AQ. ZINCI VITRIOLATA CUM CAMPHORA. White vitriol ʒss, spiritus camphoratus ʒss, boiling water lb. ij; dissolve and filter:

discutient; used as a lotion for ulcers, or diluted with water p. æq. as a collyrium.

COL. AMMONIÆ ACETATIS. Opii gr. x, aquæ ferv. ʒvj; solve, cola et adde liq. ammon. acet. ʒij: when ophthalmia is very painful.

2. Liq. ammon. acet. ʒij, mist. camph. ʒvj: when ophthalmia has left the eyes relaxed and weak.

GOULARD'S EYE-WATER, *Col. Goulardi*. Extr. Saturni gtt. x, aq. rosar. ʒvj.

2. Extr. Saturni gtt. x, spir. camph. gtt. xx, aq. rosar. ʒviiij: in the inflammatory stage of ophthalmia.

COL. OPII. Opii gr. x, camphoræ gr. vj, aq. ferv. ʒxij, coletur: if ophthalmia is very painful.

COL. SACCHARI SATURNI. Gr. vj to aq. rosar. ʒvj.

COL. VITRIOLI ALBI. Gr. x to aq. rosar. ʒviiij.

2. Vitrioli albi ʒj, spir. camph. ʒjss, aq. fervent. ʒij, aq. rosar. ʒiv: in the weak state of the eyes after ophthalmia.

3. Vitri. alb. ʒss, album unius ovi, aq. rosar. ʒiv; the same, but much stronger.

COL. VITRIOLI CÆRULEI. Vitri. cærul. gr. iiij, mist. camph. ʒv, in the purulent ophthalmia of infants.

LIQUOR ZINCI ACETATIS. Zinci sulph. gr. xxiv, aquæ distill. ʒiv, solve: plumbi superacetat. gr. xxxij, aquæ distillat. ʒiv, solve. Mix the solutions, let them rest a little, and then filter. In ophthalmia and gonorrhœa.

EMBROCATIO AMMONIÆ ACETATIS. Liq. amm. acet. lb. j, spir. vini ʒiiij; for sprains and bruises.

EMB. CAMPHORÆ. Camph. ʒss, spir. vini lb. ss, aceti dist. ʒvj, aquæ ʒiiij.

EMB. SAPONIS. Sapon. alb. ʒiiij, spir. vini ʒxij, spir. corn. cervi ʒiv, camph. ʒj; as the former.

PURGING CLYSTER, *enema catharticum*. Mannæ ʒj, dec. chamæm. ʒx, ol. olivar. ʒj, sal. Epsom ʒss.

ENEMA FETIDUM. To the former add tinct. assæfœtidæ ʒij; antispasmodic.

ENEMA OPII. Inf. lini ʒviiij, tinct. opii ʒj: in pains from calculi.

TOBACCO CLYSTER, *Enema tabaci*. Fol. tabaci ʒij, aq. ferv. ʒxiiij; as soon as sufficiently cool, throw up one half, and the remainder half an hour afterwards if necessary, in strangulated hernia.

ENEMA TEREBINTHINÆ. Tereb. comm. ꝑss, vitellum ov unius, inf. lini ꝑx : in calculus.

COMMON CLYSTER, *Enema domestica.* Mutton broth strained, linseed oil, of each a quarter of a pint, brown sugar an oz.

ENEMA CATHARTICUM. Dec. malvæ c. ꝑx, magnes. sulph. ꝑj, ol. oliv. ꝑij; m.

EN. FÆTIDUM. Dec. malvæ c. ꝑx, assæfœt. ꝑij, spir. ammon. comp. ꝑjss, tinct. opii ꝑss; m.

EN. STIMULANS. Colocynth. pulp. ꝑj, boil in aquæ ꝑxij, strain and add sal. comm., syr. rhamni, ana ꝑj; m.

EN. OPIATUM. Mucilag. amyli ꝑvj, tinct. opii ꝑj; misce.

EN. OL. TEREBINTHINÆ. Ol. terebinth. ꝑss, vitelli ovi No. 1, grind and add gruel ꝑx.

EN. ANTICOLICUM. Inf. chamæm. ꝑx, add ol. cajeputi gtt. iij, dissolved in spir. nitri dulc. gtt. xl.

CAPSICUM GARGLE, *Gargarisma capsici.* Capsici pulv. ꝑj, sal. comm. ꝑj, aceti ꝑiv, aq. ferv. ꝑj, strain; used in ulcerated sore throat and scarlet fever.

OAK BARK GARGLE, *Gargarisma quercûs.* Alum ꝑss, cort. querc. ꝑij, ol. vitriol. gtt. xxx, aq. ferv. ꝑvj; in relaxation of the uvula.

GARGARISMA ÆRUGINIS. Linim. ærug. ꝑij, mell. ꝑj, aq. ꝑvj.

GAR. BORACIS. Boracis ꝑij, mell. ꝑj, aq. rosar. ꝑvij: in thrush.

GAR. NITRI. Sal nitri ꝑij, mell. ꝑiv, aq. rosar. ꝑvj: in inflammatory sore throat; used frequently.

GARGARISMA COMMUNE. (*Inf. for child.*) Aquæ puræ ꝑxxij, sub-boracis sodæ ꝑx, tinct. catechu ꝑj, tinct. capsici annui ꝑij, mellis rosæ ꝑjss. Misce. Interdum adde, loco boracis sodæ et tinct. catechu, acidum muriaticum, vel acidum sulphuricum.

GAR. SPIRITUS SALIS. Spir. salis gtt. xx, mell. ꝑj, aq. ꝑiv: in inflammatory sore throat.

GAR. SUBLIMATI CORROSIVI. Subl. corr. gr. iij, aq. dist. lb. j: for venereal ulcers in the throat.

GARGARISMA ASTRINGENS. Infus. rhatanhiæ ꝑvjss, acid. sulph. dil. ꝑijss, syrup. mori ꝑj. In relaxation of the uvula and fauces (*Sprague.*)

GUTTÆ FELLIS. Fell. bov. ꝑij, bals. Peruv. ꝑj, to be dropped in the ear, after syringing with soapy water: in abscess of the ear.

INJECTIO CAUSTICI LUNARIS. Caust. Lun. gr. ij, aq. dist. ℥j; for fistulous sores.

LINIMENTUM CALCIS, *L. aquæ calcis*. Linseed or common olive oil, lime water, ana p. æq., shake them together.

LIN. OPII. Linim. camph. comp. ℥ix, tinct. canthar. ℥j, tinct. opii ℥ij; stimulant and anodyne.

LOTIO ACIDI NITRICI. Aq. fortis ℥j, aquæ lb. j; in mortification.

LOTION OF PRUSSIC ACID. Magendie's medicinal Prussic acid ℥ij to ℥iiij, aq. sambuci lb. j; in cancer.

L. ALUMINIS. Alum., aceti distil., vitrioli alb. ana ℥ss, aquæ lb. ij; for chilblains.

L. AMMONIÆ ACETATIS. Spir. rect. ℥ij, liquor ammon. acet. ℥v; in phlegmonous inflammation.

L. GOULARDI. Extr. Saturni ℥j, S. V. R. ℥ij, aquæ rosæ lb. j.

2. Extr. Saturni ℥ij, acet. dist. ℥iv, S. V. R. ℥ss, aquæ rosæ lb. j: as the former.

BLACK WASH, *L. hydrargyri nigra*. Calomelanos ℥ij, aq. calcis lb. j: in syphilis.

L. MYRRHÆ. Tinct. myrrhæ, aq. calcis, ana ℥ij: in scorbutic ulcers.

L. OPII. Opii ℥ij, aq. distil lb. j: for painful and irritable ulcers.

L. SALIS AMMONIACI. Sal. ammon. ℥j, aceti, spir. rect. ana lb. ss; in circocele.

L. VITRIOLI CERULEI. Vitriol. cærul., boli Gall. ana ℥ ss, camphoræ ℥j, aq. ferv. lb. iv: in phagedænic ulcers.

HAUSTUS AMMONIÆ ACETATIS. Liq. ammon. acet. ℥iiij, mist. camph. ℥xij, liq. antim. tartar. gtt. xx, syr. croci ℥j; every four hours, in low fevers, as a diaphoretic.

HAUSTUS ACIDI NITRICI COMP. Acidi nitrici dil., spirit. æther. nitrici, āā ℥j, infus. digitalis ℥iiij, aq. distill. ℥ix, syrup zingiberis ℥ij. Misce. Ter die sumendus. In dropsies.

COMMON BLACK DRAUGHT. Inf. sennæ comp. ℥v, aq. cinnam. ℥j, mannæ ℥iv, magnes. sulph. ℥vj; dose a wine glass, when necessary.

HAUSTUS BISMUTHI. Oxydi bismuthi gr. v, pulv. tragacanth. ℥j, menth. virid. ℥jss, ℥. In gastrodynia.

H. SALINUS. Kali ppi. ℥j, succi limon. ℥ss (vel acid. citrici gr. xv), aq. cinnam ℥ij, aquæ ℥viiij, syr. aurant. ℥j: as the former.

H. SALINUS EFFERVESCENS. Kali ppi. ℥j, aq. cinnam. ℥ij, aq. ℥j, syr. aurant. ℥jss: when taken, add a table spoonful of lemon juice, and drink it immediately, in putrid sore throat.

MISTURA ALKALINA ANODYNA. Tincturæ opii ℥ij, liquoris potassæ ℥ijss, spiritus myristici ℥ss, aquæ puræ ℥xjss. Miscæ.

MISTURA AMMONIACI. Gum. ammon. ℥ij, aq. lb. jss: expectorant.

MIST. AMMONIÆ ACETATIS. Liq. ammon. acet. ℥jss, sal. nitri ℥ij, mist. camph. ℥vj, syr. rosæ ℥ss; dose, three spoonful every three or four hours: diaphoretic, in inflammatory fevers.

MIST. ASSAFÆTIDÆ. ℥ij to half a pint of water; antispasmodic.

MIST. ASSAFÆT. MILLARI. Assafæet. 1, liq. ammon. acet. 4, aq. pulegii 12; a table-spoonful every three hours.

ASTRINGENT MIXTURE, (Hosp. Par.) Rose water ℥iv. extr. of rhatanhia root ℥j, syrup of diacodium ℥j.

MIST. CAMPHORÆ. Camph. ℥ss, spir. rect. gtt. x, aq. lb. j; as a vehicle.

MISTURA CARMINATIVA. (Inf. for child.) Magnesiæ sulphatis ℥jss, magnesiæ carbonatis ℥ijss, tincturæ cardamomi comp. ℥jss., tincturæ castorei ℥xl, olei anisi ℥x, aquæ anethi ℥xij, aquæ puræ ℥vij. Miscæ. Dosis, a ℥ij, ad ℥ss, 4tis vel 6tis horis.

MIST. COSMETICA. Ol. amygd. ℥iv., ol. tart. p. d. ℥ij, ol. rhodii gtt. iiij, mix: clears the skin, but makes it smart.

MIST. CRETÆ. Cretæ ppæ. ℥ss, sacch. puri ℥ij, gum Arab. ℥ss, aquæ lb. j: antacid, absorbent, ℥j—℥ij after every liquid stool, in diarrhœa.

MISTURA FEBRIFUGA. (Inf. for child.) Misturæ camphoræ ℥xxij, antimonii tartarizati gr. iiij, potassæ nitratis ℥vj, spiritus ætheris nitrici ℥ss, syrupi limonum ℥ss. Miscæ. Dosis, a ℥j—℥ss. Interdum adde, vinum ipecacuanhæ, vel tincturam digitalis, vel tincturam opii, vel syrupum papaveris.

MIST. FERRI COMPOSITA. Myrrhæ ℥j, subc. potassæ gr. xxv, sacch. puri ℥j, aq. rosæ ℥vijss; rub together, add spir. nuc. mosch. ℥ss, sal Martis ℥j; pour in mediately into draught phials, so as to quite fill them, and keep them close stopped till required for use. Tonic, antihysterical, ℥ss to ℥ij, bis terve in die.

MIST. GUAIACI, P. L. Gum guaiaci ℥jss, sacch. albi ℥ij, muc. gum. Arab. ℥ij, aq. cinnam. ℥vij: in rheumatism, ℥ss to ℥ij, nocte maneqe, with barley water or gruel.

MIST. GUAIACI AMMONIAT. (Guy's Hosp.) Gum guaiaci ℥ij, liq. sub-carb. ammon, ℥ijss, decoct. hordei ℥vij; ℥ss to ℥j 2 or 3 times a day.

MIST. RHEI COMP. (*Guy's Hosp.*) Rhub. ʒj, sub-carb. of soda ʒij, tinct. of orange peel ʒjss, decoction of liquorice ʒss—ʒjss twice or thrice a day.

MIST. MOSCHI. Moschi, gum Arab., sacch. pur. ana ʒj, aq. rosæ ʒvj : antispasmodic, ʒss to ʒij every four hours.

MIST PRO DIARRHŒA. Olei cinnamom. gtt. viij, sacchar. albi ʒij. Misce. Dein adde decoct. tormentillæ ʒvj, pulv. cretæ comp. cum opio ʒij, tinct. rhatanhiæ ʒss. Misce, ʒss ter die.

2. Copaibæ ʒij, mellis despum. ʒvj ; misce, et adde gradatim decocti tormentillæ ʒvj, tinct. rhatanhiæ ʒj, tinct. opii. gtt. xl ; misce ; ʒss—ʒjss, bis terve de die.

3. Decoct. tormentillæ ʒvj, tinct. cubebæ ʒx, tinc. catechu. ʒiij, syrup. papaveris ʒj ; misce : ʒss—ʒjss, ter die.

These three preparations are very useful in colliquative diarrhœa and leucorrhœa.

MIST. TARTARI EMETICI. Liq. antim. tart. ʒss, salis nitri ʒij, aq. menthæ viridis ʒvj, syr. simpl. ʒss : diaphoretic, three spoonful every three hours.

MIST. EMETICA. Vin. ipecac. ʒj, tart. emet. gr. j, aq. ʒjss : for a dose.

2. Ipecac. ʒss, tart. emet. gr. j, tinct. scillæ ʒj, aq. ʒviss. ; dose coch. maj. iij at first and two more every fifteen minutes till it operates.

3. Tart. emet. gr. ij, aq. ʒiv : dose coch. med. ij every quarter of an hour.

4. Vitrioli cærul. gr. x, aq. ʒij, for a dose.

MIST. ANTISPASMODICA. Tinct. castor. ʒj, æther. sulph. gtt. x, tinct. opii gtt. vij, aq. cinnam. ʒjss : for a dose, thrice a day.

2. Moschi ʒj, gum Arab. ʒss, aq. rosæ ʒj, æther. sulp. ʒj : for one dose, pro re nata.

3. Assafœt. ʒj, aq. menth. pip. ʒj, tinct. valer. amm. ʒij, tinct. cast. ʒiij, æth. sulph. ʒj : dose coch. maj. j every two hours ; in hysteria.

4. Rad. valer. ʒj, tinct. valer. amm., tinct. castor. ana ʒj, mist. camph. ʒxij, for a dose thrice a day.

MISTURA SEDATIVA. (*Inf. for child.*) Magnesiæ subcarbonatis, cretæ præparatæ, pulv. acaciæ, āā ʒij, spiritus ammoniæ aromat. ʒjss, tinct. assafœtida ʒiij, syrup. papaveris ʒss, aquæ distillatæ O j. Misce. Dosis, à ʒj ad ʒss, ʒtis, vel 4tis, vel 6tis horis. Interdum adde tinct. catechu. &c. &c.

MIST. NARCOTICA. Tinct. opii gtt. xv, syr. papav. ʒij, spir. cinnam. ʒj, aq. ʒj ; for a dose, at the commencement of the hot fit of an ague.

2. Mist. camph. ℥j, sp. æther c. ℥ss, tinct. opii gtt. x, syr. papav. ℥j: for a night draught.

MIST. PURGANS. Sal. Epsom, sal. Glaub. ana ℥iij, aq. menth. vir. ℥ss, liq. antim. tart. ℥j: dose coch. maj. ij, thrice a day.

2. Sal. Epsom, sal. Glaub, ana ℥ss, vitrioli virid. gr. v, mist camph. ℥vijs: dose coch. maj. ij, twice a day, for a continuance.

3. Ol. ricini ℥ss, vitelli ovi q. s, syr. papav. ℥ij, tinct. opii gtt. v, aq. ℥j; for a dose, every three or four hours, in Devonshire or painters' colic.

4. Rad. rhæi gr. xviii., potas. supersulph. gr. x., aq. cinnam ℥j, for a dose.

5. Sodæ tartar. ℥j, sodæ carbon. ℥j, aq. ℥jss, dissolve, and add when about to be taken succi limon. coch. j maj. to cause an effervescence; for a morning draught, daily.

6. Sodæ carbon. ℥ij, ferri sulph. gr. iij, magnes. alb. ℥j, aq. lb. jss: when the salts are dissolved, add spir. vitrioli ℥x, and stop the bottle immediately until required; an excellent tonic.

MIST. DIURETICA. Inf. gentianæ comp. ℥jss, potas. subcarb. gr. x., spir. æther. comp. ℥ss, tinct. cinnam. ℥j; for one dose.

2. Potas, subcarb. ℥j succ. limon. ℥ss, or q. s, aq. cinnam. ℥j, aceti scillæ ℥jss, tinct. opii gtt. v, syr. aurant. ℥ss; for a dose twice a day, frequently.

3. Potas. acet. ℥j, oxym. colchici ℥ij, aq. ℥j, spir. junip. c. ℥ss; for a dose.

4. Liq. ammon. acet. ℥j, potas. acet. ℥j: for a dose, thrice a day.

5. Sal. nitri ℥j, mist. ammon. ℥vj, sp. junip. c. ℥jss, aceti scillæ ℥vj; dose coch. ampl. j, every four hours.

6. Tinct. lyttæ gtt. x, sp. æther. nitr. ℥j, mist. camph. ℥xij, syr. zz. ℥j: for a dose, thrice a day.

MIST. DIURETICA FORTIOR. Infus. digitalis ℥vss, tinct. digitalis ℥ss, potassæ acetatis ℥ij, tinct. opii m viij. Misce, ℥ss ad ℥ss bis terve de die.

MIST. DIURETICA ET TONICA. Infus. gentianæ comp. ℥vj, acetatis potassæ ℥jss, spir. junip. comp., spir. armorac. comp. ana ℥ss, spirit. æther. nit. ℥ijss. Misce.

MIST. ANTIHYSTERICA. Assafoetid. ℥j, tere cum aq. menth. piper. ℥vj, dein adde tinct. valer. ammon. ℥ij, tinct. castoræ ℥iij, æther. sulph. ℥jss. Misce. Dose ℥ss, 2 dis horis.

MIST. AMMONIACI COMPOS. Ammoniacy ℥jss, aq. cinnamom. ℥v, tinct. castoræ ℥jss, tinct. opii m x, syrup. tolutan. ℥j. Misce, ℥ss ad ℥j, subinde.

MIST. CARMINATIVA. Magnes. ustæ gr. xxxv, pulv. rhei gr. viij, sacchar. albi ʒjss, olei anisi gtt. v, tinct. castorei gtt. xv, tinct. opii gtt. iv, aq. fontan. ʒij. *Misce.* Dose, ʒj ad ʒiij, infantibus.

MIST. ANODYNA, (pro infantibus). Testæ præpar. ʒij, syrup. papav. alb. ʒj, spirit. ammon. foetid. ʒjs, olei. anethi. āā gtt. iij, aq. distil. ʒiij. *Dosis,* ʒj—ʒij, 4tis horis.

MIST. EXPECTORANS. Assafœt. ʒij, aq. menthæ sat. ʒiij, syr. Tolu. ʒj; dose coch. maj. j, every three hours.

2. Mist. ammon., aq. cinnam. ana ʒjss, syr. Tolu. ʒss, tinct. castor. ʒij, tinct. opii gtt. v; dose coch. maj. j, when the cough is troublesome, in pertussis.

MIST. DIAPHORETICA. Mist. camph. ʒjss, liq. ammon. acet. ʒss, liq. antim. tart. gtt. xx, tinct. opii gtt. x; for one dose.

2. Potas. carbon. gr. x, mist. camph. ʒj; for a dose, to be taken with lemon juice, while effervescing.

MISTURA DIAPHORETICA, (Inf. for child.) Liquoris ammoniæ acetatis ʒiv, vini antimonii tartarizati ʒss, vini ipecacuanhæ ʒij, syrupi papaveris ʒss, aquæ distillatæ ʒxxx. *Misce.* *Dosis,* à ʒj ad ʒj ʒtis, 4tis, vel 6tis horis. Interdum adde spiritum ætheris nitrici, vel tincturam opii.

MISTURA DIAPHORETICA ANODYNA. (Inf. for child.) Liquoris ammoniæ acetatis ʒiv, vini antimonii tartarizati, vini ipecacuanhæ, ʒij, āā spiritûs ætheris nitrici ʒss, syrupi papaveris ʒj, extracti conii gr. xiv, aquæ distillatæ ʒxij. *Misce.* *Dosis,* à ʒj ad ʒss 4tis, vel 6tis horis.

MIST. EMMENAGOGA. Aq. cinnam. ʒj, mist. ferri comp. ʒss; for a dose, twice a day.

2. Tinct. ferri mur. tinct. aloes c. ana ʒss, tinct. castor. ʒij; dose coch. minimum j, in a cup of camomile tea, three times a day.

MIST. DEMULCENS. Sperm. cœti ʒij, vitel. ovi dimid., syr. simpl. ʒss, aq. cinn. ʒij, aq. ʒiv; dose coch. maj. j, frequently.

MIST. ANTACIDA. Liq. potassæ ʒij, liq. calcis ʒvj; dose one or two spoonful pro re nata, in beef tea.

2. Magn. albæ ʒss, aq. menth. pip. ʒijss, spir. lavand. c. ʒss, syr. carui ʒiv, syr. zz. ʒij; dose coch. med. j, pro re nata.

MIST. BALSAMI PERUVIANI. Balsam. Peruv. ʒij, mellis despumati ʒij, misce et adde gradatim, decocti glycyrrh. ʒvj, acid. sulphur. arom. gtt. xx, tinct. aurantii co. ʒss. *Misce.* In doses of ʒss, and ʒjss, in diseases of debility. (I. C.)

MIST. REFRIGERANS. Sal. amm. ʒij, acet. ʒij, spir. camph. ʒss; for a lotion.

2. **Extra Saturn.** ʒj, acet. ʒij, S. V. R. ʒij, aq. ʒviiij; for a lotion.

MIST. STIMULANS. Ammon. carb. ʒss, aq. menth. pip. ʒvij, syr. aurant. ʒss, dose coch. med. when the patient is faint.

√ 2. **Mist. camph.** ʒj, sp. æth. sulph. ʒij, tinct. cardam. c. ʒiv, sp. anisi ʒvj, ol. carui gtt. xij, syr. zz. ʒij, aq. menth. pip. ʒvss; dose coch. maj. ij, pro re nata, in windy colic.

MIST. ROBORANS. Infus. rosar. co. ʒvss; quininæ sulphatis gr. xij, acidi sulph. arom. ℥ xxv, tinct. aurantii co. ʒij. In doses of ʒss—ʒjss, bis ter die.

MISTURA TONICA. Infusi cascarillæ lb. ij, tinct. aurant. comp. ʒij, acidi sulphurici aromat. ʒij. Misce. Dosis, à cochlear. j ad Coch. iij, magna ter die.

MIXTURE OF HYDROCYANATE OF POTASH. Hydroc. of potash ʒj, distilled water 1 pint, sugar ʒjss; coch. med. j, nocte manequē, or in divided doses.

2. **Hydrocyan. potassæ** gtt. xv, aq. distill. ʒij, syr. simp. ʒj; coch. min. j. omnibus tribus horis.

MIXTURE OF CYANURET OF POTASH. Cyanur. potassæ gr. ss, aq. dist. ʒij, syr. simp. ʒj; coch. med. j. omnib. duobus horis.

MIXT. OF BRUCINE. Brucine gr. v, sach. alb. ʒij, aq. dist. ʒij; coch. maj. j, nocte manequē.

ANODYNE DROPS. Acetate of morphia, gr. xvj, acid. acet. gtt. iij, S. V. R. ʒj, water ʒj; anodyne, gtt. 6 to 24: the sulphate may be used for a change.

MIXTURE OF COLOURED EMETINE. Emetine gr. iij ss, simple syrup ʒss, water ʒij; coch. med. j, every half hour; emetic.

MIXT. OF PURE EMETINE. Pure emetine gr. j, dissolve in a drop or two of nitric acid, simple syrup ʒj, water ʒij; mix; coch. med. j, every fifteen minutes till vomiting is produced.

MIXT. OF STRYCHNINE. Strychnine gr. j, sacch. alb. ʒij, acet. gtt. ij, aq. dist. ʒij; in palsy, coch. min. j, nocte manequē.

MIXT. OF PRUSSIC ACID. Magendie's medicinal Prussic acid ʒj, water lb. j, sugar ʒjss; coch. med. j, morning and evening, up to coch. vj or viij in a day and night.

2. **Magendie's medicinal Prussic acid** gtt. xv, simple syrup ʒj, water ʒij; coch. med. j, every eight hours.

ACIDUM HYDROCYANICUM VEGETABILE. Ol. amygd. amar. æther. fresh made ʒj, alcoholis, aq. distil. ana ʒiv; m.; dose gtt. ij, gradually increased.

AQUA HYDROC. VEGET. Ol. amygd. amar. fresh made ʒj, alcoholis ʒjss, aq. distil ʒxvjss.

MISTURA ARSENICALIS. Liquor. arsenicalis ʒiij, tinct. cardamom. com. ʒv, aquæ cinnamom. ʒiij, aq. distil. ʒiv. Misce. Dosis ʒj, bis terve in die. Taken after a meal for agues, periodic cephalalgia, lepra, chronic rheumatism, &c.

MIST. CONII COMPOSITA. Extracti conii ʒss, sodæ sub-carbon. gr. xlv. Decocti glycyrrh. ʒvss, spiritus pimentæ ʒiij. Misce. Dosis, ʒss—ʒij, in pertussis, and pulmonary irritation.

MIST. CINCHONÆ APERIENS. Confectionis rosæ gallicæ ʒj; contere cum decoct. cinchonæ ferventis, ʒviiij, stent simul per horam et cola.,—liquori colat. adde acidi sulphur. dil. ʒj, magnesiæ sulphatis ʒivss, spiritus myristicæ ʒss. Misce. Dosis ʒj—ʒjss, bis terve quotidie.

MISTURA CATHARTICA AMMONIATA. Olei menth. virid, ʒiij, sacchari purif. ʒiij, tere simul, tum adjice infus. sennæ co. ʒviij, sodæ sulphatis ʒj, tinct. sennæ ʒv, spirit. ammon. aromat. ʒiij. Dosis ʒj—ʒij.

✓ **MIST. OLIBANI COMPOS. (Sprague).** Gum res. olibani ʒij, bals. copaibæ ʒjss, mucilag. acaciæ ʒjss, mellis despumati ʒj, aquæ cinnamom. ʒv, tinct. cantharidis ʒij. Misce. ʒss—ʒjss, bis ter in die. In gleet, leucorrhœa, &c.

MIST. MYRRHÆ. (Sprague). Myrrhæ ʒjss, decoct. glycyrrh. ferventis ʒvss; tere simul, et cola. Dosis ʒj bis terve quotidie; with either sub-carbonate of soda, or a little mineral acid, or camphorated tincture of opium.

MIST. RHEI COMPOS. (Sprague). Rhei radicis pulveris ʒss, ad ʒjss, sodæ sub-carbon. ʒj—ʒjss, decocti glycyrrh. ʒvjss, tinct. aurantii ʒvj. Misce. Doses ʒss—ʒjss, twice or thrice a day as a stomachic, or aperient.

✓ **MIST. INFUS. UVÆ URSI CUM DIGITALE.** Infus. uvæ ursi ʒviijss, acidi sulph. dil. ʒij, tinct. digitalis ʒj, syrup. papaveris, ʒiij. Misce. In chronic inflammation of the larynx, trachea, and mucous membrane of the urinary organs.

✓ **MIXTURE WITH INFUSION OF UVA URSI.** *Mist. infus. uvæ ursi comp.* Infus. uvæ ursi ʒviijss, potassæ carbon. ʒij, extracti conii gr. xx, extract papaveris gr. xxv, syrup. zingiberis ʒiij. Misce. ʒj—ʒjss. In chronic diseases of the urinary organs.

HADEN'S LIQUOR OPII SEDATIVUS. Extract a tincture from the bottoms of tinctura opii, by means of tartaric acid dissolved in water.

✓ **OXYRHODINUM.** Ol. rosati ʒij, aceti rosati ʒj: used as a liniment in herpes and erysipelas.

SOOT DROPS, *Fit drops, Tinctura fuliginis.* Wood soot ʒij, kali ppm. lb. ss, sal. ammon. ʒj, aq. fluvial. lb. iij; digest for three days, and strain: antispasmodic.

DALBY'S CARMINATIVE. Magn. alb. ʒij, ol. menth. pip. gtt. j, ol. nuc. mosch. gtt. iij, ol. anisi gtt. iij, tinct. cast. gtt. xxx, tinct. assaf. gtt. xv, tinct. opii gtt. v, spir. pulegii gtt. xv, tinct. cardam. c. gtt. xxx, aq. menth. pip. ʒij.

MISTURA GUAIACI ALKALINA. Guaiaci, calcis vivæ, ana ʒj; grind together, and add water lb.

TINCTURE OF BARK WITH LIME WATER. Cort. Per. ʒij, calcis vivæ ʒj; grind together, and add aq. calcis lb. ij; filter: dose ʒijj thrice a day. Mixes well with watery liquids.

DR. PORTER'S LIQUOR MORPHII CITRATIS. Opii ʒiv, ac. citrici cryst. ʒij; grind together; add aq. bull. lb. j, digest for a day, and filter: milder than the usual opiates.

FLY WATER. White arsenic ʒj, water a pint: dissolve by boiling and sweeten with treacle: used to destroy flies.

VETERINARY MEDICINES.

TINCTURE OF EUPHORBIVM MADE WITH OIL OF TARTAR. *Tinctura euphorbiæ alkalina.* Gum euphorbium 8 oz., aq. kali ppi. ʒlb.; caustic, much used by the farriers.

WHITE'S SOLUTION OF POTASH. Subc. of potash 2 oz., lime water 8 oz.; dissolve; used to correct the acidity of the stomach in calves.

ANODYNE CLYSTER FOR HORSES. Opium 1 to 2 drachms, (or tincture of opium 1 oz. to 1½ oz.), water gruel 2 to 3 pints.

STIMULANT CLYSTER FOR HORSES. Common salt 8 oz., linseed oil 4 oz., water 8 or 10 pints; mix; useful in stomach staggers.

CAMPHIRE CLYSTER FOR HORSES. Camphire 3 to 4 dr., olive oil 1 oz., kali ppm. 1 dr., rub together and add tinct. of opium 1 oz., warm water 2 pints; as a diuretic, in stoppage of water.

OPIATE CLYSTER FOR HORSES. Opium 1 dr. to 1½ dr., warm water 8 oz., dissolve, and add it to about 2 pints of boiled starch.

PURGATIVE CLYSTER FOR HORSES. Common salt 4 to 8 oz., warm water 8 or 12 pints; dissolve.

CLYSTER FOR COWS. Common salt 1 lb., water 10 or 12 pints; to be given after the laxative drenches, to assist their operation.

CORDIAL FOR CALVES. Caraway seeds powdered ½ oz., ginger powder ½ dr., subcarb. of soda 1 dr., brandy or gin 1 oz., water 8 oz. 2. Brandy ½ oz., cows' urine 4 oz.

ANODYNE DRENCH FOR HORSES. Tinct. of opium 2 dr. to 1 oz., sweet spir. of nitre 1 to 2 oz., essence of peppermint 1 to 2 dr., water a pint; mix.—2. Anodyne ball dissolved in warm ale.—3. Gum Arabic 2 oz., dissolve in a pint of warm water, and add oil of peppermint 20 drops, tinc. of opium $\frac{1}{2}$ oz.; useful when horses have been purged too much.

ASTRINGENT DRENCH FOR HORSES. Ppd. chalk and gum Arab. of each 1 oz., mint water 12 oz., tinct. of opium $\frac{1}{2}$ oz.; mix for a dose.—2. Powdered opium $\frac{1}{2}$ dr., natrum ppm. 1 dr. powdered ginger $1\frac{1}{2}$ dr., water gruel 1 pint; mix.—3. Opium $\frac{1}{2}$ dr., ginger powd. 2 dr., oak bark powd. 1 oz., decoction of oak bark or strong camomile tea, a pint; for diabetes.

DRENCH FOR BOTTS IN HORSES. Common salt 4 to 6 oz., water 2 pints; dissolve: the horse to be kept fasting for 10 or 12 hours, then have 2 pints of milk sweetened with honey given, and about five minutes afterwards the drench.

CARMINATIVE DRINK FOR HORSES. Rum, brandy, or gin 4 to 6 oz., water 12 oz.; mix fully equal to Daffy's elixir in effect.

COLIC DRENCH FOR HORSES. Ven. turp. 1 to 3 oz., oil of juniper 2 or 3 dr., sweet spir. of nitre 1 oz., water 1 pint; mix for a dose.—2. Tinct. of opium 6 dr. to 1 oz., sweet spir. of nitre 1 oz. to 12 dr., water or peppermint water 1 pint; mix for a dose.—3. Sal Epsom \bar{v} , sap. Castil. \bar{ij} ss, tinct. opii \bar{ij} , dissolve in aq. cinnam.

COUGH DRENCH FOR HORSES. Fresh squills 3 oz., (or garlick 4 or 5 oz.,) vinegar 1 pint; soak for a few hours, squeeze out the liquor, and add treacle 1 lb.: for 4 doses.

DRENCH FOR DROPSY OF THE BELLY IN HORSES. Strong ale 10 pints, wormwood one handful, boil gently to two pints; add long pepper and grains of Paradise of each $1\frac{1}{2}$ oz., treacle 3 oz., Castile soap 2 to 4 oz.; for a dose, and the horse exercised immediately till he sweats.

GARLICK DRENCH FOR HORSES. Garlick 1 to 2 oz., boil in milk 2 pints; used in chronic coughs.

LAXATIVE DRENCH FOR HORSES. Barb. aloes 3 dr., canella alba $1\frac{1}{2}$ dr., salt of tartar 1 dr., mint water 8 oz.; mix for a draught.—2. Barb. aloes 3 dr., kali ppm. $1\frac{1}{2}$ dr., castor oil 4 to 6 oz., mint water and plain water of each 4 oz.: in fevers if costive.—3. Epsom salt 6 to 12 oz., whey or gruel 2 pints, castor oil 6 to 12 oz.; mix.—4. Castor, olive, linseed, or rape oil, or hog's lard, of either 8 oz., warm water $\frac{1}{2}$ pint; mix.—5. Barb. aloes 2 to 3 dr., kali ppm. 2 dr., castor oil and warm water of each $\frac{1}{2}$ pint; mix for a dose.—6. Barb. aloes to 3 dr., salt of tartar 1 dr., mint water and castor oil of each $\frac{1}{2}$ pint; mix.—7.

Common salt 4 oz., cream $\frac{1}{2}$ pint, water 2 pints; mix: used by farmers.—8. Barbadoes aloes 6 dr., common salt 6 oz., flour of mustard 1 oz., water 2 pints; mix: used in the staggers.—9. Epsom or Glauber's salt 6 to 8 oz., whey 2 pints; mix: useful when the animal is feverish, as a cooling purge after bleeding, in influenza or chills.—10. Barbadoes aloes $\frac{1}{2}$ oz., salt of tartar 2 dr., Glauber's salt 6 oz., water 2 pints; mix: used in the mad staggers, after very plentiful bleeding.

PURGING DRENCH FOR HORSES. Barbadoes aloes 1 oz., Castile soap 2 dr., kali ppm. 1 dr., water 1 pint; dissolve for one dose.

STIMULANT DRENCH, for stomach staggers. Common salt 1 oz., water $\frac{1}{2}$ pint; dissolve, and add spirit of sal volatile 1 to 2 dr.—2. Tinct. of cardamoms 2 oz., mint water 12 oz.; mix.—3. Barbadoes aloes 6 dr. to 1 oz., calomel 1 to 2 dr., cascarrilla 2 dr., oil of peppermint 20 drops, tincture of cardamoms 2 oz., water as warm as the horse can take it 12 oz.; mix: for stomach staggers.

TURPENTINE DRENCH FOR HORSES. Ven. turp. 1 oz., yolk of eggs No. 2; rub together, and add mint water 1 pint; used in stoppage of water.

WORM DRENCHES. Common salt 4 oz., aloes 2 dr., water 2 pints; mix.—2. Oil of turp. 4 oz., oatmeal gruel 1 pint; mix.—3. Oil of turp. 4 oz., castor or linseed oil 8 oz., gruel 8 oz.; mix.

CORDIAL ASTRINGENT DRENCH FOR COWS. Powdered catechu and allspice of each 2 drachms, caraway seeds powd. $\frac{1}{2}$ oz., table beer or water $\frac{1}{2}$ pint, simmer a few minutes over the fire, and then add strong beer or ale $\frac{1}{2}$ pint; used in all loosenesses and scouring of cattle: for sheep this will make four doses.

LAXATIVE DRENCH FOR COWS. Common salt 4 to 6 oz., flour of mustard a table spoonful, grated ginger or ground pepper of either a tea spoonful, gin or other spirit a quarter of a pint, water 2 pints.—2. Barbadoes aloes 4 drachms, common salt 4 oz., ginger 1 dr., anodyne carminative tincture 2 oz., water 2 pints; useful in red water, gorged choking, loss of cud, or whenever purging is useful.—3. Epsom salt 6 to 8 oz., castor or olive oil 6 or 8 oz., water a pint, mix: this is more proper when fever is present, and the animal feels hot, and the pulse is quick.

DRENCH FOR THE CHILL IN COWS. Flour of mustard, a little salt, and a quart of water. The chill is the dyspepsia of medical writers; the milk becomes flaky and of a yellowish colour, hence it is also called the yellows; the appetite goes off sometimes entirely, and the animal is dull and heavy.

CARMINATIVE DRENCH FOR COWS. Common salt 4 oz., Barbadoes aloes 4 drachms, ginger powd. 1 dr., water 2 pints, anodyne carminative tincture 2 oz.; mix: used in blasting, hoving, or

blowing of cattle, that is, in over feeding; also in the yellows. If the wind threaten to burst the animal, it must have a passage made for it by a probang. This purgative drench is usually succeeded by a clyster immediately afterwards.

DRENCH FOR HOVEN CATTLE. Natron ppd. 4 oz., castor oil $\frac{1}{2}$ pint, water a pint; for a dose.

DRENCH FOR SCOURING ROT IN HORNED CATTLE. Mutton suet boiled in milk.

PURGING DRENCH FOR CALVES. Epsom salt 6 to 8 oz., water 4 pints; if they appear griped, add castor oil 2 oz., anodyne carminative tincture 2 drachms.

LAXATIVE DRENCH FOR CALVES. Epsom salt 2 oz., ginger powder and natrum ppd. of each $\frac{1}{2}$ drachm, water 4 oz.—2. Cows' urine $\frac{1}{2}$ pint.

ALKALINE DRENCH FOR CALVES. Thin gruel 4 oz., Epsom salt $\frac{1}{2}$ oz., White's solution of potash one or two tea spoonful; mix; used to prevent diseases in calves. If the calf seems griped, add tincture of opium a tea spoonful, or anodyne carminative tincture a table spoonful.

PURGING DRENCH FOR SHEEP. Epsom or common salt 1 or 2 oz., water a pint, a drachm of aloes, a little ginger powder, and if the sheep appears in pain, tinct. of opium 3j may be added.

CLATER'S DRENCH FOR SHEEP. Nitre 6 oz., ginger powder 4 oz., colcothar 2 oz., common salt $3\frac{1}{2}$ lb., boiling water 3 gall., when cold add oil of turp. 36 oz.; dose 2 oz., if weakly only half, to be given once in four days for a fortnight.

PURGING DRENCH FOR DOGS. Gruel 4 oz., Epsom salt $\frac{1}{2}$ oz.; if the dog appears griped, add tinct. of opium 20 drops.—2. Castor oil 1 oz., to which tinct. of opium 20 drops may be added if necessary.

EMBROCATIONS FOR BRUISES. Soap liniment 5 oz., aqua ammoniæ 1 oz.; mix.—2. Soap liniment 3 oz., oil of turpentine 2 oz., camphire 1 oz.; mix.—3. Tinct. of cantharides 1 oz., camphorated spirit of wine 6 drachms, oil of origanum 2 drachms; mix.—4. Distilled vinegar 8 oz., spirit of wine 6 oz., sal ammoniac 1 oz.; dissolve.—5. Sugar of lead $\frac{1}{2}$ an oz., vinegar and water of each 8 oz.; dissolve.

SIMPLE EMULSION OF FARRIERS. Salad oil 2 oz., honey 3 oz., soft water 1 pint, salt of wormwood 2 drachms; mix.

PECTORAL EMULSION OF FARRIERS. Camphire one to two drachms, rubbed to a powder by adding a few drops of spirit of wine, oil of aniseseed 12 to 15 drops; simple emulsion 12 oz. to a pint; mix.

EYE-WATER FOR HORSES. Sugar of lead 2 drachms, vinegar 2 to 4 oz., soft water to fill up a pint bottle; dissolve.—2. White vitriol 1½ dr., oil of vitriol ½ a dr., water a pint; mix.—3. Sugar of lead 3 dr., white vitriol 4 scrup., water a pint; mix and strain.

LIQUID CAUSTIC FOR CANKER IN HORSES. Corros. sublim. powd. 1 dr., spirit of salt ½ an oz., spirit of wine and water of each 2 oz.; mix.

LIQUOR FOR FLY IN SHEEP. Bacc. lauri 1 oz., arsen. alb. ½ an oz., water 2 gall.; boil and strain.

ASTRINGENT LOTIONS. Muriate of iron 1 oz., water 8 oz.; mix.—2. Blue vitriol q. p. water just sufficient to dissolve.

LOTION FOR TENDER MOUTHED HORSES. Alum powdered 1 oz., honey 4 oz., infus. of roses a pint; to be used with a syringe.

ASTRINGENT LOTION FOR GREASE. Alum 1 oz., oil of vitriol 1 dr., water 1 pint; mix.—2. Alum 4 oz., blue vitriol ½ an oz., water 1 pint and a ½; mix.—3. Sugar of lead 4 oz., vinegar 6 oz., water 1 pint and a ½; mix. When the heels are very inflamed and irritable these lotions must be weakened by more water.—4. Corrosive sublimate 2 dr., spirit of salt 6 dr., water 1 pint; to be used when the discharge is very fetid.

LOTION FOR SADDLE GALLS OR WARBLERS. Distilled vinegar 3 oz., sugar of lead 3 dr., spirit of wine 4 oz., water 8 oz.; dissolve.—2. Sal ammoniac ½ an oz., spirit of salt 2 dr., water 8 to 12 oz., dissolve.—3. Soap liniment and liquor of acetated ammonia of each 2 oz.; mix.

SATURNINE LOTION FOR STRAINS. Ext. of lead 2 oz., vinegar and water of each 1 pint; mix.

LOTION FOR THE MANGE IN HORSES. Corrosive sublimate 1 dr., spirit of salt 3 dr., water 1 pint; mix.—2. Corrosive sublimate 1 dr., sal ammoniac ½ an oz., water 1 pint; mix.—3. White hellebore root 4 oz., boil in 3 pints of water to 2, strain, and add corrosive sublimate 2 dr., previously dissolved in spirit of salt 3 dr.

LOTION FOR MANGE IN COWS. Corrosive sublimate 2 dr., spirit of salt ½ an oz., water 1 pint; mix: useful in case the sulphur ointment will not do.

PERFUMES AND COSMETICS.

MILK OF ROSES. Kali ppi. gr. vj, ol. amygd. 1 oz., ess. Bergam. ʒij, aquæ rosæ 3 oz., aq. flor. aurant. ʒij, M.

2. Jordan almonds 8 oz., oil of almonds, Castile soap, white wax, ana ½ an oz., spermaceti ʒij, ol. lavand. Angl. ʒss, rose water ʒlb., S. V. R. 1lb., M.

3. Bitter almonds 8 oz., distilled water 6 oz., elder-flower water 4 oz., make an emulsion, and add ol. tart. p. deliq. ʒij, tinct. benz. ʒij. M.: used as a cosmetic wash.

French milk of roses. Rose water lb. jss, tinct. of benz., tinct. of storax, of each 1 oz., spirit of roses ʒij.

German milk of roses. Extr. Saturni ʒvj, spir. lavand. ʒj, aq. rosæ ʒvj, aq. font. ʒxviiij, cerussæ ʒss; mix.

Liquid soap, Lotio saponacea. Ol. olivæ ʒiv, ol. tartari p. del. ʒss, rub together, then add aq. rosar. ʒxij: cosmetic.

Eau d'ange bouillée. Rose water and orange flower water of each 3 pints, benzoin 1lb., storax 8 oz., cinnam. 1 oz., cloves $\frac{1}{2}$ an oz., a musk bag, calamus two or three sticks, boil away a pint and a half: boil a fresh parcel of water on the residuum, and add to the former.

Liquid rouge. The red liquid left in the preparation of carmine.

2. Dissolve carmine in subcarbonate of potash water, and dilute with more water.

3. Dissolve pure rouge in a mixture of alcohol and weak acetic acid.

Almond bloom. Brazil dust 1 oz., water 3 pints; boil, strain, add isinglass ʒvj, grana sylvestria 2 oz (or cochineal ʒij), alum 1 oz., borax ʒij; boil again and strain through a fine cloth.

Pink dye. Washed safflower ʒij, subc. of potash gr. xviiij, spirit of wine ʒvij, digest for two hours, add distilled water ʒij, digest for two hours more, add distilled vinegar or lemon juice q. s. to reduce it to a fine rose colour: used as a cosmetic, and to dye silk stockings.

FOR KITCHEN AND TABLE USE.

Pickle for meats. Brown sugar, bay salt, common salt, ana 2lb., saltpetre 8 oz., water 2 gall. Used to pickle meats, to which it gives a fine red colour, while the sugar renders them mild and of an excellent flavour.

Essence of anchovies. Anchovies 2lb. to 4lb. and a half, pulp through a fine hair sieve, boil the bones with common salt 7 oz. in water 6lb.: strain, add flour 7 oz., and the pulp of the fish; boil, pass the whole through the sieve, colour with bole to your fancy; it should produce 1 gallon.

2. Anchovies 5 double barrels, bay salt 2lb., brown salt 7lb., starch powder 3lb., powd. bole 1lb., Cayenne pepper 8 oz., water 20 gall.; produces 42 doz. and 6 pots.

3. Use young pilchards, which are richer than young herrings; and herring liquor, from the white or pickled herrings.

Quintessence of anchovy. Anchovies 1lb., pulp them through a sieve, add vinegar $1\frac{1}{2}$ oz., Cayenne pepper $\frac{1}{4}$ av. dram., and a roll of lemon peel.—2. Sherry, Madeira, or mushroom catsup may be used instead of vinegar.

Quin's sauce. Walnut pickle, Port wine, of each 1 pint, mushroom catsup 2 pints, anchovies, eschalots, of each 2 doz., soy $\frac{1}{2}$ pint, Cayenne pepper 2 av. drachms; boil gently for ten minutes; strain and bottle.

2. Soy 8lb., walnut catsup, mushroom catsup, of each 2 gall., sprats 8lb., Cayenne pepper 8 oz., garlic 1lb.

3. Distilled vinegar 1 gall., soy 1lb., allspice 8 oz.

4. Walnut pickle $\frac{1}{2}$ a pint, catsup $\frac{1}{2}$ a pint, anchovies No. 6, garlick 6 cloves, Cayenne pepper 3j.

Soy. Seeds of dolichos soja (peas or kidney beans may be used for them) 1 gall., boil till soft, add bruised wheat 1 gall., keep in a warm place for 24 hours, then add common salt 1 gall., water 2 gall., put the whole in a stone jar, bung it up for two or three months, shaking it very frequently, press out the liquor: the residuum may be treated afresh with water and salt, for soy of an inferior quality.

2. Strong purl boiled to a half, add red herrings, anchovies, Spanish liquorice, and garlick: when shaken it should leave a yellow brown colour on the sides of the vessel.

Lemon pickle. Lemon juice, vinegar of each 3 gall., ginger 1lb., allspice, pepper, grated lemon peel of each 8 oz., common salt 8lb. and a half, cloves, bird pepper of each 2 oz., mace, nutmegs of each 1 oz.—2. Lemons cut, No. 6, salt 1lb., garlick 6 cloves, horse radish scraped, mustard flour of each 2 oz., cloves, mace, nutmegs, Cayenne pepper, ana ʒij, vinegar 4lb.

Coratch. Mushroom catsup 6 lb., walnut catsup 1lb., Ind. soy, tchillié vinegar, of each 4 oz., ess. anch. 1 oz.

Tomato sauce. Bruised tomatoes 1 gall., salt 8 oz., in three days squeeze out the juice, to each half gall. of juice add shallots 4 oz., black pepper $\frac{1}{4}$ oz., boil for half an hour, strain, add mace, allspice, ginger, nutmegs, of each $\frac{1}{2}$ an oz., coriander seed and cochineal, of each $\frac{1}{4}$ of an oz., simmer gently for half an hour, strain, and when cold bottle.

Mushroom catsup. Sprinkle full-grown flaps gathered in September with salt, stir them often for two days, squeeze with a spoon only, to each pint of juice put whole black pepper $\frac{1}{2}$ an oz., heat in a close stopped stone jar set in a stewpan of boiling water

for two hours, strain, and to each pint add brandy $\frac{1}{2}$ an oz., let it stand till next day, again strain, and bottle; if any mouldiness appears boil up with half the quantity of whole black pepper; the grounds freed from the pepper serve to make mushroom powder.

—2. Mushroom juice 8 gall., pimento 8 oz., pepper 4 oz., cloves 4 oz., ginger 4 oz., shallots 12 oz., long pepper 2 oz., salt 4lb.; boil for an hour: strain and bottle.

Oyster catsup;—*Cockle catsup*;—*Muscle catsup*. Pound the fish, adding to each pint, Sherry wine a pint, salt 1 oz., powdered mace 2 av. drams., pepper 1 drachm; boil up, skim, strain, add to each pint brandy 2 tea spoonsful, then bottle: to flavour sauces when the fish are out of season.

Walnut catsup. Green walnut shells 6 half sieves or 16 gall., salt 3lb., beat together for a week, drain off the liquor: to 6 quarts, the general produce, add ginger, allspice, of each 4 oz., long pepper, cloves, of each 2 oz., boil for half an hour, cool and bottle, dividing the spices equally.

2. Juice of walnut shells 15 gall., salt half a bush., ginger, shallots, garlick, horse-radish, ana 3lb., ess. anch. 6 quarts.

3. Juice of young walnuts 1 gall., add anchovies 2lb., shallots 1lb., clove, mace, black pepper, ana 1 oz., and a clove of garlick, boil a little, and bottle.

4. Walnut juice 6 gall., vinegar 12 pints, sprats 24lb., pimento 1lb., ginger 2 oz., long pepper 3 oz., cloves 6 oz., shallots 12 oz.; boil, and bottle.

Kitchiner's relish. Ground black pepper, salt, of each 1 oz., ground allspice, scraped horse-radish, minced shallots, of each $\frac{1}{2}$ an oz., walnut pickle 1 pint; steep fourteen days and strain.—
2. Use mushroom catsup instead of walnut pickle.

Sauce superlative. Port wine, mushroom catsup, of each 2 pints, walnut pickle 1 pint, anchovies pounded $\frac{1}{2}$ lb., lemon peel, minced shallots, scraped horse-radish, of each 2 oz., allspice, black pepper powdered, of each 1 oz. Cayenne pepper 2 av. drachms, or curry powder 6 av. drachms, bruised celery seed 2 av. drachms; steep fourteen days, and strain.

Kitchiner's double relish. Sauce superlative 4 pints, add $\frac{1}{2}$ a pint of soy or thick browning.

Essence of turtle. Essence of anchovy 2 oz., meas. shallot wine 3 oz., basil wine 8 oz., mushroom catsup 4 oz., citric acid 1 av. drachm, thin paired lemon peel $\frac{3}{4}$ oz., curry powder $\frac{1}{4}$ oz., steep for a week: used to give the flavour of turtle to soups and the like.

Fish sauce. Port wine 1 gall., mountain 2 pints, walnut

catsup 4 pints, anchovies and liquor 2 lb., lemons No. 8, shallots 3 doz., Cayenne pepper q. p. scraped horse-radish root 2 lb., mace 1 oz., flour of mustard 8 oz.; boil up gently, strain and bottle.

2. Anchovies No. 24, shallots No. 10, horse-radish root scraped 3 spoonful, mace, cloves, of each 5ij, lemons sliced No. 2, anchovy liquor 8 oz., Hock or Rhenish wine 2 lb., water 1 lb., boil to 2 lb., strain, add walnut catsup 6 oz., and bottle.

Browning. White sugar in powder 2 lb., fresh butter 8 oz., fry gently until of a fine dark brown, add by degrees strong purl 1 gall., then put Jamaica and black pepper, of each 4 oz., shallots 6 oz., mace 1 oz., catsup 3 lb., salt at pleasure, peel of 8 lemons, boil gently, when cold skim and bottle the clear: used to colour and flavour animal food.

Whey, Serum lactis. Cows' milk lb. jss, crem. tart. $\frac{1}{2}$ an oz., boil the milk, add the salt, and strain.

Wine whey, Ser. lactis vinosum. Cows' milk lb. ij, spring water lb. j; boil, and add white wine half a pint.

Clarified whey, Ser. lactis clarificatum. Cows' milk 6 pints, rennet q. s.; let it stand in a warm place for some hours, strain, add the whites of 3 eggs, and cream of tartar half a drachm; boil and filter through paper.

Lemonade for icing;—Orangeade for icing. Rub off the yellow peel of 3 or 4 fruits with hard loaf sugar 1 oz., add sugar 4 oz., water 2 pints; cut the fruits in half, and squeeze the juice into the syrup: ice as wanted.

Strawberry water for icing;—Raspberry water for icing;—Berry water for icing. To every 5 oz. of the fruit rubbed gently in a mortar to avoid breaking the kernels add water 2 pints, and after some time sugar 5 oz., strain, squeezing the grounds, and keep cool in ice till used: ice as wanted.

Gooseberry water for icing. To each lb. and a half of fruit add sugar 6 oz., and water 2 pints, sometimes 4 oz. of the gooseberries are taken out and replaced by as much strawberries: ice as wanted.

Cherry water for icing. Stone the fruit, crack the stones, rub the kernels in a cloth to get off the rough-flavoured skin; to each lb. and a half of juice, flesh, and kernels, add sugar 6 oz., water 2 pints, and strain: ice as wanted.

Verjuice water for icing. Choose the largest, juiciest, and best flavoured unripe grapes, stone them, to each 20 oz. of fruit rubbed down add sugar 6 oz., water 2 pints, milk 1 table spoonful, strain; spices may be added at pleasure: ice as wanted.

Lemonade, Lemon sherbet. White sugar 5 oz., flavoured by rubbing off the yellow peel of a lemon, dissolve in 2 pints of

spring water, add juice of three lemons: apt in hot countries to produce cholera.—*Orange Sherbet.* Use oranges for lemons; more wholesome than lemonade.

Tea punch. Hot tea 2 pints, arrack $\frac{1}{2}$ a bottle, about $13\frac{1}{2}$ oz., white sugar 4 oz., flavoured by rubbing off the yellow peel of 4 lemons, add juice of 8 lemons.

Wine punch. Arrack 2 pints, juice of 12 lemons, white sugar 1 lb., hot tea 6 pints, Port wine 2 pints.

2. White sugar $\frac{1}{4}$ lb., flavoured by rubbing off the yellow peel of 3 lemons, Port wine 1 gall., boil, adding at the end cinnamon $\frac{1}{2}$ an oz., strain, add arrack 1 pint, and juice of 9 lemons.

Cold punch. Arrack, Port wine, and water, of each 2 pints, juice of 8 lemons, white sugar 1 lb.

Iced punch. Champagne wine, or Rhenish wine, 2 pints, arrack 1 pint, juice of 6 lemons, white sugar 1 lb., flavoured by rubbing off the yellow peel of 6 lemons; ice as cream.

USED IN THE ARTS.

Refined ox gall, Fel bovis purificatum. Fresh ox gall. 1 lb.; boil, skim, add alum 1 oz., and keep it on the fire for some time; to another pint add common salt 1 oz., in the same manner; keep them bottled up for three months, then decant off the clear: mix them in an equal proportion; a thick yellow coagulum is immediately formed, leaving the refined gall clear and colourless: used by limners, enabling them to lay several successive coats of colours upon drawings, to fix chalk and pencil drawings so that they may be tinted, to remove the greasiness of ivory, and even allowing them to paint with water colours upon oiled paper or satin.

Liquid pounce. Subcarb. of soda 1 oz., water a pint; colour with syr. rhamni 3 ij, or a little sap green. If potash is used instead of soda the ink will spread.

Marking ink. Lunar caustic 3 ij, distilled water 3 vj; dissolve and add gum water 3 ij: wet the linen where you intend to write with liquid pounce, dry it, and then write upon it with a clean pen.

Saxon blue, Liquid blue. Indigo 1 lb., oil of vitriol 4 lb.; dissolve, by keeping the bottle in boiling water, then add water 12 lb., or q. p.

Chemical, Sulphate of indigo. Indigo 1 lb., oil of vitriol perfectly free from nitrous gas 9 lb.: used in dyeing greens.

Solution of indigo. Rub Guatimala flora indigo 3 j with rectified oil of vitriol 3 iv, dilute with water 3 iij; add whiting to neutralize the acid, and filter the liquid: used to measure the discolouring power of chlorine and chloride of lime.

LIQUID COLOURS.

Lacca fluida. Gamboge, dissolve in water with gum Arabic and alum; yellow; used for colouring maps, writing, and staining paper.—2. Steep French berries in water, strain, add gum Arabic and alum; yellow.—3. Steep round zedoary in spirit of wine; clear yellow.—4. Steep turmeric in spirit of wine; deep yellow; both are used for artificial flowers.—5. Steep Brazil chips in vinegar, add alum; red.—6. Dissolve litmus in water, to 5 oz., meas. add 2 of spirit of wine; red.—7. Steep cochineal in water, strain, add alum and gum Arabic; red.—8. Dissolve carmine in subcarbonate of potash water; red.—9. Dilute Saxon blue with water; blue.—10. Add distilled vinegar to the solution of litmus till the proper blue colour is obtained.—11. Steep litmus in water, strain; purple.—12. Dissolve crystallized verdigris in water, and add gum; green.—13. Dissolve sap green in water, and add alum; green.—14. Render the solution of litmus green by adding subcarbonate of potash to its solution.—15. Crystallized verdigris, cream of tartar, of each 4 oz., dissolve in water, add gum Arabic; green.

Colours for show bottles.—*Yellow.* Dissolve iron in spirit of salt and dilute.—*Red.* Spirit of hartshorn q. p. dilute with water and tinge with cochineal.—2. Dissolve sal ammoniac in water and tinge with cochineal.—*Blue.* Blue vitriol, alum, ana 2 oz., water 2 lb., spirit of vitriol q. s.—2. Blue vitriol 4 oz., water 3 lb.—*Green.* Rough verdigris 3 oz., dissolve in spirit of vitriol, and add water 4 lb.—2. Add distilled verdigris and blue vitriol to a strong decoction of turmeric.—*Purple.* Verdigris 3 ij, spirit of hartshorn 4 oz., water 1½ lb.—1. Sugar of lead 1 oz., cochineal ʒ j, water q. p.—3. Add a little spirit of hartshorn to an infusion of logwood.

Boot-top liquid. Sour milk 3 lb., oil of vitriol 2 oz., compound tincture of lavender 3 oz., gum Arab. 1 oz., lemon juice 2 oz., white of 2 eggs. M.—2. Sour milk 3 lb., spirit of salt, spirit of vitriol, ana 2 oz., compound tincture of lavender 1 oz. M.—3. Sour milk 3 pints, butter of antimony, cream of tartar, ana 2 oz., citric acid, burnt alum, common alum, ana 1 oz.

Blacking. Lamp black 6 lb., sugar 6 lb. dissolved in water 2 lb., sperm oil 1 lb., gum Arabic 3 oz. dissolved in vinegar 2 lb., vinegar 3 gall., oil of vitriol 1 lb. and a half: mix.—2. Bone black, common treacle, ana 12 oz., sperm oil, oil of vitriol, ana 3 oz., vinegar No. 18, 4 pints: mix.—3. Bone black, treacle, ana 2 lb., neat's foot oil 8 oz., oil of vitriol 1 oz., gum tragacanth 2 oz., vinegar 6 pints: mix.—4. Bone black 6 lb., vinegar, water, ana 9 gall., treacle 8 lb., oil of vitriol 1 lb.—5. Bone black 1 oz.,

small beer or water 1 lb., brown sugar, gum Arabic, ana half an oz., or, if required to be very shining, the white of an egg.—6. Bone black 4 oz., treacle 8 oz., vinegar 1 lb. : used to black leather.

Water-proof liquor. Roche alum 4 oz., sugar of lead 3 ij, powd. gum Arab. 3 j, water 8 oz. : used for soles of shoes.

Nankeen dye. Arnotto, subc. of potash, ana p. æq. boiled in water : the proportion of subcarb. is altered as the colour is required to be deeper or lighter : used to restore the colour of faded nankeen clothing.

Black ink, Atramentum. Galls in sorts 2 lb., logwood, green vitriol, ana 1 lb., water 8 lb., gum Arabic q. p. : very good.—2. Bruised galls 1 lb., green vitriol 8 oz., gum Arabic 4 oz., water 2 gall., for common sale.

Patent ink. Logwood shavings, powdered galls, ana 2 lb., pomegranate bark 4 oz., green vitriol 1 lb., gum Arabic common 8 oz., water 1 gall.

Ink used in the Prerogative office. Galls 1 lb., gum Arab. 6 oz., alum 2 oz., green vitriol 7 oz., kino 3 oz., logwood in powder 4 oz., water 1 gall. Used for writing, but is destroyed by acids and even by age; its restoration may be attempted by wetting the place with an infusion of galls, or with the solution of alkali calcined with blood, as in making Prussian blue, alternately with diluted muriatic acid.

Japan ink. Dry the green vitriol by heating it until yellow, or sprinkle it with a little nitric acid; this renders the ink of a full blackness immediately on being mixed.

Marking ink, Boues d'encre The sediment left on making ink : used by the packers for marking.

Solution of picromel. To bullock's gall add a solution of sugar of lead, as long as any sediment falls; filter, add subacetate of lead; wash the sediment, dissolve in weak acetic acid, and pass through the solution hydro-sulphuric acid gas; filter, and evaporate the liquor nearly to dryness, redissolve in water, and add a small quantity of strong alcohol to make it keep: used to distinguish the acetate of lead from the subacetate of lead.

Solution of alcoholic extract of malva sylvestris. Dry the petals of the wild mallow, steep them in alcohol at 40 deg. Baume: distil off the alcohol, and dissolve the extract left in water: the deep purplish violet solution is used as a test for acids and alkalies, and to stain test papers for the same purpose: it is discoloured by the sulphites and sulphurets of the alkalies, which renders it very useful in assaying kelp and barilla ashes.

Brine of red cabbage.—Brine of violets. Steep red cabbage, or

the petals of blue violets, in a strong solution of salt: used as a test for acids and alkalies.

Sol. of hematine. Steep powdered logwood in water, temp. 120 to 130 deg. Fahr. for about 6 hours, filter, evaporate to dryness, steep the extract in alcohol for 24 hours, filter, evaporate till thick, add water, leave it to dry of itself, the hematine will crystallize: wash the crystals with spirit of wine, and dissolve them in water: used to distinguish the various acids and alkalies by the different shades.

IMPREGNATED WINES.

Although some of the wines are obscurely ordered by their mere colour and country, of which, however, many sorts are sold; yet this is of less consequence, as the retailers usually employ raisin or currant wine instead of more expensive foreign ones. The P. L. 1745 was the only one that determined the exact sorts the college wished to have employed, until 1809, when the college rejected all wine but Sherry, to which alone they restricted the generic term of vinum, as the Pharmacopœia of the United States has restricted the term *vinum* to Teneriffe. In the present Pharmacopœia they have changed all the wines into weak tinctures, but left their names unaltered.

FOR MEDICINE.

WINE OF ALOES, *Tinctura hieræ*. Spec. hieræ picræ ʒj, white wine lb. j: digest.

TINCTURA SACRA. Aloes ʒviiij, canell. alb. ʒij, white wine lb. x; digest: use white sand to divide the aloes, and prevent its clogging.

VINUM ALOES. P. L. before 1824. Aloes ʒviiij, white sand q. s., canell. alb. ʒij, Sherry lb. vj, proof spirits lb. ij: dig. 14 days.

VINUM ALOES SOCOTRINÆ. Soc. aloes ʒj, cardam. min., ging. ana ʒj, white wine lb. ij: digest 7 days.

ELIXIR PROPRIETATIS HELMONTII, *Vinum aloeticum alkalinum*. Aloes Socotr., croci, myrrh. ana ʒj, sal ammon. ʒvj, kall pp. ʒviiij, white lb. ij: digest 7 days.—Helmont's original process was more complicated; some put in only croc. ʒij: stomachic ʒj to ʒiiij, bis terve die; in larger doses to ʒjss, purgative.

ANTIMONIAL WINE, *V. benedictum*, *V. antimoniale*. Croc. metallor ʒj, mountain lb. jss: digest, strain.

VINUM ANTIMONII. Vit. antim. ʒj, Sherry lb. jss.

VINUM ANTIMONII TARTARISATI, P. L. 1788. Tart. emetic. ʒij, aq. dist. ferv. ʒij, Sherry ʒviiij.

LIQUOR ANTIMONII TARTARIZATI. Tart. emetic ℥j, aq. dist. ferv. ℥iv; dissolve and add Sherry ℥vj.

VINUM TARTRITIS ANTIMONII. Tart. emetic gr. xxiv, Sherry lb. j; dissolve: emetic, but uncertain ℥ss to ℥j; alterative ℥ss to ℥jss.

TINCTURA CROCI VINOSA, V. croceum. Croci ℥j, Canary wine lb. j; digest without heat 6 days and strain; cordial ℥j to ℥ij.

VINUM MARTIANUM. (Ph. Pruss.) Iron filings 2 parts, cinnam. 1, Rhenish wine 24; doses ℥ij to ℥ss.

STEEL WINE, Vinum Chalybeatum, P. L. 1720. Limat. ferri ℥j, croci ℥ij, white wine lb. j; digest 3 days and strain.

VINUM CHALYBEATUM, P. L. 1745. Limat. ferri ℥iiij, cinnam., macis, ana ℥ss, Rhenish wine lb. iiij; digest one month.

VINUM FERRI, P. L. 1788. Limat. ferri ℥ij, Sherry lb. ij; digest one month.

VINUM FERRI, P. D. Fer. fil. ℥iv, Rhenish lb. iiij; digest 7 days: tonic, astringent, ℥ij to ℥vj, bis terve die.

WINE BITTERS, V. amarum. Rad. gentian. flav., cort. limon. recent. ana ℥j, piper. long. ℥ij, mountain lb. ij; digest.

VINUM GENTIANÆ COMPOSITUM. Rad. gen. ℥ss, cort. Peruv. ℥j, cort. aurant. sicc. ℥ij, canell. alb. ℥j, proof spir. ℥iiij, Malaga lb. ijss; digest 7 days.

2. Gentian 1lb. orange peel 10 oz., cardam. 4 oz. cinnam. 4 oz., currant wine 3 gall. and a half; tonic, stomachic, ℥ij to ℥vj or more.

VINUM CINCHONÆ. (Ph. Par.) Peruvian bark 1 part, alcohol 2, claret 12; dose ℥ij to ℥iv.

VINUM CINCHONÆ COMP. (Ph. Par.) Peruvian bark 123, quassi, Winter's bark, and rind of bitter oranges, ana 8; alcohol 250, wine 1500.

VINUM AMARUM. (Ph. Batav.) Peruvian Bark 8, Gentian 4, orange peel 2, canella alba 1, alcohol 32, Spanish wine 384.

VINUM ANTISCORBUTICUM. (Ph. Par.) Horse radish 4 parts, scurvy-grass, water-cress, mustard, buck-bean, ana 2, muriate of ammonia 1, white wine 125, spirit of scurvy-grass 12; dose ℥j to ℥ss.

VINUM ENULÆ CAMPANÆ. (Ph. Pruss.) Elecampane wine. Elecampane ℥j, red wine lb. ij; doses ℥ij to ℥iv.

VINUM HELLEBORATUM, P. L. 1680. Rad. helleb. albi ℥iv., Sherry lb. ij; anti-arthritic, ℥j to ℥iiij.

TINCTURA THEBAICA, P. L. Opii colati ʒij, cinnam., caryoph. ana ʒij, white wine lb. j; digest a week; the same strength.

VINUM OPII, P. L. 1809. Extract opii ʒj, cinnam. caryoph. ana ʒj, Sherry lb. j; digest 8 days: only half the strength of the former; anodyne, narcotic, gtt. v. to lxviiij or more.

RHUBARB WINE, *Tinctura rhabarbari vinosa.* Rhabarb. ʒij, cardam. minor. ʒss, croci ʒij, Mountain lb. ij: digest.

VINUM RHABARBARI. Rhabarb. ʒijss, cardam. min. ʒss, croci ʒij, Spanish white wine lb. ij, proof spir. ʒviiiij.

VINUM RHEI PALMATI. Rhabarb. ʒij, canell. alb. ʒj, proof spir. ʒij, white wine ʒxv; digest 7 days: laxative, tonic, ʒss to ʒjss. The saffron is frequently omitted.

VINUM AMARUM. (M. Dubois.) Vini alb. Madeirensis lb. xviiij, cinchonæ ʒviiij, canellæ albæ ʒjss; baccæ juniperi, cort. citri medicæ, cort. Winterani, āā ʒix, carbon sodæ ʒivss.

WINE OF SQUILLS, *Vinum scilliticum.* Rad. scill. alb. lb. j, old French white wine 1 gall.: digest 14 days: emetic in a large dose, expectorant in small doses.

VINUM SCILLITICUM COMP. White wine lb. jss, oxymel of squills ʒij, squill roots ʒj, rind of oranges and calamus aromaticus, āā ʒij; digest for 3 days, then add of oxymel of squills ʒij: doses ʒij to ʒss.

VINUM NICOTIANÆ TABACI. Fol. tabaci sicc. ʒj, white wine ʒxij; digest 7 days: antispasmodic, diuretic, gtt. x to xxx.

VIPER WINE, *Vinum viperinum,* P. L. before 1745. Viperæ sicc. No. 6, Spanish wine lb. ij: digest 3 days.

VINUM VIPERINUM, P. L. since 1745. Vip. sicc. ʒij, Mountain lb. iiij; digest for a week: restorative, stimulant.

VINUM RADICUM COLCHICI. Rad. colch. sicc. ʒij, zin. alb. Hisp. lb. ij; infuse, filter, and add S. V. R. ʒij; used in gout, gtt. xx. at night.

VINUM FLORUM COLCHICI. Flor. colch. ʒij, vini albi Hisp. lb. j.

VINUM SEMINUM COLCHICI. Sem. colch. sicc. ʒij, vin. albi. Hisp. lb. j; infuse for 10 days, and filter: ʒss. to ʒij, bis in die, in rheumatism.

WINE OF CINCHONINE. Sulphate of cinchonine gr. xviii, Madeira (or other) wine lb. ij.

2 Wine lb. ij, tincture of cinchonine ʒij; febrifuge.

WINE OF QUININE. Sulphate of quinine gr. vj, Madeira wine lb. j; Malaga or any other wine may be used.

2. Wine lb. j, tincture of quinine ʒij.

FOR THE TABLE AND KITCHEN.

Yellow essence of orange. Orange peel, S. V. R., and water, ana 6 oz.; digest, strain, and add Sherry wine 2 pints.

Basil wine. Float the green leaves (which are in perfection the middle of August) with Sherry wine, steep for 10 days, then strain: gives the turtle flavour to soup, and even to turtle itself. Celery leaves, and the dried leaves of other sweet herbs, may also be used to flavour wine, for those with whom acids do not agree.

Cayenne wine. Cayenne pepper 1 oz., Sherry 1 pint; steep 14 days, and strain.

Currie wine. Currie powder 6 oz., Sherry wine 1 gall.; infuse 10 days, strain.

Shallot wine. Shallots 3 oz., peel and pound to a pulp, Sherry wine 1 pint; steep for 10 ten days, strain, add 3 oz. more shallot pulp, steep again, and strain for use. The best preparation for giving the shallot flavour, as it is not apt to rise.

Ragout wine. Ragout spice 6 oz., Sherry wine 1 gall.; steep 10 days.

IMPREGNATED VINEGARS.

FOR MEDICINE.

Acetum opii sedativum, introduced by Mr. Horne as a succedaneum for the liquor opii sedativus of Mr. Battley. The following is Mr. Horne's formula for his sedative—"Take three times the quantity of the best opium, reduced to fine powder, that is ordered by the London pharmacopœia for two pints of tincture: add to the opium two pints of dilute acetic acid. After they have digested a few hours, add six or eight pints of rectified spirits of wine. Macerate about seven days, and then carefully filter, in order to separate the insoluble parts of the opium; then introduce the liquor into a retort, accurately closed, and distil off the spirit. The product in the retort, after the spirit has all passed over, is the required acetum opii sedativum. If the distillation be carefully conducted, the result will always prove of uniform strength. One minim will be equivalent to three of the tincture

of opium, free from spirit, and it will keep without changing for an indefinite time.”

SQUILL VINEGAR, *Acetum scilliticum*, P. L. before 1745. Rad. scill. sic. lb. j, aceti lb. vj; bottle up and expose to the sun for a month.

A. scilliticum, P. L. 1788. *A. scillæ*. Scill. sic. lb. j, aceti lb. vj, proof spirit lb. ss.

A. scillæ maritimæ. Rad. scillæ sic. ʒij, acet. dist. lb. ijss, S. V. R. ʒiij; expectorant, diuretic, ʒss to ʒj.—2. Use common vinegar.

ACETUM COLCHICI. Rad. colchici ʒj, acet. distil. lb. j; digest for three days, and express, add proof spirit ʒj; diuretic, ʒss to ʒj, bis die.

COMMON BLACK DROP, *Guttæ nigra*. Opium 8 oz., distilled vinegar ʒ lb.; infuse; milder than tincture of opium.

BATTLE'S LIQUOR OPII SEDATIVUS. This is supposed to be a solution of opium in vinegar; it will not keep without an addition of spirit of wine, but this takes away the mildness of its action.

ACETATE OF SOLANINE. Dissolve solanine in acetic acid; emetic, in quarter grain doses.

VINEGAR OF THE FOUR THIEVES, *Acetum theriacale*, *A. prophylacticum*. Summit. rorismar. sic., fol. salviæ sic. ana ʒiiij, flor. lavand. sic. ʒij, caryophyll. ʒj, acet. dist. 1 gall.: digest for seven days, press, and filter: used as a corrector of bad smells: sometimes garlick is added.

AROMATIC SPIRIT OF VINEGAR, *Acetum aromaticum*, *Acidum aceticum camphoratum*, *A. acetosum camphoratum*. Acid. acetos. fort. ʒvj, camph. ʒss, reduced to powder by S. V. R. q. s.

ACET. AROM. FORTE. Strong acetous acid (No. 4) ʒlb. and a half, camphire ʒ oz., ol. carph. ver. ʒij, S. V. R. 8 oz. M.

EXTEMPORANEOUS AROMATIC VINEGAR. Acet. potassæ ʒj, ess. lim. gtt. iij, ol. vitrioli gtt. xx.

ACETUM OPII. (*Ph. U. S. et Dr. Paris*). *Black drop*. Opium lb. ss, vinegar, or verjuice, O iij, nutmeg ʒjss, saffron ʒss: boil down to a proper consistence, and add sugar ʒiv, yeast ʒj.

ACETUM RUTÆ, *Rue vinegar*. (*Ph. Pruss. et Aust.*) Rue 1, vinegar 8; dose ʒss to ʒj in an enema.

ACETUM BERLINENSE. White wine vinegar lb. vj, roots of angelica, valerian, and mint, of each ʒ ss, camomile flowers, juniper berries, and laurel berries, of each ʒ ss, saffron and camphor, of each ʒj: digest and filter. In diseases of debility, in doses of 1 or 2 drachms.

SPIELMAN'S CAMPHORATED VINEGAR. Camphor ʒj, powder with xx gtt. of alcohol, and then triturate, with ʒij of sugar, and add ʒx of white wine vinegar; shake until all is dissolved: dose ʒij to ʒss.

FOR PERFUMERY AND COSMETICS.

Vinaigre rosat, Acetum rosatum. Petal. ros. rubr. sicc. lb. j, acet. apot. lb. xij; infuse eight days, strain, and repeat the infusion with fresh roses.

Vinaigre de rosmarin, Acetum anthosatum. From rosemary flowers, as the vinaigre rosat.

Vinaigre distille de lavande. From the flowering tops by infusing them in vinegar, and then distilling 3-4ths.

2. Vinegar, distilled in glass lb. j, oil of lavender q. p. M. Many other vinegars of this kind may be made from odoriferous plants or their oils; they are used as cooling odoriferous cosmetics.

Vinaigre dentifrique. Rad. pyrethri ʒij, cinnam., caryoph., guaiac. ana ʒij, spirit. cochlear. ʒij, aq. vulner. rubr. ʒiv, acet. opt. alb. lb. iiij; used to wash the mouth in tooth-ache, or carious teeth, either by itself or diluted.

FOR KITCHEN AND TABLE USE.

Cucumber vinegar.—*Capsicum vinegar.*—*Garlick vinegar.*—*Shallot vinegar.*—*Onion vinegar.*—*Caper vinegar.*—*Cress seed vinegar.*—*Celery seed vinegar.*—*Truffle vinegar.*—*Seville orange-peel vinegar.*—*Ginger vinegar.*—*Black pepper vinegar.*—*White pepper vinegar.*—*Chillie vinegar.*—*Horse-radish vinegar.* Are all made by steeping about an oz. of the articles in each pint of vinegar for fourteen days, and straining.

Tarragon vinegar.—*Basil vinegar.*—*Green mint vinegar.*—*Elder flower vinegar.*—*Celery vinegar.*—*Cherville vinegar.*—*Burnet vinegar.* Float the leaves with vinegar, steep for fourteen days, then strain, and keep in half-pint bottles.

Currie vinegar. Currie powder 6 oz., vinegar 1 gall.; infuse ten days, strain. The French vinaigriers make no less than sixty-five sorts of different flavoured vinegars.

Compound horse-radish vinegar. Scraped horse-radish gathered in November 3 oz., minced shallots 1 oz., Cayenne pepper 1 av. drachm, vinegar 2 pints, steep for a week, and strain: black pepper, mustard seed bruised, celery seed, and cress seed may be added.

Camp ginger. Garlick sliced 8 oz., Cayenne pepper, soy, walnut catsup, of each 4 oz., anchovies chopped No. 36, vinegar 1

gall., cochineal suff. to colour it a deep red; infuse six weeks, then strain.

2. Cayenne pepper 1 av. drachm, soy 4 oz., measures, walnut catsup 8 oz., 6 chopped anchovies, garlick minced fine 1 clove, vinegar 1 pint, steep for a month, strain for use.

Parmentier's salad vinegar. Dried tarragon, savory, chives, shallots, 3 oz. of each, tops of dried mint and of balm a handful each, vinegar 1 gall., steep for a fortnight in a warm place, strain and squeeze.

Ragout vinegar. Ragout spice 3 oz., vinegar 1 gall., steep ten days.

Raspberry vinegar. Red raspberries $1\frac{1}{2}$ pint, white wine vinegar 3 pints, steep for a day and night, strain, add fresh raspberries, and do so a third time: to each pint add white sugar 1 lb.; boil, skim, when cold add to each pint brandy 2 oz.

Raspberry sherbet. Raspberry vinegar 1 oz., water 8 oz.; mix; an agreeable summer drink.

Artificial lemon juice. Pyrolignous acid 1 pint, white sugar $\frac{3}{4}$ oz.; dissolve, and add quintessence of lemon peel 30 drops.

USED IN THE ARTS.

Black reviver. Galls 3 oz., logwood, green vitriol, iron filings, sumach, ana 1 oz., vinegar 2 pints.

Red ink. Lign. Brazil 8 oz., vinegar 10 pints, boil to a half, and add roche alum 8 oz.

2. Stale beer 1 pint, coccin. ζj , gum Arab. 1 oz., Brazil wood, roche alum, of each 2 oz.

A M M O N I A T A.

FOR MEDICINES.

SPIRITUS SALIS AMMONIACI DULCIS, *Sp. ammoniacæ*, P. L. 1788 and 1815. Sal ammoniac $\zeta i v$, pearlash $\bar{\zeta} v j$, proof spr. lb. $i i j$; mix and distil lb. $j s s$. P. D. draws off lb. $i j$. Stimulant, antispasmodic, in fainting and nervous debility. Dose $\zeta s s$ to ζi in water.—*Officinal preparation.* Spir. ammon. aromat. and spir. ammon. foetid. L. E. D.

SP. AMMONIÆ, P. L. 1809. Liqueur ammoniæ lb. j , S. V. R. lb. $i j$; M.

ALCOHOL AMMONIATUM. Lime $\zeta x i j$, water $\zeta v j$, slake, when cold add sal ammon. $\zeta v i i j$; distil into S. V. R. $\zeta x x x i j$.

SAL VOLATILE DROPS, *Sp. salis volatilis oleosus*. Cinnam. $\bar{\zeta} i j$,

macis ʒss, caryoph. ʒj, cort. citri ʒss, sal ammon. ʒ jss, kali ppi. ʒiv, S. V. R. ʒxij; mix and distil.

SP. VOLATILIS AROMATICUS. Spir. sal. ammon. dulc. lb. ij, essen. limon., ol. dist. nucis mosch. ana ʒij, ol. dist. caryoph. arom. ʒss; distil.

SP. AMMONIÆ COMPOSITUS, P. L. 1788. Spir. sal. ammon. dulc. lb. ij, ess. limon., ol. dist. nuc. mosch. ana ʒij; mix.

SP. AMMONIÆ COMPOSITUS, P. L. 1809. Spir. ammon. lb. ij, ess. limon., ol. dist. caryoph. ana ʒij; mix.

SP. AMMONIÆ AROMATICUS, P. L. 1815. Cinnam., caryoph. ana ʒij, cort. limon. ʒiv, kali pp. lb. ss, sal. ammon. ʒv, S. V. R. lb. v. aquæ cong. j; distil. lb. vj. Stimulant, diaphoretic; used in the same cases as spir. ammoniæ. Dose the same.—*Official preparation.* Tinct. guaiaci ammoniat. and tinct. valerian. ammoniat. L. D.

SP. AMMONIÆ AROMATICUS, P. L. Spir. ammon. lb. ij, ess. amon. ʒij, nuc. mosch. contus. ʒss; digest for three days and distil lb. jss.

ALCOHOL AMMONIATUM AROMATICUM, *T. aromatica ammoniata.* Alcohol ammon. ʒviiij, ol. dist. rorismarini ʒjss, ess. limon. ʒj; dissolve: stimulant, diaphoretic ʒss to ʒj.

SAL VOLATILE DROPS. Olea mixta ʒij, sal. vol. ammon. 20 oz., S. V. R. 2 gall.; draw off 18 or 19 pints.

FIT DROPS, *Sp. volatilis foetidus, Sp. ammoniæ foetidus*, P. L. 1788. Sal. ammon. lb. j, kali pp. lb. jss, proof spir. lb. vj, assæfoetidæ ʒiv; distil lb. v.

2. Spir. ammoniæ lb. j, tinct. assæfoet. ʒss; mix.

3. Sal ammoniæ 1lb., potash 2lb., gum foetid. 6 oz., S. V. R. 1 gall., water q. s., distil 10 pints; antispasmodic, in hysteric disorders.

SP. AMMONIÆ FÆTIDUS, P. L. 1809, P. D. *Alcohol ammoniatum foetidum, T. assæfoetidæ ammoniata.* Spir. ammoniæ lb. ij, assæfoet. ʒij (P. D. ʒj ʒij); digest and distil lb. jss (P. E. lb. ij). Stimulant, antispasmodic; useful in hysteria, spasmodic asthma; dose ʒss to ʒi, in water.

T. CORTICIS PERUVIANI VOLATILIS. Cort. Peruv. ʒiv, sp. sal. amm. lb. ij; steep and strain.

T. CINCHONÆ AMMONIATA. Cort. Peruv. ʒ iv, spir. ammon. lb. ij; steep ten days; stimulant, tonic, ʒ ss to ʒ ij.

SP. COLCHICI AMMONIATUS. Colchici sem. cont. ʒ ij, spir. ammon. arom. O j; digest and strain.

VOLATILE TINCTURE OF GUAYAC, *T. guaiacina volatilis.* Gum.

guaiaci $\bar{3}$ iv, spir. volatilis aromat. lb. jss; digest fourteen days; stimulant, diaphoretic, in rheumatism, $\bar{3}$ ss to $\bar{3}$ ij, bis die.

T. GUAIACI, P. L. 1788. Gum. guaiaci $\bar{3}$ iv, sp. ammon. comp. lb. jss.

T. GUAIACI AMMONIATA. Tinct. guaiaci $\bar{3}$ iv, sp. amm. aromaticus lb. jss.

T. VALERIANÆ VOLATILIS. Rad. valer. offic., spir. volatilis arom. lb. ij; digest; to give a sweet scent to a solvent intended for a foetid plant seems a mistake.

T. VALERIANÆ AMMONIATA, P. L. Rad. valer. $\bar{3}$ iv, sp. am. arom. lb. ij; stimulant, antispasmodic; useful in nervous and spasmodic affections; dose $\bar{3}$ ss to $\bar{3}$ i; in some bland fluid.

2. Rad. valer. 1 lb., spir. corn. cervi 7 lb., S. V. R. 1 lb.; digest; antispasmodic, $\bar{3}$ j to $\bar{3}$ ij.

T. FÆTIDA VOLATILIS. Assæfoetidæ $\bar{3}$ iv, spir. ammon. lb. ij.

T. VALERIANÆ AMMONIATA, P. D. Rad. valer. $\bar{3}$ iv, spir. ammon. lb. ij; digest.

OIL AND HARTSHORN, *Linimentum volatile*. Aq. amm. carb. $\bar{3}$ ij, ol. amydg. $\bar{3}$ j; mix.

LIN. AMMONIÆ, P. L. *L. ammoniæ carbonatis*, *L. ammoniæ subcarbonatis*. Aq. ammon. carb. $\bar{3}$ ss, ol. olivæ $\bar{3}$ jss, M.

Lin. ammoniæ fortius. Aq. ammon. puræ $\bar{3}$ j, ol. oliv. $\bar{3}$ ij, M.; stimulant, rubefacient, in cynanche tonsillaris, spread on a piece of flannel, and applied round the throat; a larger proportion of oil is added where the skin is very irritable.

Lin. ammoniæ, P. D. *Oleum ammoniatum*. Aq. ammon. puræ $\bar{3}$ ij, ol. oliv. $\bar{3}$ ij, M.

2. Cleanse greasy phials and bottles with bone spirit, and save the milky liquor, adding oil if necessary; externally stimulant, rubefacient, in rheumatic pains, tooth-ache.

WARD'S ESSENCE FOR HEAD-ACHE, *Lin. camphoræ compositum*. Aq. ammon. puræ $\bar{3}$ vj, spir. lavand. lb. j; mix and distil lb. j, add camph. $\bar{3}$ ij.

2. Spir. ammon. arom. $\bar{3}$ xij, spir. lavand. simp. $\bar{3}$ x, camph. $\bar{3}$ ij; dissolve.

3. S. V. R. 4 oz., spir. ammon. 2 oz., camph. 2 oz., M.

4. S. V. R. 2 lb., aq. ammon. pur. 5 oz., camph. 4 oz., ess. limon. $\bar{3}$ ss, roche alum 2 oz., mix and decant: stimulant; used externally in local pains, as head-ache or colic.

T. CASTOREI COMPOSITA. Castor. Russ. $\bar{3}$ j, assæfoetid. $\bar{3}$ ss, spir. ammon. lb. j; digest; antispasmodic, in hysteria $\bar{3}$ ss to $\bar{3}$ j.

EDINBURGH PAREGORIC ELIXIR, *T. opii ammoniata.* Flor. benz., croc. ana ʒ iij. opii ʒ ij, ol. anisi ʒ ss, alcohol. ammon. ʒ xvj; digest: anodyne, diaphoretic, ʒ ss to ʒ j: is four times as strong as London paregoric elixir, ʒ j containing opii gr. j.

POTESTATES SUCCINI. Oil of amber ʒ j, subcarb. of ammon. ʒ ss, alcohol P. L. lb. ss; digest four or five days, and decant, gtt. x to xl, externally in whooping-cough.

VETERINARY MEDICINE.

HORSE CORDIAL. Balsam. traumatici 1 pint, spir. ammon. comp., spir. nitri dulc. ana 8 oz.; put up in Bateman's phials, and sealed.

FOR PERFUMERY.

Common eau de luce, Spiritus ammoniæ succinatus, P. L. 1788. Sapo Cast. gr. x, ol. succ. rect. ʒ j, S. V. R. ʒ j; dissolve and add aq. ammon. puræ ʒ iij.

2. Scio turp. true 2 oz., S. V. R. 2 lb.; dissolve; add, when wanted, a few drops to aq. ammon. puræ q. p.

3. Mastich 2 oz., S. V. R. 2 lb.; dissolve, and use as the former.

4. Mastich ʒ ij, musk gr. xij, S. V. R. oz.; dissolve, and add it to aq. ammon. puræ q. p.

5. Aq. ammon. puræ lb. j, ol. succ. rect., ol. lavand., ol. roris-mar. ana ʒ ij; dissolve.

6. S. V. R. lb. ij, ol. succ. 1 oz.; digest, decant, and add ammon. ppæ. 4 oz., dissolved in water lb. j: a drachm of oil of lavender or rosemary, or both, may be added to the spirit, if thought proper.

7. Ol. succ. rect. gtt. xl, S. V. R. ʒ ij, aq. ammon. puræ ʒ xij; distil with a very gentle heat.

Spir. ammon. succ., P. L. 1809. Mastiches ʒ iij, S. V. R. ʒ ix; dissolve, decant, and add ol. lavand. min. xiv, ol. succ. rect. min. iv, aq. ammon. puræ ʒ x.—These either will not retain the milky appearance for any length of time, or the sweet scented oils are contrary to the intention of the medicine.

Eau de luce veritable, Aq. luciæ. Kali pp. ʒ iij, ol. succ. fœt. ʒ jss; rub together, and add by degrees S. V. R. ʒ iv, digest 15 minutes, decant; gtt. xl of this liquor, poured into aq. ammon. puræ ʒ jss, forms eau de luce of the true milky cloudy appearance, and not settling.

2. S. V. R. ʒ iv, ol. succ. fœt. ʒ j; dissolve, decant, and pour into aq. ammon. puræ lb. ij, or rather more. P. Suec. Antispasmodic: used in hysteric fits, and bites of venomous serpents, ʒ j in water or wine.

XI. LIQUID COMPOUNDS.—

Ammoniaccal lavender water. Ol. lavand. Angl. ʒ ij, ess. ambr. gr. ʒj, eau de luce Oj, S. V. R. Oij; a superior article.

COMPOUND SPIRITS.

When these liquors are intended for the toilette, or for retail sale, care must be taken to choose a spirit that has no ill scent; the distillation must be made in a balneum, and the distilled spirit kept for some time in a cool cellar, or rather in an ice-house; but as the apothecaries use these spirits for medicines they do not consider this care to be necessary, and their usual method is to mix a small quantity of essential oil with proof spirit, and thus avoid the trouble of distilling. The usual dose is ʒ ij [to ʒ j], and they are universally stimulant.

SPIRIT OF WORM-WOOD, *Aqua absinthii minus composita.* Fol. absin. sic. lb. ij, cardam. min., sem. coriand., ana lb. ss, proof spir. 4 gall., distil 4 gall.

2. Absinth. 2 lb., sem. coriand., calam. aromat. ana 1 lb., S. V. R. 2 gall., distil 4 gall.; stomachic.

ELIXIR OF GARLICK. Rad. ali. contus. No. 80, S. V. R. lb. j; distil to dryness, and repeat the distillation upon fresh cloves of garlick a second and third time, then add camph. ʒ ij; diaphoretic, ʒ ss bis die.

SP. OF ANGELICA, *Aq. angelicæ.* Leaves lb. j to the gall. of proof spirit.

Sp. rad. angelicæ. Dried roots lb. ij to the gall.

AQ. ANISI FORTIS. Seeds lb. j to the gall. proof.

Sp. anisi. The same, lb. ss to the gall. proof.

AQ. SEMINUM ANISI COMPOSITA, *Sp. anisi compositus.* Sem. anisi, sem. angelicæ, ana lb. ss to the gall. proof.

2. Sem. anisi 4lb., sem. angel. 1 lb., S. V. R. 4 gall., draw 8 gall.; carminative. Dose ʒ ss to ʒ iv.

Sp. of star-anise seed. Is more pleasant than the common.

AQ. CORTICIS AURANTIORUM FORTIS, *Sp. aurant. corticis.* From the yellow part of the peel, lb. j to the gall. proof.

Aq. corticis aurantium spirituosæ. The same, lb. ss to the gall. proof.

2. Cort. aurant. sicc. 3 lb., S. V. R. 1 gallon and a half; draw 8 gallons: stomachic.

HYSTERIC WATER, *Aq. bryoniæ composita.* Succ. rad. bryon. lb. iiij, succ. rutæ, succ. artemis. ana lb. ij, fol. sambinæ m. ij, matricariæ, nepetæ, pulegii, ana m. ij, ocimi, dictam. Cret. ana m.

j ss, cort. aurant. flav. rec. \bar{z} iiij, myrrh. \bar{z} ij, cast. Russ. \bar{z} j, proof spirit lb. viij; distil lb. xij.

2. Rad. bryon. rec. 7 lb., mugwort m. 6, rue m. 24, savine m. 48, motherwort m. 6, pennyroyal m. 12, cat mint, sweet basil, ana m. 6, S. V. R. 5 gallons: draw 10 gallons.

3. Tinct. valerianæ \bar{z} ss, ol. pulegii gtt. xij, ol. rutæ gtt. ij, S. V. R., aquæ, ana lb. j: M. Antispasmodic, emmenagogue, generally sold lowered with aq. pulegii.

CARDAMOM WATER, *Aq. cardamomi fortis*, *A. seminum cardamoni*. Seeds unhusked \bar{z} iiij to the gallon proof.

SP. OF CLOVES, *Sp. caryophyllorum aromati*. lb. ij to the gallon proof.

CARAWAY CORDIAL, *Strong caraway water*, *Aq. seminum carui fortis*, *A. sem. carui*, *Sp. carui*, P. L. 1788, P. D. *Spir. cari carui*. Seeds lb. ss to the gallon proof.

2. Seeds, bruised, 2 lb., S. V. R. 2 gall.; draw 10 gall.

Sp. carui, P. L. 1809. Seeds lb. jss to the gall.

Essence of caraway seeds. Oil of caraway \bar{z} j, S. V. R. \bar{z} iiij; mix.

SP. CASTOREI. Cast. Russ. \bar{z} iiij, fl. lavand. sicc. \bar{z} j, salv. rorism. ana \bar{z} ss, cinnam. \bar{z} vj, mac., caryoph. ana \bar{z} ij, S. V. R. lb. vj, distil to dryness in B. M.; antispasmodic, in hysteria.

CAMOMILE DROPS. S. V. R. lb. j, ol. chamæm. \bar{z} j.

Compound camomile water, *Aq. florum chamæmeli composita*. Fl. cham. sicc. lb. j, flav. aurant. \bar{z} ij, absinth., puleg. ana m. ij, sem. anisi, cymini, fœniculi, bacc. lauri, juniperi, ana \bar{z} j, proof spirit 1 gallon; draw two gallons; but it is usually made proof.

STRONG CINNAMON WATER, *Aq. cinnamomi fortis*. Cinnam. lb. j, proof spirit 1 gallon; draw 10 lb.

Aq. cinnamomi spirituosa, *Sp. cinnamomi*, P. L. 1788, *Sp. lauri cinnamomi*. 1 lb. to the gallon proof.

Sp. cinnamomi, P. L. 1824. Ol. cinnam. v, S. V. R. Oivss, aquæ q. s.; distil a gallon.

SPIR. CASSIÆ. Cassia buds 1 lb., cass. lign. 2 lb., S. V. R. 10 gallons; draw 20 gallons: sold for strong cinnamon water.

SPIRIT OF LEMON PEEL, *Aq. citri corticum fortis*. Peel lb. ij to the gallon proof; distil.

SP. OF CORIANDER, *Sp. coriandri*. Seeds 1 lb. to the gallon proof.

SP. CROCI. Croc. \bar{z} iiij, proof spirit lb. iiij; distil lb. ijss.

PLAGUE WATER, *Aq. epidemica*, *Aq. alexiteria spirituosa*, *Sp.*

alexiterius. Fol. menth. rec. lb. ss, fol. angel., summ. absinth. mar. ana ʒ iiij, proof spir. lb. viij, distil lb. viij.

COMPOUND GENTIAN WATER, *Aq. gentianæ composita*. Rad. gent. lb. jss, fol. et flor. centaur. min. ana ʒ iiij, proof spir. lb. vj; distil 1 gall.

SP. OF HYSSOP, *Sp. hyssopi*. Tops lb. j to the gallon proof.

AQ. JUNIPERI COMPOSITA, *Sp. juniperi compositus*. Bac. junip. lb. j, sem. carui, sem. fœnic. dulc. ana ʒ jss, proof spir. 1 gallon; distil 1 gallon.

2. Gin, not sweetened, is usually sold for it, as, unless the other is drawn stronger than the colleges order it, the spirit will not be bright enough for retail sale: stimulant, diuretic.

SP. OF PEPPERMINT, *Aq. menthæ piperitidis spiritiuosa*, *Sp. menthæ piperitidis*, *Sp. menthæ piperitæ*, P. L. 1809. Herb in flower lb. jss to the gallon proof.

Sp. menthæ piperitæ, P. L. 1824. Ol. menth. pip. ʒ vjss, S. V. R. 4 pints and a half, water q. s.; draw 1 gallon.

Essence of peppermint. S. V. R. 1 pint, put into it kali pp. 1 oz., previously heated, decant, and add ol. menth. pip. half an oz., M.

2. Ol. menth. pip. 1 lb., S. V. R. 2 gall., colour with herb. menth. pip. sicc. 8 oz., M.

3. Ol. men. pip. 3 oz., S. V. R. coloured with spinage 2 pints; mix.

CORDIAL MINT WATER, *Aq. menthæ vulgaris spiritiuosa*, *Sp. menthæ sativæ*, *Sp. menthæ viridis*, P. L. 1809. Dried herb lb. jss to the gallon proof.

SP. MENTHÆ VIRIDIS, P. L. 1824. Ol. menth. vir. ʒ vjss., S. V. R. Oiiijss, water q. s.; draw 1 gall.

AQ. MIRABILIS. Caryoph. arom., galang., cubeb., macis, cardam. min., nuc. mosch., zz, ana ʒj, succ. chelidonii maj. lb. ss, proof spirit lb. ijss; distil lb. ijss.

2. Cass. lign., cort. lim. ana 4 oz., sem. angel. 2 oz., fol. menth. pip. 6 oz., rad. galang. 2 oz., sem. cardam. min. 1 oz., pimentæ 4 oz., S. V. R. 2 gallons; draw 4 gallons.

SP. PIMENTO, P. L. *Sp. pimentæ*. Pimento 2 oz. to the gallon proof.

Sp. pimento, P. D. 3 oz. to the gallon proof; a cheap stimulant; used in hospitals.

Sp. myrti pimentæ. 8 oz. to the gallon proof.

NUTMEG WATER, *Aq. nephritica*. Flor. spinæ Albæ rec. lb. iiij, nuc. mosch. ʒ iiij, white wine 2 gall., distil 12 pints.

Aq. nucis moschatae, *Sp. nucis moschatae*, *Sp. myristicæ*, *Sp. myristicæ moschatae*. Nutmegs \bar{z} ij to the gallon proof. The druggists draw it overproof, because they want it bright : stimulant, carminative.

RIGA BALSAM, *Sp. turionum pini*. Shoots of the Scotch fir collected early in the spring, lb. j to the gallon proof; stimulant, diuretic; externally vulnerary.

COMPOUND PIONY WATER, *Aq. epileptica*, *Aq. pæoniæ composita*. Flor. lil. convall. lb. j, proof spirit cong. ij ss, fl. tiliæ lb. ss, fl. pæoniæ \bar{z} iiij, rad. pæon. mar. \bar{z} ijss, rad. dictam. alb., rad. aristol. long. ana \bar{z} ss, fol. visci, fol. rutæ, ana m. ij, sem. pæon. decort. \bar{z} x, sem. rutæ \bar{z} iiijss, cast. Russ., cubeb., macis, ana \bar{z} ij, cinnam. \bar{z} jss, fl. rorism. pug. vj, fl. stœch. Arab., fl. lavand. ana pug. iiij, fl. beton., fl. tunicæ, fl. paralyseos, ana pug. viij, succ. ceras. nigr. lb. iiij; distil 4 gallons: used as a general vehicle.

SP. PENNYROYAL WATER, *Aq. pulegii spiritiuosa*, *Sp. pulegii*, P. L. 1788. Dry herb lb. jss to the gallon proof; emmenagogue.

Sp. pulegii, P. L. 1824. Ol. pulegii \bar{z} vij, S. V. R. Oiiijss, aquæ q. s.; distil a gallon.

Essence of pennyroyal. S. V. R. 2 pints, colour with spinage, strain, and add ol. pulegii 3 oz.

SP. OF SCURVY GRASS, *Aq. raphani composita*, P. L. 1720. Fol. cochlear. hort., fol. coch. mar. ana lb. vj, express the juice and add succ. beccabungæ, succ. nasturt. aquat. ana lb. jss, rad. raphani rustic. lb. ij, rad. ari. rec. \bar{z} vj, cort. Winteri, nuc. mosch. ana \bar{z} iiij, cort. limon. sicc. \bar{z} ij, proof spirit lb. iiij; distil 1 gallon.

Aq. raphani composita, P. L. 1745. Fol. coch. hort. lb. iv, rad. raph. rust., flav. cort. aurant. Hisp. ana lb. ij, nuc. mosch. \bar{z} ix, proof spirit 2 gall., water q. s.; distil 2 gall.

Sq. raphani compositus. Same as the last, but using nuc. mosch. \bar{z} j.

Sp. armoraciæ compositus. Same as the last, but omitting the scurvy grass.

Sp. cochleariæ simplex. Fol. cochl. rec. 32lb., rad. raph. 4lb., S. V. R. 5 gall.; draw 3 gall.; antiscorbutic.

TREACLE WATER, *Aq. theriacalis*, *Aq. alexiteria spiritiuosa cum aceto*. Fol. menth. vulg. rec., fol. angel. rec. ana lb. ss, summ. absinth. mar. rec. \bar{z} iv., proof spirit 1 gall.; distill 1 gall., and add aceti lb. j. The old process was more complicated.

2. *Aq. bryoniæ comp.* 12 oz., acet. dist. 4 oz., M.; cordial, stimulant.

HUNGARY WATER, *Eau de la Reine de Hongrie*, *Aq. Hungarica*. Fresh rosemary flowers lb. ij, rectified spirit lb. iiij; distil. Also imported from France.

SP. ROSMARINI, P. L. 1809. lb. ij to the gall. proof.

Sp. rosmarini, P. L. 1815. lb. ij to the gall. rectd.

Sp. rosmarini, P. L. 1824. Ol. rosm. ℥j, S. V. R. 1 gall., water q. s.; distil 1 gall.

2. Ol. rosm. ver. 6 oz., ol. lavand. gall. 1 Œ., bacc. cassiæ 6 oz., pimentæ 4 oz., S. V. R. 2 gall.; draw 3 gall.

3. Ol. rosm. ℥jss, ol. lavand. Angl. ℥ij, ol. cinn. gtt. j, proof spirit 10 pints; mix.

4. Ol. rosm. ℥iv, ol. lavand. Gall. ℥j, S. V. R. 3 pints, aq. 1 pint; mix: fragrant; used as a cosmetic, and with sugar as a liqueur.

Sp. rosmarini, P. D. Flowering tops lb. jss to the gall. proof.

SWEET SPIRIT OF VITRIOL, *Sp. vitrioli dulcis*, *Sp. ætheris vitriolici*, P. L. 1788. Oil of vitriol, S. V. R. ana pond. æq.; mix and distil till a black scum begins to rise, then suddenly stop the distillation.

SP. ÆTHERIS SULPHURICI, P. L. since 1809. *Æther sulphuricus cum alcohole*. Ether 8 oz., S. V. R. 1 pint; mix; antispasmodic, stimulant, ℥j to ℥ij in water.

SWEET SPIRIT OF NITRE, *Nitre dulcis*, *Nitre drops*, *Sp. nitri dulcis*. Spirit of nitre lb. ss, S. V. R. 2 pints: distil as long as what comes over does not effervesce with subcarb. of potash.

SP. ÆTHERIS NITROSI, P. L. Acid nitros. lb. ss by wt., S. V. R. lb. ij: distil ℥xxxj.

2. Spir. nitri 1lb., S. V. R. 1 gall., water 4 pints; distil 10 pints: stimulant, diuretic, antispasmodic, gtt. xxx to ℥j, or more.

SP. ÆTHERIS NITRICI. Spir. nitri ℥ij by wt., S. V. R. lb. ij, add gradually and distil ℥xxxvj.

SP. ÆTHEREUS NITROSUS. Add to the residuum of nitrous ether the spirit of wine that collected the vapour; distil to dryness in B. M.; mix the distilled liquor with the alkaline ley used in preparing the nitrous ether, and also with kali pp. q. s. to neutralize the acid; lastly, distil in B. M.; the specific gravity should be 850.

Sp. ætheris nitrosi, P. E. Spir. nitri lb. j, S. V. R. lb. iij; distil in B. M. as long as anything comes over.

SWEET SPIRIT OF SALT, *Sp. salis dulcis*. Spir. salis ℥iv, S. V. R. ℥vj; distil ℥v: diuretic.

HOFFMAN'S ANODYNE LIQUOR, *Liquor anodynus Hoffmanni*, *Sp. ætheris vitriolici compositus*. Oleum vini ℥iv, spir. æther. vitr. lb. ij; mix.

Sp. ætheris sulphurici compositus. Ol. ætherei ʒij, spir. æth. sulph. lb. j; mix.

2. Ether 12 oz., S. V. R. 1 gall., ol. vini ʒij, water 2 pints; mix.

3. Oil of vitriol 2lb., S. V. R. 1 gall.; distil 7 pints.

4. Spir. æther. vitrioli, spir. vitrioli dulcis, ana p. æq.; mix; stimulant, antispasmodic, ʒss to ʒj.

CLUTTON'S FEBRIFUGE SPIRIT, *Sp. febrifugus Cluttoni.* Spir. æther. vitriol. 4 pints, spir. salis. dulc. 1 pint; mix.

2. Spir. vitrioli dulc., spir. salis dulc. ana p. æq.; mix.

3. Ol. vitrioli 1lb. 12 oz., spir. salis 1lb., S. V. R. 1 gallon; distil.

DOUBLE DISTILLED LAVANDER WATER, *Eau de lavande, Aq. lavandulæ, Sp. lavand. simplex.* Picked flowers lb. vj, S. V. R. lb. xvij; steep, and distil. Also imported from France and Italy.

Sp. lavandulæ, P. L. 1788. Flor. lavand. lb. jss to the gall. proof.

Sp. lavandulæ, P. L. 1809. Flor. lb. ij to the gall. proof.

SP. LAVANDULÆ, P. L. 1824. Flor. lb. ij to the gall. rectified spirit.—2. Ol. lavand. Angl. 2lb., ess. ambr. gris. ʒss, S. V. R. 12 gall.—3. Ol. lav. Angl. 5 oz., S. V. R. 3 gall., distilled water 2 gall., fine with burnt alum.—4. Flor. lavand. 14lb., S. V. R. 5 gall., draw 10 gall.; but if the flowers are fresh, the spirit may be drawn a little lower.—5. Ol. lavand. exotic 2 oz., ol. rorism. 1 oz., ol. cinnam. ver. gtt. iv, proof spirit 1 gall.—6. Ol. lavand. Angl. 3 oz., ess. Bergam. 1 oz., ess. amb. gris. ʒv, S. V. R. 14 pints, aq. rosæ opt. 2 pints.—7. Ol. lavand. ʒij, ess. Berg. ʒj, ess. ambr. gr. gtt. xxx, ol. rhodii gtt. vj (mosch gr. j?) S. V. R. lb. j.—8. Ol. lavand. ʒij, ol. rorismar. ʒj, ess. ambr. gris. ʒj, S. V. R. lb. ij.

Sp. lavandulæ spicæ. Flor. lb. ij, S. V. R. lb. viij by wt., distil lb. vij by wt.

FOR PERFUMERY AND COSMETICS.

Sp. of oranges. S. V. R. 8 oz., ess. of oranges ʒss.—*Lemeri's double distilled orange flower water, Eau du naphæ, Aq. naphæ.* Orange flowers 6lb., yellow peel of Seville oranges 6 oz., white wine 1 gall., steep for two days in a warm place, distil.—2. For white wine use spirit of balm 4 pints, melasses spirit 4 pints.

Esprit de Bergamotte. Peel, fresh, lb. ij to the gall. proof.—2. S. V. R. 1 gall., ess. Bergam. ʒv, ess. ambergr. ʒij; M.

Eau de bouquet. S. V. R. lb. jss, spir. rosemary and ess. violet of each ʒss, spir. lemons ʒj, rose water 8 oz.

Sp. calami aromatici. ʒviiij to the gall. proof.

Eau de Cologne. Essence de Bergam. ʒiiij, ess. of neroli ʒjss, ess. de cedrat ʒij, ess. limonum ʒiiij, ol. rorismar. ʒj, S. V. R. lb. xij, spir. rorism. lb. iijss, aq. meliss. compos. lb. ij ʒiv; mix; distil in B. M. and keep it in a cold cellar or ice-house for some time; used externally as a cosmetic, and made with sugar into a ratafia.

2. Wine spirit at 32 deg. Baume, 4 pints, neroli, ess. of cedrat, orange, citron, Bergamotte, rosemary, of each 24 drops, less cardamom seeds ʒij, distil in glass 3 pints.

3. Wine spirit at 32 deg. Baume 2 pints, ess. of citron and Bergamotte ʒij, ess. cedrat ʒj, ess. lavand. ʒss, ess. fl. aurant. tinct. ambr. gr. of each gtt. x, tinct. moschi. ʒss, tinct. benz. ʒiiij, ess. rosar. gtt. ij; mix, and filter.

Eau de framboises. Strawberries bruised lb. xvj, S. V. R. lb. viij; distil to dryness in B. M.

Sp. of jasmin. S. V. R. 8 oz., ess. of jasmine ʒss.

Essence of jasmine. Ess. violet 1 oz., ess. of Bergamotte 1 drachm.

Smith's British lavender. Ol. lavand. Angl. 2 oz., ess. ambr. gr. 1 oz., eau de Cologne 1 pint, S. V. R. 2 pints.

Sweet-scented honey water, Aq. mellis odorifera. Ess. Berg. ʒss, ess. limon. ʒij, ol. caryoph. gtt. xij, mosch. gr. xij, S. V. R. 1 gall., aq. flor. aurant., aq. ros. opt. ana 2 pints, crocus in fœno about gr. xviiij to colour it, but very yellow honey is better, and communicates a clamminess that retains the scent longer; it should be very bright; some add a little brandy colouring: an agreeable perfume, and is also made into ratafia by adding sugar. Usually confounded with honey water for the hair.

Eau de millefleurs. S. V. R. lb. jss, sp. of jasmine ʒij, ess. of lav. ʒss, ess. Bergam. ʒij, orange fl. water 8 oz.

Essence de myrte. Myrtle in flower lb. j to the gallon.

Sp. of balm, Sp. melissæ. Tops lb. j to the gall. proof: fragrant cosmetics.

Eau de melisse des Carmes, Aq. melissæ composita. Fol. meliss. sicc. 4 oz., cort. lim. sicc. 2 oz., nuc. mosch. - sem. coriand. ana 1 oz., caryoph. arom. - cinn. - rad. angel. opt. ana ʒiv, S. V. R. lb. ij, brandy lb. ij; steep, distil in B. M., redistil, and keep for some time in a cold cellar. The published receipt.

2. Spir. melissæ 8 pints, spir. cort. citror. 4 pints, spir. nuc. mosch. - sp. coriand. ana 2 pints, sp. rorismar. - sp. thymi, - sp. cinn. - sp. anis. virid. sp. majoran. - sp. hyssopi. - sp. salviæ, - sp. rad. angelicæ, - sp. caryoph. arom. ana 1 pint; mix, distil, and keep it for a twelvemonth in an ice-house: supposed to be the original receipt of the barefooted Carmelites, now in possession of the Company of Apothecaries of Paris, who sell a great quantity of this celebrated water: cosmetic, stimulant.

Eau sans pareille. Ess. Bergam. ʒijss, ess. limon. ʒiv, ess. citri. ʒij, spir. rorismar. ʒviiij, S. V. R. lb. vj: mix and distil in B. M.; a fragrant cosmetic.—2. S. V. R. 1 gall., mosch. gr. xx, ess. amber gr. ʒij, ol. lavand., ol. caryoph. ana ʒj, ess. Bergam. ʒss, ol. sassafr. gtt. xv, ol. origani gtt. xx: mix.

Esprit de la rose, Sp. rosæ. Petal. rosarum lb. viij, S. V. R. lb. iv; steep and distil to dryness in B. M.—2. Attar of roses ʒj, S. V. R. 1 gall.; distil in B. M. It may be made either more or less scented, at pleasure.

Essence of roses. S. V. R. 2 pints, attar of roses ʒiij.

Sp. of sage, Sp. of salviæ. Tops lb. j to the gall. proof.

Esprit de tain, Sp. of lemon thyme, Sp. thymi. Tops lb. j to the gall. proof.

Eau d'arquebusade, Aq. vulnararia, Aq. sclopetaria. Sum. sicc. salviæ, absinth., fœnic., hysop., rutæ, majoran., origan., serpilli, saturejæ, menth. piper., meliss., thym., rorism., calamenth., scordii, fol. angelicæ recent., fol. basil., flor. lavand. ana 4 oz., proof spirit 2 gall.; steep for a fortnight, distil 1½ gall.

2. Summ. millefolii lb. jss, fol. rorism., fol. thym. ana lb. ss, proof spirit 2 gall.: distil 1 gall.

3. Fol. rorism. lb. jss, summ. millef., fol. thym. ana lb. ss, proof spirit 2 gall.; distil 1 gall.; stimulant, also cosmetic, vulnerary.

Essence de tubereuses.—Essence de jasmin. The flowers are stratified with wool or cotton, impregnated with oil of ben, or nut oil, in an earthen vessel closely covered, and kept for some time in a warm bath; and this repeated with fresh flowers, until the oil is well scented; the wool, &c. is then put into spirit of wine, q. s., and distilled in a balneum.

FOR THE KITCHEN.

Spirit of sweet basil.—Sp. of sweet marjoram. Tops 1lb., proof melasses spirit 1 gall., water ½ gall.; steep and distil off 1 gall.: used to flavour sauces and stews.

Essence of bitter almonds. Essential oil of bitter almonds lb. j, S. V. R. lb. vij; used by confectioners to make noyveau.

FOR USE IN THE ARTS.

Guyot's spirit. French brandy 5 gall. ; distil 10 pints : add to that left in the still well-water 30 pints, lavender flowers or leaves 1 lb. ; distil all off. Take of the spirit first drawn off 11 oz., measures, well water 69 oz. measures ; of the second spirit 80 oz. measures : mix. Used for preserving animals and vegetables ; contains 1 part of alcohol to 13 water.

Substitute for Guyot's spirit. Spirit of lavender 1 pint, very clear spring water 6 pints ; if it grows thick, filter through white filtering paper.

TINCTURES.

FOR MEDICAL USE.

TINCTURA ACONITI. Fol. acon. ʒj, proof spirit ʒvj ; anodyne, deobstruent, gtt. x, gradually increased.

TINCT. ABSINTHII. (*Ph. Den. et Pruss.*) Wormwood 1 part, alcohol 6. Doses ʒss to ʒij.

TINCT. ABSINTHII COMP. (*Par.*) Large and small wormwood, of each 8, cloves 8, sugar 4, alcohol 125.

ESSENTIA AMARA. (*Ph. Den.*) Wormwood 4, blessed thistle, bitter orange peel, and gentian root, ana 1, alcohol 45. Doses ʒss to ʒij added to mixtures.

TINCT. ALOES, P. L. 1788, P. D. Aloes Soc. ʒss, extr. glycyrr. ʒj, proof spirit, water, ana lb. ss.—*T. aloes*, P. L. 1809.

TINCT. ALOES SOCOTRINÆ. Al. Soc. ʒss, ext. glyc. ʒjss, S. V. R. ʒiv, water lb. j ; purgative, stomachic, ʒss to ʒjss.

VINUM ALOES, P. L. 1824. Al. spic. extr. ʒviiij, canellæ cort. ʒij, proof spirit and water, ana O iv.

ELIXIR ALOES SAPONACEUM. Al. Soc., kali acet., fell. bovis spic., myrrh. ana ʒj, croci ʒss, S. V. R. lb. j ; aperient, deobstruent.

BALSUM OF LIFE, *Dec. aloes compositum.* Extr. glycyrr. ʒss, kali ppi. ʒij, aloes Soc., myrrh., croci, ana ʒj water lb. j ; boil to ʒxij, strain, add tinct. cardam. comp. ʒiv ; its taste improves greatly by keeping ; stomachic, aperient, ʒss to ʒij ; also externally to wounds and ulcers.

ASTHMATIC ELIXIR. Opium 1 oz., camphire 5 drachms, ol. anisi 1 oz., proof spirit 1 gall.

TINCT. ALOES ÆTHEREA. Myrrh. ℥jss, æther. sulph. c. alco. lb. j; digest, add aloes Soc. ℥jss, croci ℥j, digest again: more stimulant than the spirit tincture.

SPIRIT BITTERS, *T. amara, T. gentianæ composita*, P. L. et D. Rad. gentian. ℥ij, cort. aurant. sicc. ℥j, sem. card. minor. ℥ss, proof spir. lb. ij.

2. Rad. gent. 1lb., cort. aurant. 8 oz., gran. Parad. 1lb., coccin. ℥ij, raisin wine 4 pints, proof spir. 12 pints.

3. Rad. gent. 8 oz., cort. aur. 4 oz., gran. Par. 1 oz., cocc. ℥ij, proof spirit 1 gall.

4. Rad. gent. 8 oz., coccin. ℥iv, S. V. R. 4 gall., water 6 gall.

TINCT. GENTIANÆ COMPOSITA, P. E. Rad. gent. ℥ij, cort. aur. ℥j, canel. alb. ℥ss, cocc. ℥ss, proof spir. lb. ijss.

ESSENTIA ANETHI. Spir. anethi ℥xii, ol. anethi ℥ij, extr. anethi, sal. anethi, āā ℥ss, digest and strain.

TINCT. ANTHEMEDIS.

TINCT. OF ANTIMONY, *T. antimonii*. Take crude antimony 1 oz., salt of tartar and saltpetre, of each 2½ oz., mix and throw them into a red hot crucible: when melted, pour them out into an iron mortar, powder the mass while hot, and before it grows cold put it into a bottle with lb. iv of spirit of wine; digest and decant.

TINCT. ANGUSTURÆ, *T. Bonplandiæ trifoliatæ, T. cuspariæ*. Cort. ang. ℥ij, proof spirit lb. ij; stomachic, tonic, ℥j to ℥ss.

VINUM ANTIMONII TARTARIZATI, P. L. 1824. Antim. tart. ℥j, dissolve in water ℥viiij, filter and add S. V. R. ℥ij; emetic.

SPILSBURY'S ANTISCORBUTIC DROPS. Sublim. corr., rad. gent., cort. aurant. sicc. ana ℥ij, antimon. crudi, sant. rubri, ana ℥j, S. V. R., aquæ ana ℥viiij.

2. Corros. sublim. ℥iv, antim. tartar. ℥x ℥ij, coccinel. ℥v ℥j, rad. gent. 4 oz., aq. fontanæ 4 pints, ol. vitrioli q. s.

TINCT. GUMMI ANIME. Gum anime ℥j, S. V. R., water, ana 8 oz.; used as an alterative.

BATES'S ANODYNE BALSAM, *Balsamum anodynum, T. saponis et opii*. Sapon. alb. ℥iv, opii crud. ℥j, camph. ℥ij, ol. rorism. ℥ss, S. V. R. lb. ij.

2. Sapio. Cast., camph. ana 6 oz., opii ℥iv, croci ℥j, S. V. R. 18 oz.

3. Sap. alb. 12 oz., op. crud. 3 oz., camph. 1 oz., ℥iv, ol. rorism. ℥iiij, S. V. R. 1 gall.: anodyne gtt. xx to xl; also externally to sprains.

ANTIVENEREAL DROPS. Corr. sublim. and mur. ferri, dissolved in S. V. R.

TINCT. AROMATICA, *T. cinnamomi composita*, P. L. et D. Cinn. $\mathfrak{z}\text{vj}$, sem. card. min. $\mathfrak{z}\text{ij}$, piper. long., zz. ana $\mathfrak{z}\text{ij}$, proof spirit lb. ij.

2. Bac. cassiæ 3 oz., sem. card. min. 1 oz. $\mathfrak{z}\text{iv}$, pp. long. brev. 1 oz., zz. 1 oz., proof spirit 1 gall.

8. Cinn., canel. alb., galang. ana $\mathfrak{z}\text{ss}$, card. min. $\mathfrak{z}\text{ij}$, S. V. R. lb. j; stimulant, astringent, $\mathfrak{z}\text{j}$ to $\mathfrak{z}\text{ss}$.

TINCT. CINNAMOMI COMPOSITA, P. E. Cinnam., sem. card. min. ana $\mathfrak{z}\text{j}$, piper. long. $\mathfrak{z}\text{ij}$, proof spirit lb. ijss.

TINCT. BALSAMI PERUVIANI. Bals. Peru. $\mathfrak{z}\text{iv}$, S. V. R. lb. j: pectoral $\mathfrak{z}\text{j}$ to ij, quater in die; also as a perfume, and to drop into rose water to make milk of roses.

TINCT. BALSAMI TOLUTANI, P. L., *T. Toluiferæ balsami*. Bals. Tol. $\mathfrak{z}\text{jss}$, S. V. R. lb. j.

T. balsami Tolutani, P. D. Bals. Tol. $\mathfrak{z}\text{j}$, S. V. R. lb. js; used in making pectoral syrup.

TINC. BALSAMI SULPHURIS. Bals. sulphuris terebinth. boiled in B. M. to dryness, $\mathfrak{z}\text{ij}$, proof spirit lb. j: digest; pectoral.

FREEMAN'S BATHING SPIRITS. Sapo. mollis 6lb., camph. 8 oz., S. V. R., water, ana 3 gall.: colour with Daffy's elixir.

2. Sapon. mol. 12 oz., camph. 2 oz., kali ppi. $\mathfrak{z}\text{ss}$, proof spirit 14 pints, Daffy's elixir 4 oz.; mix: this will give 12 dozen bottles.

JACKSON'S BATHING SPIRITS. Sapon. moll. 2lb., camph. 12 oz., ol. rorism., ol. organi, ana 1 oz. $\mathfrak{z}\text{iv}$, S. V. R. 2 gall.: are both similar to opodeldoc.

ALCOHOL DE BRUCINE. Brucine gr. xv, wine spirit at 36 deg. Baume $\mathfrak{z}\text{j}$, dose gtt. vj to xxiv.

BRODUM'S NERVOUS CORDIAL. Tinct. gent., t. calumb., t. cardam., t. cort. Peruv. with spir. lavand. c. and vin. ferri.

TINCT. CALAMI. Calami rad. contusi $\mathfrak{z}\text{iv}$, spirit. tenuior, Oij; digere per dies quatuordecim et cola: tonic in bitter infusions.

TINCT. CENTAURII CACUMINUM. Centaurii cacumin. $\mathfrak{z}\text{ij}$, spirit. tenuior. vij: digere per dies quatuordecim et cola: tonic combined with bitter infusions.

COLOMBO BITTERS, *T. columbæ*, P. L. *T. calumbæ*. Rad. col. $\mathfrak{z}\text{ijss}$, proof spirit lb. ij.

2. Rad. colomb. 2lb. 4 oz., cort. aurant. 1lb., sem. card. 8 oz., S. V. R. 4 gall.; tonic, $\mathfrak{z}\text{j}$ to $\mathfrak{z}\text{ss}$, in bilious complaints.

Tinct. columbæ, P. E., *T. columbo*. Rad. col. ʒij, proof spirit lb. ij.

ESSENCE OF CAMOMILE. Lign. quassiaë 8 oz., S. V. R. 1 gall., ol. chamæm. q. s. to scent it.

SPIRIT OF WINE AND CAMPHIRE, *Sp. vini camphoratus*, *Sp. vinosus camphoratus*, *T. camphoræ*. Camph. ij., S. V. R. lb. ij.

Sp. camphoratus, *Sp. camphoræ*. Camph. ʒiv, S. V. R. lb. ij; stimulant, anodyne, in pains, numbnesses.

TINCT. OF CANTHARIDES, *T. cantharidum*, P. L. before 1745. Rhabarb. ʒiij, guaiac. ʒjss, laccæ ʒj, cantharid. ʒij, coccin. ʒss, S. V. R. lb. jss.

Tinct. cantharidum, P. L. 1745, *T. cantharidis*, P. L. 1788. Canth. ʒij, coccin. ʒss, proof spirit lb. jss.

Tinct. lyttæ, *T. cantharidis*, P. L. 1824. Canth. ʒiij, proof spirit lb. ij.

2. Canth. (crass.) 1 oz., coccin. ʒij, proof spirit 6 pints: stimulant, diuretic, in gleet, seminal weaknesses, ʒss to ʒj, bis terve die; used externally, largely diluted with water, viz. ʒj to ʒiij, to fistulous ulcers.

Tinct. meloes vesicatorii. Canth. ʒj, proof spirit lb. j.

TINCT. CAPSICI. Capsic. ʒj, proof spirit lb. ij; stimulant, ʒj to ʒss, in atonic gout.

TINCT. OF CARDAMOMS, *T. cardamomi*, P. L. before 1745. Cardam. min. lb. ss, proof spir. lb. ij.

Tinct. cardamomi, P. L. since 1745, P. D. Sem. card. min. ʒiv, proof spirit lb. ij.

2. Sem. card. min. 1lb., proof spirit 1 gall.: carminative, stimulant, ʒj to ʒss; used to prevent griping.

Tinct. amomi repentis. Sem. card. min. ʒiv, proof spirit lb. jss by weight.

TINCT. CASCARILLE, *T. crotonis eleutheriæ*. Cort. cascar. ʒiij, proof spirit lb. ij; stimulant, in debility of the stomach and bowels ʒj to ʒss, ter quaterve die.

TINCT. OF CASTOR, *T. castorei*, P. L. before 1745. Cast. Russ. ʒss, spir. cast. Russ. lb. ss.

Tinct. castorei, P. L. since 1745. *Tinct. cast. Russ.* Cast. Russ. ʒij, proof spirit lb. ij.

Tinct. castorei Canadensis, *T. c. Novæ Angliæ*. Cast. Canad. ʒij, proof spirit lb. ij.—2. Cast. Nov. Angl. 8 oz., S. V. R. 5 pints, water 3 pints; antispasmodic, in female diseases, ʒj to ʒiij.

Tinct. castorei, P. E. Cast. Russ. ʒjss, S. V. R. lb. j.

TINCT. JAPONICA, *T. catechu.* Catechu ʒij, cinnam. ʒij, proof spirit lb. ij.

2. Tetr. Japon. 6 oz., bacc. cassæ 4 oz., proof spirit 5 pints; astringent, ʒj to ʒss, in diarrhoea, menorrhagia, fluor albus.

Tinct. mimosæ catechu, T. acaciæ catechu. Cat. ʒij, cinn. ʒij, proof spirit lb. ijss by weight.

TINCT. OF THE BARK, *T. corticis Peruviani simplex, T. cort. Peruviani, T. cinchonæ, P. D.* Cort. Peruv. ʒiiij, proof spirit lb. ij.

Tinct. cinchonæ, P. L. Cort. Peruv. ʒvij, proof spirit lb. ij.—
2. Cort. Peruv. 2lb., proof spirit 2 gall.—3. Extr. cort. (Hispan.) 6 oz., S. V. R. 10 pints, water 1 gall.; tonic, stomachic, ʒj to ʒss.

Tinct. cinchonæ officinalis. Cort. Peruv. ʒiiij, proof spirit lb. ijss by weight.

Concentrated tincture of bark. Extract. resinos. cort. flavæ 2lb., tinct. cort. aurant. 2 pints, S. V. R. 12 pints.

2. 24lb., cort. cinch. 6lb., cort. casc. 4lb., serp. Virg. 16lb., cort. aurant. 8 oz., croc. in fœno 4 gall., S. V. R. 28lb. proof spirit.

ALCOHOL DE CINCHONINE. Sulphate of quinine gr. viij, wine spirit at 34 deg. Baume ʒj; febrifuge.

HUXHAM'S COMPOUND TINCTURE OF BARK, *T. corticis Peruviani composita, T. cinchonæ composita.* Cort. Per. ʒij, cort. aurant. sicc. ʒjss, rad. serpent. Virg. ʒij, croc. ʒj, coccin. ʒij, proof spirit ʒxxx.

2. Cort. Per. ʒlb., cort. aurant. 2lb. 4 oz., rad. serp. Virg. 8 oz., croc. in fœno 2 oz., coccin. 1 oz., S. V. R. 2 gall. 2 pints, water 2 gallons.

3. Cort. Per. 2lb., cort. aurant. 1lb., rad. serp. 4 oz., croci 2 oz., coccin. ʒij, S. V. R. 12 pints, water 2 pints.

4. Cort. Per. 12 oz., cort. aurant. 8 oz., rad. serp. 2 oz., croc. in fœno 1 oz., spir. nitri dulcis 4 oz., S. V. R. 1 gall.

5. Cort. Per. 5lb., cort. aur. 3lb. 8 oz., rad. serp. 8 oz., croc. in fœno 4 oz., cocc. 2 oz., proof spirit 6 gall.; produce 40 pints.

6. Extr. cort. Hisp. 6 oz., cort. aur. 12 oz., rad. serp. 2 oz., croc. in fœno 2 oz., proof spirit 2 gall.

Tinct. cinch. flavæ. Cort. Per. flav. ʒvj, proof spirit Oij.

Tinct. cinch. rubræ. Cort. Per. rub. ʒvij, proof spirit Oij.

TINCT. CINNAMOMI, P. L. Cinn. ʒij, proof spirit lb. ij.

Tinct. of cassia, T. cassiæ baccæ. Cassia buds 4 oz., proof spirit 4 pints, sold for t. cinnamomi: stomachic, astringent, ʒj to ʒij.

Tinct. cinnamomi P. D. Cinn. ʒijss , proof spirit lb. ij.

Tinct. lauri cinnamomi. Cinn. ʒiiij , proof spirit lb. ijss by weight.

VINUM. COLCHICI, P. L. 1824. Colchici rad. rec. lb. j, proof spirit ʒiiij , water ʒviiij .

TINCT. COLCHICI SEMINUM.

TINCT. COLCHICI. Rad. colc. ʒij , proof spirit ʒiv : used in gout and rheumatism.

TINCT. CONTRAYERVÆ. (*Par. H.*) Dose ʒj to ʒij in a mixture.

TINCT. CUBEBÆ.

TINCTURE OF COPPER AMMONIACAL. Prepared by taking one drachm twelve grains of copper filings, liquor of ammonia one ounce and a half. When the liquid has assumed a blue colour, it is decanted, and set aside. This tincture is used in making Kœchlin's liquid in the following manner:—Take of ammoniacal tincture of copper two ounces, hydrochloric acid five drachms twelve grains, distilled water five pounds. This has been found serviceable in cases of scrofula. The dose for a child of from three to eleven years old is a tea-spoonful once a day.

CHAMBERLAIN'S BILIOUS CORDIAL. From the inner bark of the *Juglans cinerea*, with spices; much used in America.

DALBERG'S TINCTURE OF COLOQUINTIDA. Pulp. colocynth. ʒjss , sem. anis. stell. ʒj , proof spirit ʒxxx ; purgative, gtt. xv, ter quaterve die, augmenting the dose by gtt. j each time until a stool is obtained.

TINCT. CONII MACULATI. Fol. conii ʒij , card. min. ʒs , proof spirit ʒxij .

TINCT. OF SAFFRON, *T. croci.* Croc. in fœno ʒss , aq. theriacalis ʒviiij .

Tinct. croci cum spiritu vini. Croc. ʒss , proof spirit ʒviiij .

2. Croc. 4 oz., coccin. ʒiiij , proof spir. 1 gall.; cordial, ʒj to ʒiiij .

TINCT. BELLADONNÆ. Belladon. fol. exsiccat. ʒij , spirit. tenuior. Oj; macera per dies quatuordecim et cola: doses gtt. x to xxv.

TINCTURE OF STRAMONIUM, *T. daturæ stramonii.* Sem. daturæ stramonii ʒij , proof spirit lb. j; is said to be superior to laudanum: dose gtt. viij.

TINCT. DICTAMNI ALBI. Rad. dictam. alb. rec. ʒij , S. V. R. 1 pint; tonic, antispasmodic, gtt. xx to 1, bis terve in die, in epilepsy and chlorosis.

TINCT. OF FOXGLOVE, *T. digitalis*. Fol. digit. sicc. ʒiv , proof spirit lb. ij; diuretic, gtt. x, cautiously increased.

TINCT. OF EUPHORBIIUM, *T. euphorbii*. Gum. euph. 3 oz., S. V. R. 1 pint; externally stimulant.

TINCT. OF GALL, *T. fellis*. Dried gall 2 oz., proof spirit 1 pint; removes freckles.

VINUM FERRI, P. L. 1824. Ferri ʒj , potas. supertartr. ʒvj ; grind together and moisten with water occasionally for six weeks; then dry, grind, and add water ʒxxx , strain and add proof spirit ʒxx .

TINCT. MARTIS MYNSICHTI, *T. florum Martialium, T. ferri ammoniata*. Flor. Martial. ʒiiij , proof spirit lb. j.

TINCT. OF STEEL, *T. Martis cum sale ammoniaco*. Residuum in subliming iron filings with sal ammoniac q. p., S. V. R. q. s. to extract the tincture, evaporate to one half, and add a little spirit of salt.

TINCT. MARTIS IN SPIRITU SALIS. Iron filings lb. ss, spir. of salt lb. ij: dissolve, decant, evaporate to a pint, and add S. V. R. lb. ij.

TINCT. FERRI MURIATI, *T. ferri muriatis*, P. L. & D. From the rust instead of the filings of iron.

2. Colcoth. vitriol. 2 oz., spir. salis 8 oz., S. V. R. 2 gall., water 4 pints; it will look well in time, but if for immediate sale add a little brandy colouring.

***T. muriatis ferri*, P. E.** Blacksmiths' scales of iron ʒiiij , spir. salt q. s. to dissolve them, add S. V. R. to make up the weight of lb. ijss.

TINCT. ACETATIS FERRI. Kali acet. ʒij , sal Martis ʒj ; grind together, add S. V. R. lb. ij; digest seven days, and decant: are astringent, tonic, gtt. xx— ʒj , bis terve die.

TINCT. FÆTIDA, *T. assæfœtidæ, T. assafœtidæ*, P. L. Ass. fœt. ʒiiij , S. V. R. lb. ij.

***Tinct. assæfœtidæ*, P. D.** Ass. fœt. ʒiiij , S. V. R. lb. ij, water ʒviiij .

***Tinct. ferulæ assæfœtidæ*.** Ass. fœt. ʒiiij , S. V. R. lb. ijss by weight: antispasmodic, ʒss to ʒjss in hysteria.

SOOT DROPS, *T. fuliginis*. Wood soot ʒij , ass. fœt. ʒj , proof spirit lb. ij; as the former.

TINCT. GALBANI. Galb. ʒij , proof spirit lb. ij; less nauseous than the two former, but also less effectual.

TEINTURE DE GENTIANIN. Gentianin gr. ʒv , wine spirit at 24 deg. Baume ʒj .

TINCTURE OF GALLS, *T. Gallarum.* Galls ʒiij , proof spirit lb. ij : astringent ʒj — ʒij ; used as a test liquor for iron, with which it grows black.

GOUT CORDIAL. Rad. rhei, fol. sennæ, sem. coriand., sem. foenic., coccinellæ ana ʒij , rad. glycyrh., croci ana ʒj , raisins $2\frac{1}{2}$ lb., S. V. R. 2 gall.

REECE'S EAU DE HUSSON, *T. gratiolæ.* From the dried herb of hedge hyssop : used in gout and rheumatism.

TINCTURE OF GUAIAIACUM, *T. guaiaci*, P. L. 1809. *T. guaiaci officinalis.* Gum guaiaci lb. ss, S. V. R. lb. ij, digest fourteen days ; stimulant, diaphoretic, in rheumatism ʒij to ʒss .

Hatfield's tincture. G. guaiaci, saponis ana ʒij , S. V. R. b. jss.

Hill's essence of bardana. G. guaiaci ʒj , S. V. R. aquæ ana ʒij .

TINCTURE OF BLACK HELLEBORE, *T. hellebori.* Rad. helleb. nig. ʒij , sal. tart. ʒj , coccin. ʒj , proof spir. lb. j.

Tinct. melampodii, T. hellebori nigri, P. L. before 1809, P. D. Rad. helleb. nig. ʒiiij , coccin. ʒij , proof spir. lb. ij.

Tinct. hellebori nigri, P. L. 1809. Rad. helleb. nig. ʒiiij , proof spirit lb. ij.

Tinct. hellebori nigri, P. E. Rad. helleb. nig. ʒiv , coccin. ʒss , proof spirit lb. ij by weight ; a striking example of useless alterations : attenuant, emmenagogue, ʒss — ʒjss , bis terve die.

HILL'S BALSAM OF HONEY. Bals. Tolu 1lb., honey 1lb., S. V. R. 1 gallon.

2. Bals. Tolu opt. 2 oz., gum. styrac. ʒij , opii pur. ʒss , mell. opt. 8 oz., S. V. R. 2 pints ; pectoral, used in coughs and colds.

FORD'S BALSAM OF HOREHOUND. Horehound, liquorice root ana 3lb. 8 oz., water q. s. to strain 6 pints, infuse : to the infusion add proof spirit or brandy 12 pints, camphire 1 oz. ʒij , opium pur., benjamin ana 1 oz., dried squills 2 oz., oil of anise seed 1 oz., honey 3lb. 8 oz.

EAU DE HUSSON. Is thought to be a mixed tincture or wine of henbane and colchicum ; a tincture of colchicum has been proposed for it by Want ; a tincture of hedge hyssop is said to be sold for it by Reece ; and a wine of white hellebore proposed by More : but neither of them is possessed of the same characters as the Parisian medicine.

TINCT. OF ST. JOHN'S WORT, *T. hyperici.* From the tops : useful in maniacal and melancholic cases.

TINCT. OF HOPS, *T. humuli.* Hops ʒv , proof spirit lb. ij ; tonic, narcotic, ʒss to ʒij .

**TINCT. OF HENBANE, *T. hyosciami*, P. L. *T. hyosciami nigri*.
Fol. hyos. nigr. sicc. ℥iij, proof spirit lb. ij.**

T. hyosciami, P. D. Fol. hyos. sicc. ℥ij ℥ij, proof spirit lb. j;
narcotic, sometimes purgative, gtt. xx to ℥j.

TINCT. IPECACUANHÆ. Rad. ipecac. 2 oz., S. V. R. a pint:
is less emetic than the root in substance; used in dysentery.

VINUM IPECACUANHÆ, P. L. 1824. Ipec. rad. ℥ij; proof
spirit fl. ℥xij, water fl. ℥xx. A good emetic for infants. Dose
℥iv to ℥x in divided doses.

**TINCT. JALAPÆ, *T. jalapæ*, P. L. Rad. jalap. ℥viiij, proof spir.
lb. ij. Purgative; generally added to purgative draughts to
promote their effects**

Tinct. jalapæ, P. D. Rad. jalap. ℥v, proof spirit lb. ij.

Tinct. convolvuli jalapæ. Rad. jalap. ℥iij, proof spirit ℥xv by
weight; purgative, ℥j to ℥ss.

Elixir jalapæ compositum. Rad. jalap. 4 oz., scam. Alep. ℥iv,
G. G. G. ℥ij, S. V. R. 2 pints.

TINCT. KINO, P. L. 1809. Kino ℥ij, proof spirit lb. ij.

Tinct. kino, P. L. 1824. Kino ℥iij, S. V. R. Oij.

Tinct. kino, P. D. Kino ij, proof spirit lb. jss.

Tinct. kino, P. E. Kino ℥ij, proof spirit lb. jss by wt.; astringent
℥j to ℥ss in diarrhœa.

TINCT. LACCÆ. Gum. lacc. 4 oz., gum. myrrh. 2 oz., spir.
cochlear. 6 pints; to wash spongy gums.

TINCT. OF OPIUM, *Laudanum liquidum tartarizatum*. Opii
℥ij, croci ℥j, cinnam., caroph., macis, nuc. mosch., lign. aloes,
ana ℥j, tinct. salis tartari lb. ij; digest, strain and evaporate to
one half.

Tinct. opii, P. L. 1788. Hard purif. opium ℥x, proof spirit
lb. ij.

Tinct. opii, P. L. and D. Opii ℥ijss, proof spirit lb. ij; the
sediment is used to make Haden's liq. opii sedativus.

Tinct. opii, P. E. Opii ℥ij, proof spirit lb. ij by wt.; anodyne,
narcotic, gtt. xx to xl, or more; externally anodyne, antispas-
modic.

Vinum opii, P. L. 1824. Extr. opii ℥j, cinnam., caryoph. ana
℥j, proof spirit ℥vj, water ℥x; anodyne, narcotic, gtt. v. to ℥j.

Ford's laudanum. Opii ℥j, cinnam., caryoph. ana ℥j, S. V. R.
aq. ana ℥viiij

**LAVANDER DROPS, *Red hartshorn, Spiritus lavandulæ compositus*,
P. L. before 1809.** Spir. lavand. simp. lb. ij, spir. rosul. lb. j,
cinnam., nuc. mosch. ana ℥ss, santal. rubr. ℥iij.

Tinct. lavandulæ composita, *Sp. lavand. comp.* P. L. 1809. The same, but with 1 oz. of red sanders.

2. Ras. sant. rubr. 1lb., piment., cass. lign. ana 8 oz., S. V. R. 12 pints; digest, strain, and add ol. lavand. 4 oz., ol. rorism. 2 oz., proof spirit 4 galls.

3. Ras. sant. rubr. 1lb., cass. lign. 2 oz., nuc. mosch. 1 oz., croci in f. ʒiij, pisar. aurantiar. 1 oz., fol. ros. rubr. 2 oz., S. V. R. 1 gall.; make a tincture, it will produce 6 pints, to 4 pints of this tincture add ol. lavand. exot. 14 oz., spir. vol. aromat. 6 oz., S. V. R. 5 gall., distilled water 10 pints.

4. Red sanders 4 oz., S. V. R. 4 pints; digest, strain, and add ol. lavand. ʒiv, ol. rorism. 1 oz., ol. cass. gtt. viij, ol. caryoph. gtt. iv, spir. ammon. comp. q. s. about ʒvj, to produce the proper colour. Stimulant, antispasmodic, ʒss—ʒij, in nervous languors.

Sp. lavandulæ compositus, P. D. The same as the last, with cloves ʒij added.

Sp. lavandulæ compositus, P. E. Spir. lavand. lb. ij by weight, sp. rorism. lb. j by weight, cinnam. ʒj, caryoph. ʒij, nuc. mosch. ʒss, sant. rubr. ʒiij.

TEINTURE DE LUPULINE. Magendie's lupuline ʒj, S. V. R. ʒij; digest, add S. V. R. to make 3 oz.; press out the liquid.

TINCT. LACTUCARII.

TINCT. MASTICHIS. Used to make eau de luce.

SIMPLE TINCTURE OF MYRRH, *T. myrrhæ simplex*. Myrrh ʒss, salt. tart. ʒij; keep in a moist place for a week, add S. V. R. ʒviiij.

Tinct. myrrhæ, P. L. 1745. Myrrh ʒiij, proof spirit lb. ij.

Tinct. myrrhæ, P. L. 1788 and P. D. Myrrh ʒiij, proof spirit lb. jss, S. V. R. lb. ss.

Tinct. myrrhæ, P. L. 1809. Myrrh ʒiij, S. V. R. ʒxij, water lb. ss.

Tinct. myrrhæ, P. L. 1815. Myrrh ʒij, S. V. R. lb. ij, water lb. j.

Tinct. myrrhæ, P. E. Myrrh ʒiij, S. V. R. ʒxx, water ʒx. Detergent in gargles, and lotion for ulcers.

COMPOUND TINCTURE OF MYRRH, *Tincture of myrrh and aloes*, *T. myrrhæ composita*. Aloes, myrrh, ana ʒj, proof spirit lb. j.

2. Aloes, myrrh, ana 12 oz., proof spirit 3 gall.

3. Gum. myrrh 1lb. 4 oz., aloes Barbado. 4 oz., proof spirit 1 gallon.

4. Gum. myrrh 1lb. 2 oz., aloes B. B. 6 oz., S. V. R. 7 pints, water 5 pints. Detergent, prevents suppuration in green wounds.

ELIXIR MYRRHÆ COMPOSITUM, *T. sabinæ composita*. Extr. sabinæ ʒj, tinct. castor lb. j, tinct. myrrh lb. ss: emmenagogue.

Teinture de myrrhe. Myrrh 3 oz., eau de Rabel 1lb. by weight; stimulant.

Tinct. myrrhæ rubra. Myrrh. ʒij, coccin. ʒss, S. V. R. ʒxij; digest and strain: used for making electarium gingivale.

TINCTURE OF NUX VOMICA. Rosin of nux vomica gr. iij, S. V. R. ʒj; in palsy.

PAREGORIC ELIXIR, *Elixir paregoricum*. Opii pur., - fl. benz. ana ʒj, camph. ʒij, ol. sem. anisi ʒss, S. V. R. lb. ij.

2. Pulv. opii, fl. benz. ana 12 oz., gum. benz. 6 oz., camph. 1 oz., ol. anisi ʒxij, proof spirit 3 gall.

3. Extr. opii 2 oz. ʒij, camph., fl. benz. ana 1 oz. ʒiv, ol. anisi ʒvj, S. V. R. 2 gall., water 10 pints.

4. Gum opium 1 oz., gum benz. 2dum 8 oz., camph. 1 oz., ol. anisi ʒiv, S. V. R. 12 pints, water 2 pints. Anodyne ʒss—ʒij; useful in recent coughs.

Tinct. camphorata. The same, but with proof spirit.

Tinct. camphoræ composita. The same, with proof spirit, and omitting the oil of anise seeds.

MORRIS'S DROPS. Tart. emet. dissolved in S. V. R. and then coloured.

TINCT. ANISI. Essence of spruce ʒij, spir. turion. pini lb. j; stimulant, aniseptic.

TINCT. PIPERIS. Pip. nig. ʒiv, S. V. R. ʒxvj; digest.

BATEMAN'S PECTORAL DROPS. Sem. fœnic. dulc. 2lb. 8 oz., sem. anisi 1 lb., proof spirit 4 gall., water q. s.; distil 10 gall., to which add opium 7 oz. ʒiv, camph. 6 oz., kali pp. 1 oz., coral. rubr. 4 oz.

2. Castor. N. A. 2 oz., opium, ol. anisi ana 1 oz. ʒiv, camph. 8 oz., sem. fœnic. dulc. 2 oz., tinct. antim. 4 oz., proof spirit 10 pints, add rad. valerian and cochineal in powder.

3. Castor., camph. ana 4 oz., coccin. 1 oz., S. V. R. 2 gall., water 1 gall.

4. Opii, camph. ana 1lb., castor. ol. anisi, santal. rub. ana 4 oz., treacle 10lb., S. V. R. 5 gall., water 4 gall.

5. Opii, camph. ana ʒx, coccin. ʒj, kali ppi. ʒiv, ol. fœnic. dulc. ʒj (or seeds 8 oz.), proof spirit 14 pints, water 2 pints, produces 15 pints.

6. Castor 1 oz., ol. anisi ʒj, camph. ʒv, coccin. ʒjss, opii ʒvj, proof spirit 1 gall.

7. Rad. glycyrrh., sem. anisi ana 2lb., water 5 gall., boil to 3 gall.; strain, add sacchar. ust. 1lb., opii ʒjss, castor N. A., rad. valerianæ ana ʒx, camph. ʒij, S. V. R. 2 gall., digest, strain, and add to the above. This will fill 22 doz. bottles.

TINCTURE OF PSYCHOTRIA SULPHUREA. P. U S. Yellow, very bitter; used as a tonic.

JESUITS' DROPS, *Balsamum polychrestum*, *Elixir antivenereum*. Gum guaiaci. ʒvij, bals. Peruv. ʒiv, rad. sarsæ ʒv, S. V. R. lb. ijss.

BALS. GUAIA CINUM. Gum. guaiaci. lb. j, bals. Peruv. ʒij, S. V. R. lb. ijss; diaphoretic ʒj to ʒij; externally prevents suppuration.

ELIXIR PROPRIETATIS DULCE. Myrrh, aloes, croci ana ʒij, S. V. R. lb. ij.

Elixir aloes, *Tinct. aloes composita*. Tinct. myrrh lb. ij, aloes croci ana ʒij.

Tinct. aloes cum myrrha. Myrrh ʒij, S. V. R. lb. jss, water lb. ss; make a tincture, and add aloes ʒjss, croc. ʒj.

2. Gum. myrrh 12 oz., croc. in fœno 1 oz., aloes Soc. 8 oz., S. V. R. 5 pints, water 3 pints; the compound tincture of myrrh is frequently sold for it. Stimulant, stomachic, emmenagogue, ʒss—ʒjss, bis terve die.

Elixir proprietatis cum acido. To elixir proprietatis add spirit of vitriol till gratefully acid; stomachic ʒss—ʒjss.

Elixir proprietatis tartarizatum. Myrrh, aloes, croci, ana lb. j, tinct. salis tartari lb. xij: for patients with whom acids do not agree.

TINCTURE OF POPPY, *T. papaveris*. Poppies, every part except the root, dried in the shade and powdered ʒiv, proof spirit Oj; digest a week, and strain: produces about ʒvij or x; is about half the strength of tincture of opium.

RADCLIFF'S PURGING ELIXIR. Rad. jalap. 6 oz., aloes Cap. 5 oz., rad. gent. 2 oz., canell. alb. 1 oz. ʒiv, cort. aurant. 1 oz., gr. Parad. ʒiv, proof spirit 2 gall., steep for three weeks, strain, and add scam. Alep., jalap., fol. sennæ in powder ana 1 oz. ʒiv.

2. Tinct. aloes 2 pints, tinct. jalap., tinct. gent. ana 8 oz., proof spirit 2 pints, scam., r. jalap., fol. sennæ ana ʒiv.

3. Proof spirit, tinct. aloes ana 4 pints, tinct. gent., tinct. jalap. ana 2 pints, add pulv. jalap. 6 oz.

4. Aloes Soc. ʒvj, cinnam., zedoariæ ana ʒss, rad. rhei ʒj, coccin. ʒss, syr. rhamni ʒij, spir. ten. lb. j, aq. ʒv.

5. Hiera picra 1lb., S. V. R. 10 pints, water 14 pints, syr. spin. cerv. 4lb., coccin. 1 oz. : an inferior sort.

TINCT. PYRETHRI. Rad. pyrethri ʒj, sp. rorism. ʒviiij; used as a wash for the mouth, diluted with about twice as much water; sialogogue in toothach.

Ozley's tinct. of pyrethrum. Rad. pyrethri ʒx, spir. æther. sulphur. Oj, digest ten days, strain, add camph. ʒj, ol. rorism. ʒss, tinct. opii ʒij. M. Apply with lint to the painful tooth.

TINCTURE OF QUASSIA, *T. quassia*, *T. quassia excelsa*. Quas. ʒj, proof spirit lb. ij; bitter.

ALCOHOL DE QUININE. Sulphate of quinine gr. v; wine spirit at 43 deg. Baume ʒj: febrifuge, used to prepare the wine.

EAU DE RABEL, *Elixir vitrioli*. Ol. vitriol. 4 oz., S. V. R. 12 oz., both by weight; tonic, astringent, diuretic.

TINCTURE OF RHUBARB, *T. rhabarbari*, P. L. before 1788. Rhabarb. ʒjss, sem. cardam. min., croci ana ʒij, rad. glycyrrh. ʒj, proof spirit lb. j.

Tinct. rhabarbari spirituousa, T. rhabarbari, P. L. since 1788.

Tinct. rhei, P. L. Rhabarb. ʒij, sem. cardam. min. ʒss, croci ʒij, proof spirit lb. ij.

2. Rad. rhei 2lb., sem. cardam., gr. Parad. ana 6 oz., croc. in f. 3 oz., proof spirit 3 gall.

3. Rad. rhei 1lb., rad. glyc. 6 oz., zz. 2 oz., cardam. 1 oz., croci ʒij, S. V. R. 5 pints, water 3 pints.

4. Rad. rhei comm. 3lb., sem. cardam. 10 oz., croci 6 oz., S. V. R. water ana 3 gall., will strain about 44 pints.

5. Rad. rhei opt. 3lb., sem. card. 8 oz., croci 2 oz., S. V. R. 6 gall.; a superior article for retail sale.

Tinct. rhabarbari, P. D. The same as the London, but with rad. glyc. ʒss.

Tinct. rhei palmati, T. rhei, P. E. Rhabarb. ʒiiij, sem. card. min. ʒss, proof spirit lb. ijss by weight.

Bates's tincture of rhubarb. Rhad. rad. glycyrrh. ana ʒij, uvæ passæ stoned No. 40, sem. anisi ʒj, sacch. candi ʒvj, S. V. R. lb. ij; much the pleasantest in taste.

TINCT. RHABARBARI COMPOSITA, *T. rhei composita*, P. L. 1809. Rhabarb. ʒij, rad. glycyrrh. ʒss, zz. croci ana ʒij, proof spirit lb. xij, water lb. j.

Tinct. rhei composita, P. L. 1816. Species as the former, proof spirit lb. j, water ʒij.

Tinct. rhei et aloes, *Elixir sacrum*. Rhabarb. ʒx, al. Soc. ʒvj, sem. card. min. ʒss, proof spirit lb. ijss by wt.

Tinct. rhei et gentianæ, *T. rhei amara*. Rhabarb. ʒij, rad. gent. ʒss, proof spirit lb. ijss by wt.

All these preparations of rhubarb are stomachic, ʒj—ʒiij, and purgative in doses of ʒvj, producing costiveness after their operation is over; favourite remedies with spirit drinkers.

TINCTURA PISCIDIE ERYTHRINÆ. Tincture of the Jamaica dogwood, prepared with an ounce of the bark to twelve ounces of rectified alcohol. It is said by Dr. Hamilton, who introduces it, to be a powerful narcotic, anodyne, and diaphoretic. He considers it to be superior to the tincture of opium in its medicinal effects, and at the same time it does not produce those unpleasant symptoms, which frequently prevent our using the last-mentioned drug. In the West India islands it is employed to intoxicate the fish, in order that they may be more readily caught.—*Med. Bot. Trans.*

TINCT. OF RHATANY ROOT, *Tinctura rhatanæ*. Rad. rhatanæ 2 oz., proof spirit 1 pint: used in diarrhœa.

TINCT. RHATANÆ AROMATICA. Rhatan. rad. cont. ʒiij, canellæ cort. cont. ʒij, spirit. tenuior. O ij, digere per dies decem. et per chartam cola. As a stomachic and astringent, with a tonic infusion.

TINCT. RHODII. Rhodii ligni ras. ʒiv, spirit. rect. O j, macera per dies quatuordecim et cola. ʒ ss ʒj ter die in mucilaginous mixtures.

TINCT. RICINI. Sem. ricini q. p. S. V. R. sufficient to drown the seeds; dose 1 oz., purgative.

2. Dissolve castor oil q. p. in spirit of wine.

RYMER'S CARDIAC TINCTURE. Capsicum, camphire, lesser cardamoms, rhubarb, aloes, and castor, in proof spirit, with a few drops of oil of vitriol.

DAFFY'S ELIXIR, *Dacey's Daffy*, *Elixir salutis*. Fol. senn. ʒiv, ras. lign. guaiac., rad. enulæ sic., sem. anisi., sem. carui, sem. coriand., rad. glycyrrh. ana ʒij, uvar. pass. (stoned) ʒviij, proof sp. lb. vj.

SWINTON'S DAFFY. Rad. jalap 8 lb., fol. sennæ 12 oz., sem. coriand., sem. anisi, rad. glycyrrh., rad. enulæ ana 4 oz., S. V. R., water, ana 1 gallon.

2. Fol. sennæ, rad. rhei, sem. anisi ana 2 lb., rad. jalap., sem. carui ana 1 lb., sant. rubr. 8 oz., proof spirit 10 gall., brown sugar 4 lb.

3. Rhabarb. E. Ind. 40 lb., sennæ 15 lb., sant. rubr. 5 lb., sem. carui, sem. anisi, sem. coriandri ana 5 lb., cineres Russici 8 oz., S. V. R. 10 gall.; digest three days, then add proof spirit 80 gall., treacle 46 lb.

4. Rad. rhei 14 lb., sem. anisi 10 lb., sennæ parvæ 8 lb., rad. jalap. 4 lb., sant. rubr. 3 lb. 8 oz., ciner. Russ. 2 lb., S. V. R. 38 gall., water 18 gall.

5. Rad. enulæ, ras. guaiaci, sem. coriand., rad. rhei, rad. glycyrrh., sem. anisi ana 3 oz., raisins 1 lb. 8 oz., proof spirit 10 pints.

6. Rad. jalap. 3 lb., fol. sennæ 1 lb., sem. anisi 6 oz., sem. coriand. 4 oz., cort. aurant. sicc. 2 oz., proof spirit 2 gall.

7. Fol. sennæ 7 lb., rad. jalap. 5 lb., sem. anisi 14 lb., sem. carui 4 lb., sem. fœnic. dulc. 4 lb., brandy colouring 2 gall., S. V. R. 26 gall., water 24 gall.; let it stand three weeks, strain, washing out the last portions with water 2 gall., then add treacle 28 lb.

TINCT. SENNÆ, *T. sennæ*, P. L. Fol. sennæ lb. j, sem. carui ʒjss, sem. card. min. ʒjss, uvar. pass. ʒxvj, proof spirit 1 gall.

Tinct. sennæ, P. D. As the London, omitting the raisins.

Tinct. sennæ composita. Fol. sen. ʒij, rad. jalap. ʒj, sem. coriand. ʒss, proof spirit lb. ijss by weight; when made, add white sugar ʒiv.

A common remedy in flatulent colic, and used as a purge by those accustomed to spirit drinking: dose one, two, or three table spoonfuls.

TINCT. SATURNINA. Sugar of lead, green vitriol ana ʒij, S. V. R. lb. ij; used in phthisis.

OPODELDOC, *Soap liniment*, *Balsamum saponis*, *Linimentum saponaceum*, *L. saponis*, *L. saponis compositum*. Sapo. Castil. ʒij, camphor. ʒj, spir. rorisardini lb. j.

TINCT. SAPONIS COMPOSITA, *T. saponis camphorata*. Sapon. Cast. ʒiv, camph. ʒij, ol. rorisard. ʒss, S. V. R. lb. ij.

2. Sapo. moll. 16 lb., water 1 gall.: dissolve, add camph. 1 lb., dissolved in S. V. R. 1 gall., proof spirit 4 gall., ol. rorisard. 8 oz.

3. Sap. moll. 5 lb., camph. 12 oz., ol. rorisard. 2 oz., S. V. R. 10 pints, water 6 pints. Rubbed on the part in rheumatism; internally, gtt. lx, in gout.

STEEB'S OPODELDOC. Sapo. Cast. 3 lb., S. V. R. 3 gall., camph. 14 oz., ol. rorisard. 3 oz., ol. origani 6 oz., aq. ammon. pur. 2 lb.

2. Sap. alb. 1lb., camph. 2 oz., ol. rorism. ana 3iv, S. V. R. 2 pints.

3. Sap. alb. 1lb., camph. 4 oz., ol. origani, ol. rorism. ana 3iv, S. V. R. q. v.: it will bear near 6 pints.

4. Sap. alb. 3lb., camph., ol. rorism. ana 6 oz., spir. am. comp. 4 oz., S. V. R. 4½ gall.

5. Sap. alb. 4 oz., camph. 1 oz., ol. rorism. 3ij, ol. origani gtt. xxx, S. V. R. 1 pint, water half a pint.

TINCT. OF SALT OF TARTAR, *T. salis tartari*. Melt 6 oz. of salt of tartar in a crucible; powder it while hot, and immediately pour upon the powder a quart of spirit of wine, digest it for several days, and decant.

TINCT. OF SQUILLS, *T. Scillæ*. Fresh squills 3iv, proof spirit lb. ij; expectorant, diuretic, gtt. x to xxx.

TINCT. OF SNAKE ROOT, *T. serpentariæ Virginianæ*. Rad. serp. 3ij, tinct. salis tartari lb. j.

Tinct. serpentariæ. Rad. serpent. 3iij, proof spirit 2lb.

Tinct. aristolochiæ serpentariæ. Rad. serpent. 3ij, coccinel. 3j, proof spirit lb. ijss by weight. Diaphoretic, tonic, 3j—3iv.

STOMACH TINCTURE, *T. stomachica*, *T. cardamomi composita*, P. L. Cinnam. 3ss, sem. cardam. min., sem. carui, coccinel. ana 3ij, uvar. passar, stoned, 3iv, proof spirit lb. ij.

2. Use cassia buds for cinnamon, and only put half the cochineal; stomachic, 3j—3iij.

Tinct. cardamomi composita, P. D. The same, omitting the raisins.

TINCT. SARSAPARILLÆ.

SQUIRE'S ELIXIR. Opium 4 oz., camphor 1 oz., coccinel. 3j, fœniculi dulc. 3ij, tinct. serpent. 1 pint, spir. anisi 2 gall., water 2 pints, and add aur. musiv. 6 oz.

2. Rad. glycyrrh. 1lb., kali pp. 4 oz., coccinel. 1 oz., water 12 pints; boil till reduced to 1 gall., then add tinct. opii 12 oz., camph. 1 oz., S. V. R. 4 pints, aur. musiv. 12 oz.

3. Opii 1 oz. 3iv, camph. 1 oz., coccin., kali pp. ana 3j, burnt sugar 2 oz., tinct. serpent. 1 pint, sp. anisi 2 gall., aur. musiv. 8 oz.

ALCOHOL DE STRYCHINE. Strychnine gr. ijss, wine spirit at 36 deg. Baume, 3j; in palsy, gtt. vj to xxij.

STOUGHTON'S ELIXIR. Rad. gent. 2lb. 4 oz., rad. serpent. Virg. 1lb., cort. aurant. sicc. 1lb. 8 oz., cal. aromat. 4 oz., S. V. R. water ana 6 gall.

2. Rad. gent. 4lb., cort. aurant. 2lb., pis. aurant. 1lb., coecin. ʒij, sem. cardam. min. 1 oz., S. V. R. 8 gall.

EATON'S STYPTIC, *Tinct. styptica*. Green vitriol calcined 3 j, proof spirit, tinged yellow with a little oak bark, lb. ij.

2. Galls, crocus Martis ana 4 oz., proof spirit 1 gall.

3. S. V. R. coloured yellow with oak bark.

TINCT. OF SULPHUR, *T. sulphuris*. Hepar. sulph. ʒij, proof spirit lb. j; pectoral in coughs.

TINCT. THERIACALIS. Venice treacle, Mithridate ana lb. ss, proof spirit, strong vinegar ana lb. ij.—2. Aq. theriac. 2 gall. syr. croci 4lb.

FRIAR'S BALSAM, *Vervain's balsam*, *Wade's drops*, *Jesuits' drops*, *Wound balsam*, *Balsam for cuts*, *Baume du Commandeur*, *Balsamum traumaticum*, *T. benzoës composita*, *T. benzoini composita*. Benz. ʒij, stor. colati ʒij, bals. Tolu ʒj, aloes Socotr. ʒss, S. V. R. lb. ij.

Tinct. benzoin composita. Benz. ʒij, bals. Peru. ʒij, al. hepat. ʒss, S. V. R. lb. ij by weight.

2. Benz. 20 oz., styr. col. 12 oz., bals. Tolu 8 oz., gum guaiaci 1lb., aloes Cap., olibani, tereb. Venet. ana 8 oz., pulv. curcum. 1 oz., S. V. R. 2 gall., water 4 gall.

3. Benz. ʒij, al. Socotr. ʒss, S. V. R. xxxij; digest for two days, then add bals. Peru. ʒij.

4. Benz. 8 oz., gum. styr., gum. guaiaci (parv.) ana 6 oz., bals. Tolu, aloes ana 2 oz., bals. Peru. 1 oz., S. V. R. 1 gall.

BAUME'S VULNERAIRE. Scio turpentine 3 oz., S. V. R. 12 oz.

THIBAUT'S BALSAM. Myrrh, aloes, sang. dracon. ana 3 j, S. V. R. 6 oz.; dissolve, add flor. hyperici perfor. pug. j, steep twenty-four hours, strain with expression, to the strained liquor add tereb. e Chia ʒss. In common use for cuts and slight wounds; internally diuretic ʒss—ʒij, in gonorrhœa.

TAYLOR'S RED BOTTLE, *Whitworth doctor's red bottle*. British brandy coloured with cochineal, and flavoured with ol. origani.

USQUEBAUGH FLAVUM. Pimento, sem. anisi, sem. carui ana 3 oz., mace, cloves, nutmegs ana 2 oz., sem. coriand., rad. angel. ana 8 oz., croci, annotto ana 2 oz., sugar 6 oz., S. V. R. 6 gall.

Usg. viride. The same, using sap green in lieu of saffron and annotto.

TINCT. OF VALERIAN, *T. valeriana*. Rad. valerian. ζ iv, proof spirit lb. ij; antispasmodic, \mathfrak{z} ij— \mathfrak{z} ss.

ALCOHOL DE VERATRINE. Veratrine gr. iv., wine spirit ζ j; dose gtt. x to xxv.

TINCT. OF WHITE HELLEBORE, *T. hellebori albi*, *T. veratri*, *T. veratri albi*. Rad. helleb. albi ζ viij, proof spirit lb. ij. Sold in large quantities to make some unknown nostrum.

Vinum veratri, *V. hellebori albi*. Veratri rad. ζ viij, proof sp. Oj, water Ojss.

TINCT. OF GINGER. *T. zingiberis*, P. L. before 1824. *T. amomi zingiberis*. Zz. ζ j, proof spirit lb. j.

Oxley's concentrated essence of Jamaica ginger, T. zingiberis, P. L. 1824. Made with rectified spirit instead of proof.

THE DEVIL'S ELIXIR. (P. P.) Pods of capsicum bruised ζ ss, ginger bruised ζ jss, Spanish flies ζ ijss, saffron ζ jss, cloves bruised ζ ss, proof spirit lb. ijss. ζ ss— ζ ij. In impotentia; in mixtures.

MYNSICHT'S ELIXIR OF VITRIOL, *Acid elixir of vitriol*, *Elixir vitrioli Mynsichti*. Cinnam., zz., caryoph. ana ζ ij, cal. aromat. ζ j, galang. min. \mathfrak{z} jss, fol. salviæ, fol. menth. crispæ ana \mathfrak{z} ss, cubeb., nuc. mosch. ana ζ ij, lign. aloes, cort. citri ana ζ j, sacchar. cand. ζ ij, S. V. R. lb. jss, ol. vitrioli lb. j; digest twenty days.

Elixir vitrioli acidum. Tinct. arom. lb. j, ol. vitrioli. ζ iv by weight.

Acidum sulphuricum aromaticum. S. V. R. lb. ij, ol. vitrioli ζ vj, both by weight; mix, then add cinnam. \mathfrak{z} jss, zz. \mathfrak{z} j. Stomachic, astringent, gtt. x to xxx.

VAUQUELIN'S T. OF SPIRIT OF TURPENTINE. Sp. tereb. 5 oz. meas., wine spirit at 36 deg. Baume, 1 oz. by meas: does not become turbid on adding water.

VIGANI'S ELIXIR OF VITRIOL, *Sweet elixir of vitriol*, *Elixir vitrioli dulce*. Tinct. aromat. lb. j, spir. vitrioli dulce, ζ viij.

SP. ÆTHERIS AROMATICUS. Cinnam. ζ ij, sem. cardam. min. ζ jss, piper. longi, zz. ana ζ j, spir. æther. sulphurici lb. j.

ÆTHER SULPHURICUS CUM ALCOHOLE AROMATICUS. Species for tinct. cinnam. comp, P. E., æther. sulphur. c. alcoh. lb. ij: diuretic, diaphoretic, antispasmodic \mathfrak{z} ss to \mathfrak{z} ij.

WARNER'S CORDIAL. Rhabarb. ζ j, fol. sennæ ζ jss, croc. ζ j, rad. glycyrrh. ζ iv, uvarum pass. lb. j, spir. vini Gallici lb. ij.

GOUTTES AMERES. St. Ignatius's beans, or in their stead, nuces vomicæ, rasped, lb. j, aq. kali \mathfrak{z} ss, bistre \mathfrak{z} j, aq. absinth. min. comp. lib. ij; stomachic, gtt. j to viij, in any bitter infusion.

GOLDEN SMIRITS OF SCURVY-GRASS, *Sp. cochlearia purgans*
 Spir. coch. simpl. 1 gall., G. G. G. 8 oz.

ESSENCE OF COLTSFOOT. Tinct. bals. Tolut., bals. traumat. ana 2 oz., S. V. R. 4 oz.; used as a pectoral for coughs.

DE LA MOTTE'S GOLDEN DROPS, *Bestucheff's nervous tincture, Elixir d'or de M. le Général de la Motte.* Muriate of iron (obtained by distilling pyrites 6lb. with 12lb. of corrosive sublimate) ʒiij, alcohol ʒvj, exposed for some time to the rays of the sun; much used in gout, hypochondriasis, and nervous diseases. They have the remarkable property of losing their yellow colour in the sun, and recovering it in the shade.

TINCTURE OF IODINE, *T. iodii, T. iodinis.* Iodine gr. xl, S. V. R. ʒj: used in bronchocele, dose gtt. x, in syrop and water, thrice a day; the dose is to be gradually increased to gtt. xv. and xx. It will not keep, being soon converted into *ioduretted hydroiodic acid*, which however is perhaps equally effective.

ETHER SULFURIQUE IODURE. Iodine gr. v, ether sulf. ʒj: dose at most gtt. x.

Alcoholic solution of iodine for testing. Iodine ʒj, alcohol ʒiiij: used to discover starch in vegetables.

SOL. ALCOHOLIQUE DE DEUTO-IODURE DE MERCURE. Deuto-iodure of mercury gr. xvj. wine spirit at 36 deg. Baume: dose gtt. x. to xx.

Ether sulfurique avec le deuto-iodure de mercure. Deuto-iodure of mercury gr. xvj, ether sulf. ʒjss: stronger than the alcoholic tincture.

TINCT. ANTIMONII DIAPHORETICI. Antim. diaph. lb. j, salis petrae lb. iij, mix, keep in a strong melting heat for half an hour, pour into a mortar, powder, add while warm spir. vini tartarizati (alcohol, P. L.) lb. iij; digest three days: more elegant and fragrant than any of the other antimonial tinctures.

SALMON'S DROPS OF LIFE, *Guttae vite.* Opii ʒiiij, water lb. viij, dissolve, simmer for three days, strain, evaporate to lb. ij. Take croci in sceno ʒj, cast. Ross. ʒjss, coccinellæ, - rad. serp. Virgin. ana ʒss, nuc. mosch., -zedoariae ana ʒij, camphoræ ʒj, tinct. antim. diaphoretici lb. j; digest three or four days, then add the solution of opium, digest two days and decant: may be given from gtt. x to xl. A most excellent opiate.

2. T. castor ʒviij, vini antim. aq. ana lb. j, opii, croci, ana ʒss, cocci ʒij; very inferior.

TINCT. SUCCINI. Amber ʒiiij, in very fine powder, S. V. R. ʒxviij; digest in hot sand for several days, distil off half the spirit.

TINCT. TABACI. Tabaci foliorum concisi ʒjss, camphoræ pulv. ʒj, spirit. rectificat., aq. destillat. āā ʒiv; digere per dies octo et cola: as an anodyne; chiefly employed externally in painful affections and in inflammations of the eye.

FOR VETERINARY MEDICINES.

TINCTURE OF ALLSPICE. Jamaica pepper 8 oz., proof spirit 3 pints; dose half a pint diluted with 1 pint of water, in the gripes of horses.

FOR PERFUMERY AND COSMETICS.

ESSENCE OF AMBERGRISE, *Essentia ambrae griseae, T. ambrae griseae.* Ambr. gr. ʒj, S. V. R. ʒiij.

2. Amb. gr. ʒss, empty musk bags ʒss, S. V. R. a pint.

3. Amb. gr. mosch. ana ʒiv, sacch. alb. ʒj; grind, add ol. caryoph. gtt. x, bals. Peruv. gtt. xx, S. V. R. 2 pints; used as a perfume, and to add in small quantity to sweet scented spirits.

Tinct. of benjamin, Pectoral balsam of honey, T. benzoës. Benj. ʒij, S. V. R. lb. j; digest.—2. Benz., styr. calam. ana ʒj S. V. R. ʒviiij.—3. Benz. (or flor. benz.), styr. calam. ana ʒij, essent. jasmini ʒss, ol. lign. Rhod. ʒss, mosch., zibeth. ana gr. iiij, S. V. R. lb. ss; used to perfume clothes, or evaporate in sick rooms, or to mix with rose water, &c., to form extemporaneous milk of roses, as a cosmetic wash.

Essence of civette. Civette ʒj, S. V. R. lb. j; used as a perfume.

Essence royale. Ambergrise ʒij, musk ʒj, civette gr. x, ol. cinnam. gtt. vj, ol. lign. rhod. gtt. iiij, kali pp. ʒss; rub together, and add esprit de la rose, orange flower water ana ʒjss; aphrodisiac, a few drops in syrup of capillaire.

Vegetable extract. S. V. R. lb. jss, honey 4 oz., ess. of Bergam. ʒij, eau de melisse des Carmes lb. j.

Eau de Maréchale. Mosch. gr. xx, ess. Berg., ol. lavand., ol. caryoph. ana 1 oz., ess. ambr. gr. 2 oz., ol. sassafr. gtt. xv, ol. origani gtt. xx, S. V. R. 4 pints.—2. S. V. R. lb. jss, ess. of violet 1 oz., ess. of Bergam., ess. of œillets, of each ʒij, orange-flower water 8 oz.

Eau de millefleurs. S. V. R. 4 pints, musk gr. x, ess. lemons ʒjss, ess. ambergr. ʒij, ol. caryoph., ol. lavand. Angl. ana ʒj.

Essence of musk, T. moschi, Mosch. in gran. ʒij, S. V. R. lb. j; used to scent other bodies.

Ess. of nœroli. S. V. R. 8 oz., orange peel 6 oz., orrice root ʒij, ambergris gr. iiij.

Ess. d'oillettes. S. V. R. 8 oz., cinnam. 3 drachms, cloves 1 drachm.

Esprit de violettes. Flor. orrice root 4 oz., S. V. R. 2 pints; fragrant.

Ess. of violets. S. V. R. 8 oz., orrice root 2 oz.

Greenhough's tincture for the teeth. Amygd. amar. 2 oz., lign. Brass., baoc. cass. ana ʒiv, ireos Florent. ʒij, coccin., sal. acetosel. ver. alumin. ana ʒj, S. V. R. 2 pints, spir. cochlear. ʒiiij.

Ruspini's tincture for the teeth. Rad. ireos Flor. 8 oz., caryoph. arom. 1 oz., S. V. R. 2 pints, ess. ambr. gris. 1 oz.

Hudson's preservative for the teeth and gums. Tinct. myrrh., tinct. cinchonæ, aq. cinnam. ana ʒiiij, eau d'arquebusade ʒj, pulv. gum. Arab. ʒss.

Shaving liquid, shaving oil. Sap. moll. 4 lb., S. V. R. 5 pints.

Essence royale pour faire la barbe. Sap. Cast. 8 oz., proof spirit 1 pint.

Esprit de savon, Sp. saponis. Sap. Venet. ʒvj, sal. absinthii ʒj, gum benzoës ʒss, S. V. R. Oviiij,

2. Sapon. Aloensis rasi ʒviiiij, sal. absinthii ʒiiij, aquæ q. s., dissolve, filter, evaporate nearly to dryness; add S. V. R. lb. j, digest six days and filter: used for shaving.

FOR THE KITCHEN AND TABLE.

Essence of celery seed. Bruised celery seed 2 oz., brandy a pint, steep for 14 days.

Ess. of allspice;—Ess. of cinnamon; Ess. of nutmeg;—Ess. of clove;—Ess. of mace; Ess. of marjorum. Oils of the spices $\frac{1}{2}$ an oz., spirit of wine 1 pint: used to flavour gravy or mulled wine.

Ess. of ginger. Ginger, fresh grated, 3 oz., lemon peel 1 oz., brandy 2 pints; steep ten days.

Ess. of Cayenne pepper with brandy. Cayenne pepper 1 oz., brandy 1 pint; steep for 14 days, and strain.

Tincture of allspice;—T. of cinnamon;—T. of cloves;—T. of nutmeg. Bruised spice $1\frac{1}{2}$ oz., proof spirit 1 pint; steep 14 days.

Tinct. of savory spice. Black pepper 1 oz., powdered allspice $\frac{1}{2}$ an oz., grated nutmeg $\frac{1}{4}$ of an ounce., proof spirit 1 pint; steep 10 days.

Kitchiner's spirit of soup herbs. Lemon thyme, winter savory, sweet marjoram, sweet basil, of each $\frac{1}{2}$ an ounce., grated lemon peel, eschallots ʒav. drachms, bruised celery seed 1 av. drachm, proof spirit a pint; steep 10 days.

Essence of lemon peel. Lemon peel 6 oz., spirit of wine 8 oz.; steep.—Several other essences are used partly as medicines, partly in cookery. See the Index.

Quintessence of lemon peel. Spirit of wine 1 pint, ess. of lemons $\frac{1}{2}$ an oz.; dissolve: used to flavour punch, soups, jellies, and the like.

Tincture of orange peel. Orange peel 3 oz., proof spirit 2 pints: makes a fine ratafia with sugar.

Brandy bitters. Gentian 3lb., orange peel 2lb., cardamoms 1lb., cinnamon 8 oz., cochineal 2 oz., spirit of wine 6 gall., water 6 gall.

Mock arrack, Vauxhall nectar. Rum 2 pints, flowers of benjamin 20 grains.

Peppermint cordial. Oil of peppermint 75 drops, sugar 1 oz., grind together, add spirit of wine 1 pint, then mix it with spirit of wine 10 pints, water 10 gall., and fine with alum $\frac{1}{2}$ an oz.

USED IN THE ARTS.

Common varnish. Sandarac 8 oz., tereb. Venet. 6 oz., S. V. R. 2 pints.

Transparent varnish. Gum. junip. 8 oz., tereb. Venet. 4 oz., mastich 2 oz., S. V. R. 2 pints; used upon wood.

White varnish. Gum. junip. 1 lb., Strasburgh turpentine 6 oz., S. V. R. 2 pints; used upon paper, wood, and linen.

White hard varnish. Mastich 4 oz., gum. juniper., ter. Venet. ana 3 oz., pounded glass (to prevent the gums from forming an impenetrable mass) 3 oz., S. V. R. 2 pints; used upon cards, sheaths, &c.

White polishing varnish. Mastich in tears 2 oz., gum. juniper. 8 oz., gum. elemi 1 oz., tereb. Argent. 4 oz., S. V. R. 2 pints used upon metal, polished with pumice powder.

Transparent copal varnish. Spirit of wine, fully charged with camphire, 4 oz., copal in fine powder 1 oz., dissolve, filter, add the filtered liquor to S. V. R. 1 pint, in which gum. elemi 1 oz. has been previously dissolved.

2. S. V. R. 1 pint, camphire $\frac{1}{2}$ an oz.: dissolve, pour it upon copal in small pieces 4 oz.; heat it so that the bubbles that rise up may be counted; when cold, pour it off, and add more spirit to the residuum; used for pictures.

3. Copal, melted and dropped into water, 3 oz., gum. sandarac, 6 oz., mastich 3 oz., tereb. Argent. $2\frac{1}{2}$ oz., pounded glass 4 oz., S. V. R. 2 pints; used for metals, chairs, &c.

French polish. Shell lac 3 oz., mastich 1 oz., sandarac 1 oz., S. V. R. 40 oz.; dissolve in a gentle heat, making up the loss by evaporation.

Crystal varnish. Gum. mastich 3 oz., S. V. R. 1 pint.

Mauger's varnish. Spirit of wine 4 oz. meas., camphire ʒss, white resin and oil of rosemary, of each ʒj; dissolve: both are used to fix pencil drawings.

Silver wash. Gum. sandarac 1 oz., mastich half an oz., gum. benzoin ʒij, S. V. R. half a pint.

Indian varnish. Shell lac, seed lac, of each 5 oz., S. V. R. 2 pints; dissolve with a gentle heat and strain.

Hard spirit varnish. Seed lac, yellow resin, of each 1½ lb., S. V. R. 2 gallons.

Soft spirit varnish. Common resin 3 lb., seed lac 12 oz., S. V. R. 2 gallons.

Soft brilliant varnish. Gum. sandarac 6 oz., gum. elemi 4 oz., gum. anime 1 oz., camphor ʒiv, S. V. R. 2 pints; used upon wood and pasteboard.

Reddish varnish. Gum. sandarac 8 oz., laccæ in tabulis 2 oz., resinæ nigr. 4 oz., tereb. Venet. 6 oz., S. V. R. 2 pints; used upon wood and metals.

Lacquer. Seed lac, dragon's blood, annotto, gamboge ana 4 oz., saffron 1 oz., S. V. R. 10 pints.—2. Turmeric 1 lb., annotto 2 oz., shell lac, gum juniper, ana 12 oz., S. V. R. 12 oz.—3. Seed lac 3 oz., amber, gamboge ana 2 oz., extract of red sanders ʒss, dragon's blood ʒj, saffron ʒss, S. V. R. 2 pints 4 oz.—4. Turmeric ʒvj, saffron gr. xv, S. V. R. 1 pint 4 oz.: draw the tincture, add gamboge ʒvj, gum. sandarac, gum. elemi ana 2 oz., dragon's blood, seed lac ana 1 oz.; used upon metals and wood to give a golden colour.

Red varnish. Sandarac 4 oz., seed lac 2 oz., mastich, choice benjamin ana 1 oz., turpentine 2 oz., S. V. R. 2 pints; used for violins and cabinet work.

Black varnish. Gum. sandarac 8 oz., resin fl. 4 oz., lamp black 2 oz., S. V. R. 4 pints.—2. Spir. of wine 1 pint, black sealing wax suff. to colour it.

Varnish for iron or wood. Wood tar 1 gallon, spir. of wine half a pint; dissolve.

White copal varnish. Spir. of wine half a pint, copal in powder 3 oz., white resin half an oz.; in another bottle put spir. of wine three quarters of a pint, larch turp. 3 oz., head benzoin half an oz.; in a third bottle put spir. of wine three quarters of a pint, sanda-

rac 8 oz., mastich 1 oz.; in a fourth bottle spirit of wine one quarter of a pint, and elemi an oz.: keep warm for two or three days, then strain off the clear tinctures and mix them together.

Black copal varnish. Mix the bottoms of the tinctures for white copal varnish together for black or dark work.

Tincture of Brazil wood, Stain for crocus. Ground Brazil 8lb., aq. kali 8 oz., melasses spir. 15 gall.; used as a dye.

Tinct. of red sanders, Spirit stain. Santal. rubr. 6 oz., melasses spirit 1 gall.; used as a dye.

Tinct. of turmeric, T. curcumæ. From the root; used in dyeing the imitation Indian shawls yellow.

SYRUPS.

Syrups in general require 2lb. av. of sugar to the pint. They are judged to be sufficiently boiled when some taken up in a spoon pours out like oil; and when a thin skim appears on blowing upon the syrup, it is judged to be completely saturated; a bottle that holds 4 oz. Troy of water, ought to hold 4 oz. 3 drachms of syrup, equal to spec. gr. 1.321, or 35 degrees Baume.

Most syrups should be kept in small bottles, *capillaires*, in a cool place, and only a small quantity brought into the shop for present use; the larger serving bottles of the syrups in common use may have conical corks, with a wire passing through them, and having a ring at top; this would be far better than the mere tin cover now used, which seldom prevents the access of the flies.

To make clear syrups, the sugar must be in a single lump, and be taken from the bottom or broad end of the loaf, for if powdered or bruised the syrup will be cloudy. In boiling syrups, if they appear likely to boil over, a little oil will prevent it, or rubbing the edges of the pan with soap. The heat of syrup when sufficiently boiled down is 221 deg. Fahr., and its density 32 deg. Baume. The whites of 2 eggs, with the shells, will clarify 2 or 3 pints of a decoction for making syrup; the shells are put in, not to lose the white that adheres to them.

FOR MEDICAL USE.

SIMPLE SYRUP, *Syrupus simplex.* Sugar 30 oz. Troy to the pint. This serves as a general formula for making syrups when no proportion of sugar is expressly given.

SYRUP OF GARLICK, *Syr. allii.* Rad. allii lb. j, water lb. ij, sugar q. s.; expectorant, diuretic, ʒj—ʒij.

SYRUP OF MARSH-MALLOWS, *Syr. ex althæa, Syr. althææ.*

Fresh roots 1lb., water 1 gall.; boil to one half, press out the liquor, let it settle, add white sugar lb. iiij, and boil to lb. vj.

Syr. althææ officinalis. Fresh roots lb. j, water lb. x; boil to one half, add white sugar lb. iiij, and boil to a syrup; demulcent, ad libitum, in tickling coughs.

SYR. OF HORSE-RADISH JUICE, *Syr. armoracis.* Juice of horse-radish q. p., sugar q. s. to make a syrup; a spoonful swallowed slowly, removes hoarseness immediately; a more simple and efficacious medicine than the *syrupus de erysimo* of the old editions of the P. L.

SYR. OF MAIDENHAIR, *Sirop de capillaire, Syrupus capillorum Veneris.* Maidenhair 3v, stick liquorice 3ij, boiling water lb. vj; steep for six hours, strain, add white sugar lb. iiij.

Syr. pectoralis. Maidenhair 3v, stick liquorice 3iiij, boiling water lb. v, sugar q. s.

2. Maidenhair 1 oz., water 6 pints; steep, strain, add white sugar 8 lb., boil to a syrup, adding, when cold, orange flower water 2 oz. Common capillaire is sold for it.

SYR. OF CLOVE PINKS, *Syr. infusionis florum caryophyllorum, Syr. caryophyllorum rubrorum, Syr. caryophylli rubri, Syr. dianthi caryophylli.* Fresh petals of clove pinks, the white points being cut off, lb. ij, boiling water 6 pints; infuse for 12 hours, strain, and add white sugar q. s.

2. Clove pinks 1 peck, white sugar 24lb.; produces syrup 40lb. and a half. Syrup of cochineal is sold for it.

SYR. OF COCHINEAL, *Syr. coccinellæ.* Cochineal 3j, sugar 2lb. 1 oz., water a pint; used as a red colouring syrup. Sold for syrup of clove pinks.

SYR. OF CLOVES, *Syr. caryophyllorum aromaticorum.* Caryoph. 3iiij, white wine lb. j; infuse, strain, and add sugar q. s.: stomachic.

SYR. OF CINNAMON, *Syr. de cinnamomo.* Cinnam. 3iiij, boiling water lb. j; infuse, strain, and add sugar q. s.: stomachic.

SYR. CORALLII SIMPLEX. Red coral in powder 3iiij, juice of berberries lb. iiij; filter, to each pint add white sugar lb. jss; to each lb. add syr. caryoph. rubr. (e. coccin.) 3iv; astringent 3j—3j, in looseness.

SYR. OF SAFFRON, *Syr. croci,* P. L. before 1788. Croci 3j, vin. Canar. lb. j; infuse three days, press, and add sugar q. s.

Syr. croci, P. L. since 1788. Made with water instead of wine.

2. Croci 4 oz., coccin. 3ij, boiling water 1 gallon; strain and add white sugar 12lb.

3. Croci 3 oz., coccin. ʒiv, boiling water 1 gallon, sugar 16lb.

4. Croci in foeno 6 oz., water 12lb., white sugar 28lb., produced 40lb.; cordial, but since it has been made with water, used only to colour medicines.

SYR. OF QUINCES, *Syr. cydoniorum*. Succ. cydon. defæcati lb. iij, cinnam. ʒj, caryoph. arom., zz. ana ʒss; digest for six hours, then add vini rubri lb. j, sacch. albi lb. xv; astringent in looseness.

SYR. OF LIQUORICE. Rad. glycyrrh. ʒij, adianth. alb. ʒj, hyssop. ʒss, boiling water lb. iij; steep for twenty-four hours, press, add mell. opt., sacch. alb. ana ʒx, boil to a syrup; demulcent, ad libitum in coughs.

SYR. OF LEMON JUICE, *Syr. e succo limonum*, *Syr. succi limonis*, *Syr. limonis*. Juice, rendered clear by settling and subsequent filtering, 1 pint, white sugar lb. ij.

Syr. citri Medicæ. Juice, rendered clear as before, 3lb., sugar 5lb.; cooling, expectorant, pleasanter than oxymel.

SYR. OF MULBERRIES, *Syr. e succo mororum*, *Syr. succi mori*, *Syr. mori*. Is made in the same manner as the syrup of lemon juice.

2. Juice 7lb., water 1lb., coccin. ʒj, sacch. alb. 16lb.

3. Fruit 18 gall. produced juice 30lb., sugar 35lb.: produced 56lb. of syrup: grateful, cooling. Syrup of red poppies rendered blue by sulphuric acid is sold for it.

SYR. OF OPIUM, *Syr. opii*. Extr. opii aquosi gr. xvij, boiling water ʒviiij; dissolve, add sugar q. s.—2. Opium pur. 2 oz. ʒiiij, water 20lb., sugar 24lb.; boil to a proper consistence.—3. Extr. opii ʒiv, white sugar 10lb., water 6lb.—4. Extr. opii gr. xvj, simple syrup 1lb.—5. Simple syrup ʒj, tinct. opii gtt. xxv. Narcotic, ʒss to ʒj. Sold for the syrup of poppies.

SYR. OF POPPIES, *Syr. de meconio*, *Diacodion*, *Syr. papaveris albi*, *Syr. papaveris*, P. L. Poppy heads, without the seeds, ʒxiv, boiling water 2½ gall.; boil to one half, press out the liquor with great force, boil again 2 pints, strain while hot, boil down to a pint, and dissolve in it white sugar lb. ij.

2. Poppy heads, broken, 5lb. 4 oz., water q. s., sugar 35lb.

3. Broken heads 12lb., sugar 48lb., produced 67lb.: narcotic, ʒij—ʒss, or more. As the preparation is so troublesome, syrup of opium is sold for it: being dark-coloured many make it of treacle instead of sugar.

Syr. papaveris, P. D. Poppy heads lb. j, water lb. iij; boil, express, and evaporate to lb. j, strain, add sugar q. s. to make a syrup.

Syr. papaveris somniferi. Poppy heads lb. ij, water lb. xxx, sugar lb. iiij.

SYR. OF COWSLIPS, *Syr. e floribus paralyseos.* Is made as the syrup of clove pinks; slightly narcotic.

SYR. OF PEACH BLOSSOMS, *Syr. e floribus malorum Persicarum.* Peach blossoms lb. j, warm water lb. iiij; soak for a day, press out, and repeat the infusion with fresh flowers four times more; strain, and to three pints of the liquor add sugar lb. ijss, boil to a syrup; mildly cathartic: used for infants.

SYR. OF HOREHOUND, *Syr. de prassio, Syr. marrubii.* White horehound man. j, boiling water q. s. to strain a pint; infuse, strain, add sugar q. s. Is sold for any syrup of herbs that is demanded, and which is not in the shop.

SYR. OF RED POPPIES, *Syr. of corn roses, Syr de papavere erratico, Syr. papaveris erratici, Syr. rhæados.* Scald and steep wild poppy flowers lb. j, in boiling water ℥xviij, press out the liquor, let it settle, decant, and add white sugar lb. ijss.

2. Flowers 14lb., water 48lb., sugar 91lb., produced 182lb.; narcotic, but principally used to colour medicines.

SYR. OF RHUBARB, *Syr. de rhabarbaro.* Rhubarb., fol. sennæ ana ℥ijss, cinnam. jss, ginger ℥ss, warm water lb. iv; steep all night, strain, and boil to a syrup with white sugar lb. ij.

2. Rhubarb. E. Ind., fol. sennæ, raisins ana 4 oz., ginger ℥iv, white sugar 9lb., water 1 gall.; cathartic.

SYR. OF PALE ROSES, *Syr. rosaceus solutivus, Syr. rosarum solutivus.* Liquor left in distilling 6lb. of damask roses, boiled down to 3 pints; let it settle for a night, decant, add white sugar lb. v, and boil it till it weighs lb. viijss.

Syr. rosæ, P. L. before 1809. Damask rose petals dried ℥vij, boiling water lb. iiij; infuse, evaporate to lb. ijss, add sugar lb. vj.

Syr. rosæ, P. L. since 1809. The same, but made with pale rose petals.

Syr. rosæ centifoliæ. Fresh petals lb. j, boiling water lb. iv; infuse, add sugar lb. iiij; slightly purgative: used for children.

Syr. of red roses, Syr. de rosis siccis. Dried petals lb. ss, boiling water lb. iv; infuse, strain with expression, add sugar lb. j, boil to a syrup.

Syr. rosæ Gallicæ. Dried petals ℥vij, boiling water lb. v, sugar lb. vj; is slightly astringent, but more used as a red colour.

SYR. OF RUE, *Syr. rute.* Rue man. ℥j, boiling water q. s. to strain a pint, add sugar q. s.; antispasmodic.

SYR. SASSAPARILLÆ. Rad. sars. lb. j, aquæ 1 gall. ; boil to 4 pints, and add sugar lb. j.

SYR. ROSACEUS SOLUTIVUS CUM SENNA. Fol. sennæ ʒvj, sem. carui, sem. fœnic. duk. ana ʒiij, infusion of damask roses lb. iij, sugar lb. ij.

SYR. SENNÆ, P. L. 1815. Sennæ ʒij, sem. fœn. d. ʒj, boiling water lb. j ; infuse, strain, add manna ʒiij, sugar 1lb : purgative ; used for children ʒij to ʒss.

BALSAMIC SYROP, Syr. balsamicus, Syr. Tolutanus, P. L. 1788. Balsam of Tolu ʒviiij, water lb. iij ; boil for two hours in a still, and return what comes over ; strain, and add sugar ʒlxxx : syrup of benzoin, or storax is sold for it.

Syr. Tolutanus, P. L. 1809. Bals. Tolu ʒj, water lb. j ; boil in a close vessel, strain, add sugar lb. ij.

Syr. Toluiferæ balsami. Simple syrup lb. ij, tinct. bals. Tolu ʒj : M.

SYR. OF GINGER, Syr. zingiberis, P. L. before 1745. Root bruised ʒiij, white wine lb. j ; infuse warm for three days, strain, add sugar lb. jss.

SYR. ZINGIBERIS, P. L. since 1809. Root sliced ʒij, boiling water lb. ij, sugar lb. ij.

Syr. amomi zingiberis. Root sliced ʒiij, boiling water lb. iv, sugar lb. vijss ; carminative, stomachic.

SYR. OF CINCHONINE. Sulphate of cinchonine gr. xxxviij, simple syrup lb. j ; febrifuge.

SYR. OF MAGENDIE'S PRUSSIC ACID, Sirop cyanique. Medicinal Prussic acid ʒj, simple syrup lb. j.

SYR. OF EMETINE. Emetine gr. xiiij, simple syrup lb. j ; used as a syrup of ipecacuanha.

Syr. of pure emetine. Pure emetine gr. iij, simple syrup lb. j ; dose a teaspoonful : emetic.

SYR. OF GENTIANINE. Gentianine gr. xiiij, simple syrup lb. j.

SYR. OF LUPULINE. Tinct. of lupuline ʒj, simple syrup ʒvij ; the lupuline separates, hence the syrup must be well shaken when used.

SYR. OF MORPHIA. Acetate of morphia gr. iij, simple syrup lb. j ; narcotic, coch. min. j, every three hours.

SYR. OF QUININE. Sulphate of quinine gr. iij, simple syrup lb. j ; febrifuge, coch. ʒj, usually stops an intermittent.

SYR. OF SULPHATE OF MORPHIA. Sulphate of morphia gr. iij, simple syrup lb. j ; narcotic, taken alternately with syrup of morphia, for a change.

SIROP D'HYDROCYANATE DE POTASSE. Medicinal hydrocyanate of potash ʒj, simple syrup lb. j; used to form pectoral mixtures.

SYR. VOLATILIS. S. V. R. 1 pint, white sugar as much as it will dissolve; stimulant, anti-emetic.

SYR. OF GALL, *Syr. fellis.* Tincture of bullock's gall 1 oz., simple syrup 1lb.; mix: stomachic, promotes digestion, in doses of ʒj.

SYR. OF IPECACUANHA, *Syr. ipecacuanhæ.* Tincture of ipecacuanha in S. V. R. made as strong as possible, 1 oz., simple syrup 1lb.; mix: antidyenteric, expectorant, ʒj to ʒij, in larger doses ʒj to ʒjss, emetic.

2. Ipecacuanha 1 oz., boiling water 1 pint; infuse, strain, add sugar lb. ij: this is much weaker.

SIROP DE CUISINIÈRE. Rad. sarsap. lb. ij, rad. chinæ, lign. guaiaci ana lb. ij, aq. q. s. to strain lb. ij, add sacch. rubri, mellis ana lb. ij; to which some add corrosive sublimate, which is useless, as it is immediately changed to mercurius dulcis and precipitated.

LAUDANUM LIQUIDUM CYDONIATUM. Opii ʒiv, croci ʒij, succi cydoniæ lb. ijss, fermenti coch. iv. Ferment till the opium and saffron separate, then express and filter: to the liquor add cinnam. ʒij, caryoph. arom., lign. aloes, santali flavi ana ʒj, digest fourteen days, filter and evaporate to one half: narcotic and anodyne, gutt. x to xxx.

BRAITHWAITE'S GENUINE BLACK DROP. Opium sliced 8 oz., juice of crab apples 3 pints, nutmegs 1½ oz., saffron ʒij; boil till smooth, add sugar 4 oz., yeast 2 table spoonsful; keep it near the fire for six or eight weeks, and then place it in the open air till it becomes a syrup; decant, filter, and put it into small bottles, adding a little sugar to each bottle: these quantities should produce about 2 pints: one drop is equal to four of tincture of opium, and does not affect the head nearly so much.

ABBE ROSSEAU'S DROPS, *Guttæ seu laudanum Abbatis Rosseau, Vinum opiatum fermentatione paratum.* Mel. Narb. ʒxij, aq. calidæ lb. ij, set it in a warm place, and as soon as it ferments, add opii ʒiv dissolved in aq. ʒxij, let it work for a month, then evaporate to ʒx, strain, and add S. V. R. ʒivss.

NEUMANN'S LIQUID LAUDANUM. Opium fermented with water, and not evaporated farther than to the consistence of honey. See his laudanum amongst Electuaries.

GODFREY'S CORDIAL. Venice treacle, ginger ana 2 oz., S. V. R. 8 pints, ul. sassafr. ʒvj, water 8 gall, treacle 14lb., tinct. Theb. 4 pints.

2. *Sassafras* lb. j, zz. 4 oz., water 3 gall.; boil gently to 2 gall., add treacle 16lb., S. V. R. 7 pints, tinct. Theb. 1 pint.

3. Opium 8 oz., ol. carui, ol. sassafr. ana 5 oz., treacle 56lb., S. V. R. 1 gall., water 8 gall.

4. Opium ʒiv, treacle 4lb., boiling water 1 gall.; dissolve, add S. V. R. 2 oz., ol. sassafr. gtt. xl.

5. Sem. carui, sem. coriandri, sem. anisi ana 4lb., water q. s.; distil 16 gall., to which add opium 12 oz., ol. sassafr. 4 oz., dissolved in S. V. R. 2 gall., proof spirit 5 gall., treacle 84lb.: this is a good article.

6. S. V. R. 1 pint, tinct. opii 2 oz., ol. sassafr. ʒjss, water 10lb., treacle 7lb.

7. *Sassafr.* ʒix, sem. carui, sem. coriand., sem. anisi ana ʒj, aq. lb. vj; boil to lb. iv, strain, add treacle lb. vj, boil a few minutes, and when cold add tinct. opii ʒijj: anodyne, narcotic; chiefly used to prevent the crying of children, when in pain or starving.

DALBY'S CARMINATIVE. Tinct. opii ʒivss, tinct. ass. foet. ʒijss, ol. carui ʒijj, ol. menth. pip. ʒvj, tinct. castor. ʒvjss, S. V. R. ʒvj; put ʒij into each bottle with magnesia ʒj, and fill up with simple syrup and a little S. V. R.

OXYMEL, *Oxymel simplex*. Honey lb. ij, white wine vinegar lb. j; dissolve.

Syr. acetosus. White wine vinegar lb. ij, white sugar lb. v; dissolve.

Syr. acidi acetosi. White wine vinegar lb. ijss, white sugar lb. ijss; boil to a syrup: diluted with water forms acidulous drinks and gargles.

OXYMEL EX ALLIO. Vinegar lb. ss, sem. carui, sem. foen. dul. ana ʒij; boil, add garlick ʒss, cover, and when cold strain, then add honey ʒx.

OXYMEL COLCHICI. Fresh roots ʒj, distilled vinegar lb. j, soak for two days, press, to the liquor add honey lb. ij, and boil to a syrup; in asthma and dropsy ʒj, bis die, gradually increased.

MEL SCILLÆ. Mel. lb. iij, tinct. scillæ lb. ij.

OXYMEL OF SQUILLS, *Oxymel scilliticum*, *O. scillæ*, *Syr. scillæ*. Honey lb. iij, aceti scillæ lb. ij; boil to a proper consistence.

SYR. SCILLÆ MARITIMÆ. White sugar lb. ijss, aceti scillæ lb. ij; expectorant, detergent, ʒij to ʒijj; or in larger doses to children as an emetic.

OXYMEL E CREMORÆ TARTARI. Crem. tart. ʒij, mellis ʒxxiv, aquæ ʒvj; boil, in stone ware or glass, to the consistence of a syrup: for making electuarium gingivale.

FOR VETERINARY MEDICINE.

SYRUP OF BUCKTHORN, *Syr. de spinā cervina*, *Syr. spinæ cervinæ*. Juice of buckthorn berries full ripe lb. iv; steep ginger and allspice, ana \mathfrak{z} iv in 1 pint of it, then strain, boil the rest to lb. jss, mix the two liquors, and add sugar lb. ijss.

SYR. RHAMNI CATHARTICI. Juice clarified by settling 2lb., white sugar 3lb.

2. Juice 1 gall., brown sugar 12lb.

3. Juice 3 gall., brown sugar 28lb., piment. 6 oz. zz. 4 oz., produced 38lb.; cathartic, but apt to gripe, \mathfrak{z} ss to \mathfrak{z} jss, seldom used but in clysters, except by the farriers, who employ it very liberally.

FOR THE KITCHEN AND TABLE.

CAPILLAIRE, *Clarified syrup*. White sugar 24lb., water 16 pints, boil nearly to a syrup, clarify with white of 3 eggs, scum, and finish the boiling, adding, while warm, orange flower water 1 pint.—2. Gum. tragacanth. 3 oz., water 2 gall.: boil, strain, and make it up 3 galls.; add white sugar 24lb., clarify with the white of 5 eggs, and then add orange flower water $2\frac{1}{2}$ pints: this does not mix well with wine.—3. Lump sugar 8lb., water 1 gall.; boil, scum, and clarify with the white of an egg, when nearly cold add rose water 1 pint, put it up in very dry warm bottles; it may be coloured with brandy colouring if desired: nutritive, restorative, an elegant addition to pump water in summer time; sold for sirop de capillaire.

Capillaire. Simple syrup 1 pint, curaçoa a wine-glassful.

Syr. of berberries, *Syr. de berberis*. Juice, cleared by settling, lb. ij, white sugar lb. jss, boil to a syrup.

Syr. of raspberries, *Syr. rubi Idæi*. Juice lb. ij, sugar lb. iv \mathfrak{z} ij; dissolve: a grateful acid cooler.

Syr. of elderberries, *Syr. sambucinus*. Juice of the berries q. p. sugar q. s. to make a syrup.

Syr. of black currants, *Syr. e ribis nigris*. As syrup of lemon juice; cooling.

Syr. of red currants, *Syr. e ribis rubris*. Press out the juice; strain, put it into a glass or china vessel, cover with paper in which holes are pricked, expose it to the sun for a fortnight, take off the crust at top, add to each 4lb. of the clear liquor, 7lb. of sugar, and give it a quick boil: this preparation prevents any further fermentation.

Syr. of orange peel, *Syr. e corticibus aurantiorum*, *Syr. corticis*

aurantii, *Syr. aurantii*, *Syr. citri aurantii*. Yellow part of Seville orange peel ʒij, boiling water lb. j; steep for a night, decant and add refined sugar lb. iij.—2. Orange peel 1½ lb., white sugar 24 lb., water 2 gall.; stomachic.

Syr. of orange juice, *Syr. e succo aurantium*. Juice of oranges, strained and clarified, lb. j, white sugar lb. ij: stomachic, drank in water; also used for making punch, and mixing with melted butter for puddings.

Syr. of lemons. Lemon juice 1 pint, white sugar 1¾ lb., thin pared lemon peel 1 oz.—2. Clarified syrup 1 pint, citric acid ¼ oz., lemon peel j oz.—3. Syrup of lemon peel ½ pint, simple syrup ½ pint, citric acid ¼ oz.

Syr. of lemon peel. Lemon peel 3 oz., boiling water 1½ pint, steep for a night, strain, and add white sugar 2 lb.

Syr. of nutmegs, *Syr. nucum moschatarum*. Nutmegs ʒiij, white wine lb. j; infuse three days, strain, add sugar lb. jss; stomachic, stimulant.

Syr. of hermes, *Syr. alkermes*. Juice of kermes 1 lb., white sugar 4 lb.: dissolve.

Alkermes. Bay leaves 1 lb., mace 1 lb. 4 oz., nutmeg and cinnamon of each 2 oz., cloves ʒvj, white cogniac brandy 28 pints, steep three weeks, strain, distil 24 pints, add syrup of kermes 18 lb.: much used in Italy; every distiller's has a different flavour: this approaches very near to that of alkermes de Santa Maria novella.

Confectio alkermes. Sugar lb. j, rose water ʒvj; dissolve, add juice of kermes lb. iij, ol. cinnam. ʒj; the older recipes ordered a little gold leaf to float about in it, also musk and ambergris; stimulant.

Ratafia d'angelique. Angelica seeds ʒj, stalks of angelica, bitter almonds blanched ana 4 oz., proof spirit 12 pints, white sugar 2 lb.; digest, strain and filter: carminative.

Ratafia d'anis. Anise seed 2 oz., proof spirit 4 pints, sugar 10 oz.: it may be made of star anise seed.

Huile d'anis. Anise seed 2 oz., S. V. R. 4 pints, simple syrup 4 lb.: tincture of vanilla may be added.

Anisette de Bourdeaux. Sugar 9 oz., oil of anise seed gtt. vj; rub together, add by degrees S. V. R. 2 pints, water 4 pints: filter.—2. Cogniac brandy 6 pints, simple syrup 1 lb., anise seed water ¼ pint.

Eau de vie d'Andaye. The same ingredients as the former, but less sugar and oil.

Ratafiu de caffè. Roasted coffee, ground 1 lb., proof spirit 1 gall., sugar 20 oz.; digest for a week.

Ratafia de caëris. Ripe black currants 6lb., cloves 3ss, cinnamon ʒj, proof spirit 18 pints, sugar 3lb. 8 oz.; digest for a fortnight.

Ratafia des cerises. Morello cherries with their kernels bruised 8lb., proof spirit 8 pints; digest for a month, strain with expression, add sugar 1lb. 8 oz.

Ratafia de Grenoble. Small wild black cherries with their kernels bruised 12lb., proof spirit 6 gall.; digest for a month, strain, add sugar 12lb., a little citron peel may be added at pleasure.

Ratafia de cacao, R. de chocolat. Caracca cacao nuts roasted 1lb., West India cacao nuts roasted 8 oz., proof spirit 1 gall.; digest for a fortnight, strain, add sugar 1lb. 8 oz., tinct. of vanilla gtt. xxx.

Clairet, Rossalis des six graines. The seeds of anise, fennel, dill, corriander, carui, and daucus Creticus of each 1 oz., proof spirit 4 pints, sugar 1lb.

Ratafia de coings. Juice of quinces 6 pints, cinnam., ʒiij, coriander seed bruised ʒij, cloves bruised gr. xv, mace ʒss, bitter almonds ʒiv, S. V. R. 3 pints; digest for a week, add sugar 2lb. 8 oz.

Escubac, Usquebaugh. Saffron 1 oz, juniper berries ʒiv, dates without their kernels, raisins ana 3 oz., jubebs 6 oz., anise seed, mace, cloves, coriander seed ana ʒj, cinnam. ʒij, proof spirit 12 pints, simple syrup 6lb.; pectoral, emmenagogue.

Ratafia de framboises. Raspberries 8lb., proof spirit 4 pints, sugar 12 oz.

Ratafia de genièvre. Dried juniper berries not bruised 2 oz., proof spirit 4 pints, sugar 10 oz.

Ratafia de brou de noix. Young walnuts, whose shells are not yet hard, no. 60, brandy 4 pints, sugar 12 oz., mace, cinnamon, cloves, ana gr. xv; digest for two or three months, press out the liquor, filter, and keep it for two or three years: stomachic.

Ratafia de noyaux. Peach or apricot kernels, with their shells bruised, no. 120, proof spirit 4 pints, sugar 10 oz.—2. Reduce the S. V. R. to proof, with the juice of apricots or peaches, to make this liqueur.

Crème de noyaux. Bitter almonds blanched 4 oz., proof spirit 2 pints, sugar j lb.—2. Bitter almonds 4 oz., coriand. seed ʒij, cinnam. ʒj, mace ʒj, linseed half an oz., gin or proof spirit 4 pints, white sugar 1lb. 8 oz., ginger ʒj, boiling water 2lb., alum ʒij.

Ratafia d'œillets. Clove pinks, the white heels pulled off, 4lb., cinnamon, cloves ana gr. xv, proof spirit 1 gall., sugar 1lb.

Ratafia à la Provençale. Striped pinks 1lb., proof spirit 2 pints, sugar 8 oz., juice of strawberries 11 oz., saffron gr. xv.

Ratafia d'écorces d'oranges. Fresh peel of Seville oranges 4 oz., proof spirit 1 gall., sugar 1lb.; digest for six hours.

Ratifa de fleurs d'oranges. Fresh flowers of the orange tree 2lb., proof spirit 1 gall., sugar 1lb. 8 oz.: digest for six hours only.

Huile de vanille. S. V. R. 2 pints, simple syrup 2lb., tincture of vanilla q. s.

Syr. of vanilla. Vanilla 2 oz., in small pieces, powdered sugar 17 oz., water 10 oz., spirit of wine $\frac{1}{4}$ oz.; rub down, add the white of an egg, cover the pot with a paper that has a pin hole in it, and keep it in a vessel of warm water for a whole day, let it stand 24 hours, and strain; used to flavour liqueurs, and ices: 1 oz. is equal to ss of vanilla.

Vespetro. Angelica seed 2 oz., coriander seed 1 oz., fennel seed, anise seed ana 3ij, lemons sliced, no. 2, proof spirit 4 pints, sugar 1lb.

Ratafia à la violette. Flor. orrice root 3ij, archel 1 oz., S. V. R. 4 pints: digest, strain, and add sugar 4lb.

Fenouillette de l'île de Rhé. Fennel seed 2 oz., herb of the same 8 oz., S. V. R. 2 pints, water 4 pints, sugar 10 oz.—2. White wine 60 gall., fennel seed bruised a handful, or a whole plant of fennel; distil.

Elephant's milk, Urine d'éléphant. Benjamin 2 oz., S. V. R. 1 pint, boiling water $2\frac{1}{2}$ pints; when cold, strain, and add sugar 1lb. 8 oz.

Ratafia de baume de Tolu. Balsam of Tolu 2 oz., S. V. R. 1 pint, boiling water 3 pints, sugar 1lb. 8 oz.

Citronelle, Eau de Barbades. Fresh orange peel 2 oz., fresh lemon peel 4 oz., cloves 3 ss, coriander 3j, proof spirit 4 pints; distil in B. M. and add white sugar p. æq.

Crème des Barbades. Orange peels, lemon peels, ana no. 3, cinnamon 4 oz., mace 3ij, cloves 3j, rum 18 pints; distil in B. M. and add sugar p. æq.—2. Lemons sliced, no. 24, citrons sliced no. 6, S. V. R. 2 gall. 4 pints, fresh balm leaves 8 oz., water 3 gall. 4 pints; digest for a fortnight, strain.

Cedrat. Lemon peels no. 12, S. V. R. 2 gall.; distil in B. M. and add simple syrup p. æq.

Parfait amour. The same, coloured with a little cochineal.

Marasquin de groseilles. Gooseberries quite ripe 100lb., black cherry leaves 12lb.; bruise and ferment; distil and rectify the spirit: to each pint of this spirit add as much distilled water, and sugar 1lb.

Huile de Venus. Flowers of the wild carrot, picked, 6 oz., S. V. R. 10 pints; distil in B. M.; to the spirit add as much syrup of capillaire; it may be coloured with cochineal.

Eau divine. S. V. R. 1 gall., ess. of lemons, ess. of Bergamotte ana 3j; distil in B. M. add sugar 4lb., dissolved in pure water 2 gall., and lastly, orange flower water 5 oz.

Brandy shrub. Brandy 9 pints, lemon juice, orange juice ana 1 pint, orange peels no. 4, lemon peels no. 2, sugar 2lb., water 5 pints.

Rum shrub. The same, using rum instead of brandy.—2. Concrete acid of lemons 8 oz., water 5 gall., raisin wine 4 gall., rum 10 gall., orange flower water 4 pints, honey 6lb.—3. Orange juice 2 pints, rum 8 pints, sugar 1lb. 8 oz.

Punch shrub. Lemon juice or lime juice 1½lb.; strain, and add white sugar 4lb., rubbing part of it upon 12 of the lemons to get off the yellow peel before squeezing them, rum 4 pints: used to make punch by putting half a pint into 2 pints of hot infusion of tea; it will take about 25 lemons, or twice that number of limes.

Lemonade shrub. Juice of 8 lemons, juice of berberries 3 oz., white sugar half an oz., white wine half a pint; may be diluted at pleasure to make lemonade or sherbet. In hot countries use orange juice, as lemon or lime juice is apt to produce cholera.

Curaçoa. Melasses spirit 1 gall., Seville orange peel cut thin, dried, and powdered, 1lb., steep fourteen days; strain, add simple syrup 1 gall.

Creme d'orange. Oranges sliced no. 36, S. V. R. 2 gall., sugar 18lb., water 4 gall. 4 pints, tincture of saffron 1 oz. ʒiv, orange flower water 4 pints; digest for a fortnight, strain.

Sportsman's cordial, Eau de chasseurs. Peppermint water, S. V. R. of each 1 pint, white sugar 8 oz.

All the above liqueurs are stimulant, and taken ad libitum for pleasure.

Liqueurs are also made by adding Hungary water, honey water, eau de Cologne, and several other spirits, to an equal quantity of simple syrup, or common capillaire.

Hippocras. Canary, Lisbon ana 12 pints, cinnam. 2 oz., canel. alb. ʒiv, caryoph., macis, nuc. mosch. zingib., galang. ana ʒj; digest three days, strain, add white sugar 40 oz.

Elixir de Garus. Myrrh, aloes ana ʒjss, cloves, nutmegs ana ʒij, saffron ʒj, cinnamon ʒvj, S. V. R. 1 gall.; distil 9 pints, then make an infusion of maidenhair 4 lb., liquorice root ʒiv, figs 3 oz., in boiling water 1 gall.; strain with expression, dissolve in it

white sugar 12lb., add orange flower water 12 oz. : to each pound of this syrup add half its weight of the distilled spirit, and keep it for some time in a cellar.

2. Myrrh. ʒiv, aloes, croci ana ʒij, cinnam., caryoph., nuc. mosch. ana ʒj, proof spirit 2 pints; make a tincture, strain, add syr. capilli Veneris lb. ij, aq. flor. aurant. ʒxij.

Huile liquereuse des fleurs d'oranges. Orange flower water, simple syrup ana p. æq.

Huile liquereuse de la rose, Julepum rosatum. Rose water, simple syrup ana p. æq.

Colour for brewing, Brandy colouring, Essentia binæ. Brown sugar melted until it begins to grow bitter, and then made into a syrup with lime water: used to colour liquors.

Browning. Lump sugar 8 oz., water a table spoonful; heat it to a brown colour; add salt 1 oz., and dilute with water to the thickness of Japan soy: used to colour sauces.

Raspberry vinegar, Oxysaccharum rubi Idæi. Raspberries 3lb., vinegar 2 pints, white sugar 3lb.: produce 3 pints of vinegar.

FOR USE IN THE ARTS.

Solution of burnt sugar. Burn white sugar until the vapours are copiously disengaged, and the brown, almost black, matter sticks to the vessel; add warm water to form a solution, to every oz. measure of which add spirit of wine ʒjss to keep it: when used, dilute it with more water that the shade of colour may be perceived: used as a measure of the discolouring power of charcoal.

Syr. of red cabbage, Syr. brassicæ rubræ. Juice of red cabbage lb. ij, sugar lb. v, make a syrup; some steam the leaves before they press them.—2. Leaves q. p. boiling water q. s. to cover them; infuse, strain, add sugar q. s.; pectoral, much used in some places.

Syr. of violets, Syr. violarum, P. L. before 1745. Fresh flowers lb. j, boiling water lb. ijss; infuse for a day, press out the liquor; in every 2 pints dissolve sugar lb. iv; scum, and boil to a syrup.

Syr. e succo violarum. Juice expressed from the flowers lb. j, sugar lb. ij, or rather more; boil to a syrup.

Syr. violarum, P. L. since 1745, Syr. violæ, Syr. violæ odoratæ. From the infusion strained through a fine cloth, carefully avoiding the least pressure.

The syrups of logwood, columbine flowers, purple flag, blue-bottle, litmus, red cabbage, and even indigo scented by iris root,

are sold for it: that of indigo does not strike red with acids. Used as a colouring syrup, or gentle laxative for infants; but mostly as a test for acids.

XII. COMPOUNDS,

NEITHER LIQUID NOR OILY.

CONSERVES.

IN making conserves, the sugar requires the same attention as in making syrups; and when made, the conserves should be put into a stone pot, covered only with a paper, and let to stand two or three weeks in the sun, stirring them once or twice a week.

FOR MEDICAL USE.

MEL HELLEBORATUM. Rad. helleb. alb. lb. j, water lb. iv; soak, boil, press out the liquor, strain again, add honey lb. iiij, and boil to a proper consistence; cathartic, in mania.

HONEY OF ROSES, *Mel rosatum, M. rosaceum, M. rosæ.* Dried red roses \bar{z} iv, boiling water lb. iiij; infuse, strain, add honey lb. v, and boil down: used in cooling detergent gargles.

ROB DYACARYON. Juice of green walnut husks 4lb., honey 2lb.; boil down: stomachic \bar{z} j to \bar{z} ss: about 50 walnuts yield 2 pints of juice.

ROB DIAMORUM. Juice of mulberries 4lb., honey 2lb.; boil down: cooling.

CONSERVE OF WORMWOOD, *Conserva absinthii maritimi.* Leaves lb. j, sugar lb. iiij; heat or grind into a conserve: tonic stomachic.

CONS. COCHLEARIE HORTENSIS. Leaves lb. j, sugar lb. iiij; stimulant, antiscorbutic.

CONS. OF HIPS, *Cons. cynobati, Cons. fructus cynobasti, Confectio rosæ caninæ.* Fruit carefully separated from the seeds and their down lb. j. sugar \bar{z} xx.

CONS. ROSÆ CANINÆ. Fruit pulped lb. j, sugar lb. iiij; cooling.—2. Hips 231 lb., before pulping, after being pulped and beat up with white sugar 216 lb, produced 388 lb.

CONS. OF MINT, *Cons. menthæ foliorum, Cons. menthæ sativæ.* Leaves lb. j, sugar lb. iiij; allays vomiting.

CONS. OF RED ROSES, *Cons. florum rosarum rubrarum, Cons. florum rosæ rubræ, Cons. rosæ rubræ, Confectio rosæ Gallicæ, Cons. rosæ Gallicæ.* Petals lb. j; sugar lb. iiij; astringent.

CONS. OF ROSEMARY, *Cons. roris marini*.

CONS. OF RUE, *Cons. rutæ foliorum*.

CONS. OF ORANGE PEEL, *Cons. corticum aurantium*, *Cons. flavedinis corticum aurantium Hispalensium*, *Cons. corticis exterioris aurantii Hispalensis*, *Confectio aurantium*, *Cons. aurantii*, *Cons. citri aurantii*. Yellow part of the peel of Seville oranges lb. j, sugar lb. iiij; stomachic.

MARMALADE OF SLOES. *Pulpa prunorum sylvestrium condita*, *Cons. prunorum sylvestrium*, *Cons. prunæ sylvestris*. Soften the sloes by simmering them over the fire in a little water, taking care they do not burst, pulp them through a sieve, add to the pulp three times its weight of sugar; astringent.

Cons. ari. Fresh roots lb. ss, sugar lb. jss; diuretic, attenuant.

Cons. scillæ. Fresh squills ʒj, sugar ʒx; diuretic, attenuant.

FOR THE TABLE.

BARBERRY JELLY, *Rob de berberis*. Juice of barberries strained 1 pint, sugar ʒvj; boil down to a jelly.—2. Juice and sugar ana p. æq.; boil down: refrigerant.

Kentish cherry jelly, *Rob de cerasis*. Kentish cherry juice, strained, 1 pint, sugar ʒvj; boil down: refrigerant.

Cornelian cherry jelly, *Rob de cornis*. Cornelian cherries lb. j; boil in a little water, pass through the sieve, add sugar ʒvj, and boil down.

Quince jelly, *Rob cydoniorum*. Juice of quinces, cleared by settling awhile, lb. vj; boil to lb. ij, add sugar ʒvj, and boil down.

Quince marmalade, *Diacydonium*. Flesh of quinces, boiled soft in water, lb. viij, white sugar lb. vj, boil to a jelly, and pour into moulds.

Rob prunorum acidorum. Unripe plums 8 lb, white sugar 7 lb.

Currant jelly, *Rob de ribes*. Juice of red currants lb. j, sugar ʒvj; boil down; a sieve of currants produced 12lb. of juice.—2. Juice of red currants, white sugar ana p. æq., stir it gently and smoothly for three hours, put it into glasses, and in three days it will concrete into a firm jelly.

Rob of elderberries with sugar, *Rob haccarum sambuci cum saccharo*. Juice lb. iiij, sugar lb. j; boil down: detergent, used in gargles.—2. Juice 16 gall., sugar 87., produced 130lb.

Apple jelly. Apple juice strained lb. iiij, sugar lb. ij; boil to a jelly.

Strawberry jelly. Juice of strawberries lb. iiij, sugar lb. ij; boil down.

Gooseberry jelly. Dissolve sugar in about half its weight of water, boil; it will be nearly solid when cold: to this syrup add an equal weight of gooseberry juice, and give it a boil, but not long, for otherwise it will not fix.

Gooseberry jam. A sieve of red gooseberries, picked, weighed 22lb., which with 12lb. of white sugar, produced 26lb. of jam.

Damson cheese. Boil the fruit in water q. s. to cover it, and pulp through a very coarse sieve, to each pound add sugar 4 oz., boil till it begins to candy on the sides, then pour it into tin moulds. Other kinds of plums may be treated in the same way, as also cherries and several kinds of fruit.

Raspberry jam. Picked raspberries, white sugar, of each 14lb., produced 27lb. of jam; 24 gall. of raspberries produced 17lb. of juice.

Apricot jam. Flesh of apricots, white sugar, of each 2½lb., produced 4½lb. jam: 6 doz. apricots, stoned and pared, produced 2½lb. of flesh.

Scotch marmalade. Juice of Seville oranges 2 pints, yellow peel of the oranges cut small, yellow honey 2lb.; boil to a proper consistence.

Marmalade of hips. The hips of *Rosa systyla* and *R. arvensis* make a fine flavoured conserve, that may be used as an excellent sweetmeat.

Marmalade of wood sorrel, Cons. foliorum lujulæ, Cons. lujulæ. Leaves of wood sorrel lb. j, sugar lb. iij; gratefully acid, of an elegant red colour, cooling.

Essence of lemon peel.—Ess. of Seville orange peel. Rub off the yellow rind of these fruits with hard white sugar, and press the essence into a pot.

ELECTARIES.

Under the name of electaries physicians include all solid or pulpy mixtures of different substances which are not of an oily nature, but more or less soluble or diffusible in water. The name electarium has been usually written electuary; but Cælius Aurelianus, the most ancient author who uses the word, writes it electarium. Gum tragacanth does not answer for electaries, as it renders them slimy when long kept.

FOR MEDICAL USE.

ELECTARIUM E BACCIS LAURI. Fol. rutæ sicc., sem. carui, sem. petrosel. vulg., bacc. lauri ana ʒj, sagapeni ʒss, piper. nigri, castor. Russ. ana ʒij, mel. ʒ xv.

CONFECTIO RUTÆ. Fol. rutæ sicc., sem. carui, bacc. lauriana \mathfrak{zjss} , sagapeni \mathfrak{zss} , pip. nigri \mathfrak{zj} , mell. \mathfrak{zxxv} : antihysteriæ, \mathfrak{zss} to \mathfrak{zj} ; in clysters carminative, \mathfrak{zj} to \mathfrak{zj} , in flatulent colic.

DIACORALLION. Corall. albi. - coral. rubri. - boli Armen. veræ - sang. draconis ana \mathfrak{zj} , margaritarum \mathfrak{zss} , lign. aloes. - rosar. rubr. - gum. tragacanthæ, - cinnam. ana \mathfrak{zj} , ligni santali albi et rubri ana \mathfrak{zj} , sacchari in aq. cinnam. tenui soluti four times the weight of the species; an elegant absorbent.

DIASCORDIUM, *Electarium e scordio.* Species e scordio cum opio lb. j, syr. papav. alb. lb. iij; alexiterial, antispasmodic, astringent \mathfrak{zj} to \mathfrak{zjij} .

MITHRIDATIUM, *Confectio Damocratis.* Cinnam. \mathfrak{zxxiv} , myrrhæ, - agarici, - nardi Indicæ, - zz., - croci, - sem. thlaspis, - thuris, - terebinth. Chiæ ana \mathfrak{zxx} , junci odorati, - costi (or zedoar.), fol. malabathri (or macis), stœch. - piper. long. - sem. seselis, - succ. hypocist. - styr. colati. - opopan. - galbani col. - opobalsami (or ol. nuc. mosch. expr.), castor. Russ., ana \mathfrak{zj} , polii, - scordii, - carpo-balsami (or cubeb.), pip. alb. - sem. dauci Cret. bdellii ana \mathfrak{zvj} , nardi Celticæ, - rad. gent. - fol. dictam. Cret. - ros. ros. rubr. - sem. petrosel. Macedon. - sem. cardam. min. - sem. fœnic. dulc. - gum. Arab. - opii colati (dissolved in wine) ana \mathfrak{zvj} , rad. calam. arom. - rad. valer. sylv. - sem. anisi, - sagapeni ana \mathfrak{zjij} , mei athamant. - hyperici, - acaciæ (or terr. Jap.), ventrii scincorum ana \mathfrak{zjss} , honey three times the weight of the species: astringent, narcotic, but less so than Venice treacle, \mathfrak{zj} to \mathfrak{zj} .

2. Cass. lign. 2 oz, gum. thuris, - zz. - croci ana 1 oz. \mathfrak{ziv} ., myrrh. - galbani, - styr. fol. scordii, sem. fœnic. dulc. - opii, - cal. arom. - sem. anisi, - pip. longi, - cubeb. - castor. - valerianæ, - cardam. min. ana 1 oz. gum Arab. 3 oz., catechu \mathfrak{zj} , honey q. s.

3. Species for mithridate 7lb., honey 21lb., S. V. R., water ana 1 pint.

PHILONIUM ROMANUM. Piper. albi, - sem. hyoscyami albi ana \mathfrak{zvj} , opii \mathfrak{zjss} , cass. lign. \mathfrak{zjss} , sem. apii \mathfrak{zj} , sem. petros. Maced. - sem. fœnic. - sem. dauci Cret. ana \mathfrak{zj} , gr. v, croci \mathfrak{zjss} , spicæ Ind. - pyrethri, - zedoar. ana gr. xv, cinⁿam. \mathfrak{zjss} , myrrhæ, - castorei ana \mathfrak{zj} , syr. papav. alb. q. s.

PHILONIUM LONDINENSE. Piper. albi, - zz. - sem. carui ana \mathfrak{zj} , opii colati \mathfrak{zvj} , syr. papav. alb. boiled down to the consistence of honey \mathfrak{zxx} \mathfrak{zj} .

CONF. OPIATA. Opii pur. duri \mathfrak{zvj} , pip. longi, - zz. - sem. carui ana \mathfrak{zj} , syr. papav. alb. boiled down to the consistence of honey \mathfrak{zxx} \mathfrak{zj} .

Conf. opii, P. L. 1809. Opii duri \mathfrak{zvj} , pip. longi \mathfrak{zj} , zz. \mathfrak{zj} ,

sem. carui ʒiij, simple syrup lb. j: stimulant, dose of philonium ʒj to ʒjss, of the confection only gr. x to ʒss.

Conf. opii, P. L. 1824. Add tragac. ʒij.

VENICE TREACLE, *Theriaca Andromachi*. Trochisci de scillâ lb. ss, piper. longi, - opii col. - viper. sicc. ana ʒiij, cinnam. - opo-balsami (or al. nuc. mosch. expr.) ana ʒij, agarici, -radicis iridis Flor. - herb. scordii., - flor. ros. rubr. - sem. napi, - extr. glycyrrh. ana ʒjss, nardi Ind. - croci, - amomi, -myrrhæ, - costi (or zedoariæ), junci odor. ana ʒj, rad. pentaph. - rhabarb. - zz, malabathri fol. (or macis), fol. dictam. Cret.-fol. marrub.-fol. calaminthæ, -stœch. -piper. nigri, -sem. petrosel. Macedon. - olibani, - terebinth. Chiæ. - rad. valerian. sylv. ana ʒvj, rad, gent.-nardi Celt.-mei athamant.-fol. polii, -fol. hyperici, -fol. chamæpityos, -sum. chamædryos cum semine, - carpobals. (or cubeb.), sem. anisi, - sem. fœnic. dul. - sem. cardam. min. - sem. ammeos, - sem. seselis, - sem. thlaspi, - succ. hypocist. - acaciæ (or catechu), gum. Arab.-styr. colati, - sagapeni colati, - terræ Lemn. (or bol. Armen., or bol. Gall.), vitrioli virid. calc. ana ʒss, rad. aristol. ten. (or arist. long.), summ. cent. min. - sem. dauci Cret. - opopan. - galbani col.-castor. Russ.-bitum. jud. (or succin. alb.), rad. calam. arom. ana ʒij, honey three times the weight of the species; stimulant, carminative, narcotic, ʒj to ʒss.

2. Pip. long. - cass. lign. ana 2 oz., croci, - zz. - gum thuris, - sem. anisi, - sem. cardam. miri. - gum. stor. - sal. Martis, - gum. myrrh. - cubeb. - sem. fœnic. dulc. - bol. Armen. ana 1 oz., fol. scordii. - castor, - calam. arom. ana 1 oz. ʒiiij, succ. Hispan. ʒ oz., gum. Arab. 4 oz., opopan. - galban. ana ʒiiij, honey 6 lb.

3. Rad. angelicæ ʒviiij, rad. valerianæ ʒiij, rad. gentian. ʒvj, zedoariæ, - sem. cardam. min. - ana ʒij, croci, - succ. glycyrrh. - myrrh. - opii ana ʒj, honey ʒlxxv; the opium is to be dissolved in Sherry q. s.

4. Opii ʒij, piment. 4 oz., rhæi 1 oz., zz. 2 oz., gent. 8 oz., anisi 8 oz., fœnic. dulc. 8 oz., vitriol. vir. calc. ʒiv, ol. lauri ʒj, mellis q. s.

5. Ext. bacc. junip. ʒiiij, myrrhæ (in vino Sherry solut.) rad. angelicæ, - rad. helenii, - rad. aristol. rotund. ana ʒij, syr. cort. aurant. - syr. papav. albi ana ʒviiij; mix.

ELECTARIUM OPIATUM, *E. thebaiacum*. Pulv. aromatici ʒvj, rad. serpent. Virg. ʒiij, opii ʒss, syrop. zz. lb. j: the opium to be dissolved in Sherry q. s.

CONFECTIO PAULINA, *C. Archigenis*. Costi (or zedoar.), cinnam. - pip. longi, - pip. nigri, - styr. col. - galban. col. - opii col. - castor Russ. ana ʒij, simple syrup boiled to the consistence of honey ʒxlviii.

SIR WALTER RALEIGH'S CORDIAL, *Confectio Raleighana, C. cardiaca*. Sum. rorism. recen. - bacc. junip. ana 1lb., sem. card. min. - zedoar. - croci ana lb. ss, proof spir. cong. jss; make a tincture, strain, evaporate to lb. ijss, then add pulv. e chel. cancr. comp. ʒxvj, cinnam. - nuc. mosch. ana ʒij, caryoph. arom. ʒj, sacch. albi lb. ij. Sir W. R.'s own formula was far more complicated.

CONF. AROMATICA, P. L. Cinnam. - nuc. mosch. ana ʒij, caryoph. arom. ʒj, sem. cardam. min. ʒss, croci ʒij, test. ostreor. pp. ʒxvj, sacch. alb. lb. ij, water lb. j.

2. Turmeric 6lb., cass. (parvæ) 3lb., cardam. min. 1lb. 8 oz., nutmegs 1lb., cloves 1lb., chalk ppd. 7lb.; grind together; to each 4lb. of these species add saffron, 1lb. 6oz., S. V. R. 3 pints, chalk ppd. 10lb., true oil of cloves 2 oz., tinct. stomach. 8 oz., syrup of saffron 10lb.; the saffron should be the best Spanish, and infused for a week in the spirit of wine; when good, it will bear 14 or 16lb. of chalk, and yet be of a good colour.

3. Rad. zedoar. 2lb., water 1 gall.; evaporate to 6 pints, add sugar 12lb., and when cold add gum. Seneg. 4lb., rad. curcumæ. Chin. 8lb., nuc. mosch. 4lb., cassiæ parvæ 8lb., gran. Parad. 1lb., sem. cardam. min. 1lb., starch 6lb., chalk ppd. 21lb., corall. rub ppd. 7lb., as also S. V. R. 2 pints, aloes, - cassiæ, - sem. cardam. min. ana 4 oz., nuc. mosch. 8 oz., croci in fœno 1lb., pulv. chel. canc. comp. 4 oz. : if the colour is not good, add kali ppd. 1 oz.

CONF. AROMATICA, P. D. Cinnam., nuc. mosch. ana ʒij, sacch. alb., croci ana ʒj, sem. cardam. min. caryoph. ana ʒij, cretæ præcip. ʒij, syr. aurant. cort. q. s.

ELECT. AROMATICUM. Pulv. aromat. p. j. syr. aurantii p. ij.

DIACASSIA CUM MANNA, *Elect. e cassia, Elect. e casia, Confectio cassiæ*. Pulp of cassia fistula lb. ss, mannæ ʒij, pulp. tamarind. ʒij, syr. rosarum lb. ss.

Elect. cassiæ. Syr. cort. aurant. used for syr. rosarum.

Elect. cassiæ fistulæ. Pulp. cass. fist., pulp. tamarind., mannæ ana p. j., syr. rosar. Dam. lb. iiij.

SYRUPUS SENNÆ, P. D. Sennæ ʒss, boiling water lb. j; infuse, strain, add manna, sugar ana lb. j.

Syr. sennæ, P. L. 1809. Senna ʒj, sem. fœnic. dul. ʒj, aq. ferv. lb. j: infuse, strain, add manna, sugar ana lb. j.

These are of the consistence of soft manna, and not syrups.

ELECT. EX ELLEBORO. Rad. elleb. albi lb. j, aquæ lb. xij; boil to lb. vj, strain, add honey lb. iiij, and boil to the consistence of honey; cathartic.

LENITIVE ELECTARY, *Elect. lenitivum, E. e senna, Conf. sennæ.*

3vij, figs lb. j, pulp. tamarind., pulp. cassiæ., pulp. prun. Gall. ana lb. ss, sem. coriand. 3iiij, glycyrrh. 3ij, sacch. alb. lb. ijss; laxative 3ij to 3ss, or more.

2. Senna (parva) 4lb., coriander seed 2lb., raisins 10lb., stick liquorice 1lb. 8 oz., prunes 10lb., tamarinds 10lb., treacle 28lb.

3. Figs 20lb., prunes 14lb., tamarinds 14lb., cass. fistula 20lb., white-sugar 50lb., stick liquorice 4lb. 8 oz., senna 12lb., coriander seed 8lb.; produced 124lb. of elect. len. optimum.

4. Figs 49lb., tamarinds 28lb., treacle 56lb., jalap 1lb. ivory black 2lb., senna (parva) 10lb., coriander seed 7lb.; produced 140lb.

5. Tamarind. rubr., prunes ana 4lb., treacle 20lb.; boil well together, and add species made of senna 3lb., coriander seed 2lb.

Elect. sennæ. Senna 3ij, pulp. prun. Gall. lb. j, pulp. tamarind. 3ij, common treacle lb. jss, ol. carui 3ij.

Elect. cassiæ sennæ. Fol. sennæ 3vij, sem. coriand. 3iiij, rad. glycyrrh. 3ij, figs, pulp. prun. ana lb. j, pulp. tamarind. lb. ss, sacch. alb. lb. ijss.—The pulp of apples is used for the others, and coloured with walnut rinds.

Contracting apothecaries' lenitive electary, Elect. lenitivum pro pauperibus. Fol. sennæ, - crem. tart. ana 3jss, pulp. prun. 3jss, syr. q. s. M.

CONFECT. SENNÆ COMP. Sulphuris sublimati, potassæ super-sulphatis, ana 3j, confectionis sennæ 3iv, pulv. zingib. 3jss, syrup. simp. q. s.; dosis 3j ad 3ij, pro re nata. In hæmorrhoids and affections of the large bowels.

CONFECT. MENTH. VIRID. Fol. recent. menthæ virid. 3iv, sacchari purificat. 3xii; anti-emetic, in bolus and mixtures.

CARYOCOSTINUM. Scamm., hermodact., caryoph. arom., zz. ana 3vj, ol. carui 3j, honey lb. j.

ELECT. E SCAMMONIO, P. L. 1745. Scammon. 3jss, caryoph. arom., zz. ana 3vj, ol. carui 3ss, honey lb. ss.

Elect. e scammonio, P. L. 1788, Confectio scammonææ. The same with syrop of roses instead of honey.

2. Scamm. Alepp., piment., rad. glyc. ana 12 oz., zz. 1lb. 8 oz., ol. carui 1 oz. 3iv, ol. caryoph. ver. 3ij honey 12lb.

3. Rad. jalapæ, zz. ana 1 oz. 3iiij, scamm. 3vj, ol. carui 3ij, ol. caryoph. ver. gtt. xvj, honey 1lb. 8 oz.: purgative, ʒj to 3j.

Elect. scammonii. Scamm., zz. ana 3j, ol. caryoph. arom. ʒj, syr. aurant. cort. q. s.

CONFECTIO AMYGDALÆ, C. amygdalarum. Sweet almonds, blanched, 3j, gum Arabic 3j, white sugar 3ss; used to make

emulsions when required, by merely rubbing down with distilled water.

WARD'S PASTE, *Conf. piperis nigri*. Piper. nigri, rad. enulæ amp., ana lb., sem. fœnic. dulc. 3lb., honey, white sugar ana 2lb.; for piles, and fistula in ano; dose the size of a nutmeg, three or four times a day.

PLUKENET'S OINTMENT FOR CANCER. Arsenic. alb. - fl. sulph. - fl. ranunculi flammulæ, - fl. contulæ fœtidæ, made into a paste with white of egg.

CONF. JAPONICA, *Elect. mimosæ catechu*. Catechu ʒiiij, gum. kino ʒiij, cinnam. - nuc. mosch. ana ʒj, opii ʒj (dissolved in Sherry q. s.), syr. rosar. rubr. boiled to the consistence of honey lb. ij ʒiij.

Elect. catechu compositum. Catechu ʒiv, cinnam. ʒij, kino ʒiij, opii pur. ʒjss (dissolved in Sherry q. s.), syr. zz., boiled to the consistence of honey lb. ij ʒiij.

2. Catechu lb., cassiæ, pulv. nuc. mosch. comm. ana 4 oz., opii ʒiij, syr. rosæ 7lb.; astringent.

FOX LUNGS, *Lohoch e pulmone vulpium*. Sperm. ceti, succ. glycyrrh. ana 8 oz., water q. s. to soften the liquorice and make an electary, add honey 3lb., ol. anisi q. s. to flavour it rather strongly; pectoral; used in coughs, although omitted by the college for more than a century, still retains its place in the public opinion: the druggists have substituted spermaceti for fox lungs.

MEL BORACIS, *Mel subboracis*. Borax ʒj, mel despum. ʒj; detergent: used as a gargle in aphthæ.

UNGUENTUM ÆGYPTIACUM. Rough verdigris ppd. ʒv, honey ʒxiv, vinegar ʒvij; boil to a proper consistence.

Mel Ægyptiacum. Is the thin portion that separates from unguentum Ægyptiacum by keeping.

OXYMEL ÆRUGINIS, *Linimentum æruginis*. Verdigris ʒj, vinegar ʒvii; dissolve, strain, add honey ʒxiv; boil to a proper consistence; detergent, and used to keep down fungous flesh; diluted, is used in gargles.

SMELLING OINTMENT FOR THE ITCH, *Tapsimel*, P. L. before 1745. Succ. chelidonii, - succ. tapsi barbati ana lb. ij, honey lb. ij; boil down, add vitriol. virid. - alum. ust. q. s. to make an ointment; used to cure the itch, by being exhibited as a suppository, or by merely smelling to the medicine.

MEL SOLUTIVUM. Liquor left on distilling 6lb. of damask roses, cummin seed ʒj, moist sugar lb. iv, honey lb. ij; boil down.

ELÆOSACCHARUM ANISI. Ol. anisi gtt. xvj, sacch. albi mag.

nesiæ albæ ana 1 oz.; rub together; to make extemporaneous anise seed water, by adding a few grains to a pint of water.

ELÆOS. CARUI;—*Elæos. cinnamomi*;—*Elæos. menthæ viperitæ*;—*Elæos. pulegii*. Are all made the same way.

CHELSEA PENSIONER. *G. guaiaci* ʒj, *rhabarb.* ʒij, *crem. tart.* ʒj, *fl. sulph.* ʒij, *nuc. mosch. no. j*, *mellis lb. j*: dose coch. maj. ij, night and morning in rheumatism.

NEUMANN'S OPIUM. *Opii q. p.* soak in water, scumming it carefully, then strain, add a little sugar, and set it in a warm place to ferment; when the fermentation slackens, it may excited again by stirring up the lees; continue this for some months until the fermentation can no longer be excited, then strain and evaporate to a pilular consistence; but it answers better given in a liquid than in a solid form: hypnotic and anodyne.

EXTRACTUM SEU LAUDANUM CYDONIATUM. *Opii lb. ss*, *succ. cydon. lb. vj*, digest, filter, evaporate to an extract, adding *ol. cinn.*, *ol. caryoph.*, *ol. macis ana gtt. x*.

LANGELOTT'S PREPARED OPIUM. *Opii lb. j*, *succ. cydoniorum lb. x.*, *kali ppi. ʒj*, *sacchar. ʒiv*; ferment for some time, filter, and evaporate to the consistence of honey, upon which digest *S. V. R.*; filter, and distil off the spirit.

EXTRACTUM OPII, (P. Wurtemberg.) *Opii ʒiv*, *aquæ comm. c. succo citri acidulatæ lb. iv*; boil, filter, and evaporate,

LUDOLPH'S MAGISTERY OF OPIUM, *Magisterium opii Ludovici.* Dissolve opium in vinegar, strain, and add subc. of potash water until the precipitation ceases; filter, and dry the precipitate.

QUERCETAN'S OPIUM. Dissolve opium in vinegar, filter and evaporate the liquor to the consistence of an extract. This electary is recommended by Horst, Sylvius, Langley and others, as milder than crude opium.

GLASER'S PREPARED OPIUM. Digest opium in May-dew, filter and evaporate.

OPIUM PREPARED WITH VINEGAR. Dissolve opium in vinegar; filter and distil off the acid, repeating this three times.

GLAUBER'S PREPARED OPIUM. *Opii ʒiv*, *spir. salis ʒjss*, *cremor. tartari ʒj*; mix, digest with *S. V. R.*, filter, and distil off the spirit.

ELECTARIUM ANTHELMINTICUM. *Stanni pulv. ʒiij*, *conf. rosæ Gall. ʒss*, *syr. simpl. q. s.*; dose a table spoonful every morning for three days; to be succeeded by a cathartic.

EL. CATHARTICUM. *Conf. sennæ ʒjss*, *lact. sulph. ʒss*, *syr. rosæ q. s.*; dose ʒj, three or four times a day, in piles.

EL. DEMULCENS. Sperm. ceti ʒij, pulv. trag. c. ʒj, syr. papav. syr. Tolu. ana ʒij, conf. rosæ ʒvj, sal nitri ʒss; dose size of a nutmeg frequently.

EL. EMMENAGOGICUM. Myrrhæ ʒj, ferri ammon. gr. vj, syr. zz. q. s.; size of a nutmeg to be taken twice a day.

EL. STIMULANS. Gum. ammon. ʒj, aceti scillæ q. s. ut fiat emplastrum; to be applied to the pit of the stomach.

EL. DOLICHOS. Pods scraped into syrop, till the hairs render it as thick as honey; dose a tea spoonful in the morning fasting, as a vermifuge, a purge being given a day or two afterwards.

EL. SULPHURIS. Fl. sulph. ʒss, elect. lenit. ʒij, salis nitri ʒijj, syr. cort. aurant. q. s.; in piles, dose ʒj to ʒij, bis terve die.

EL. SULPHURIS COMP. Flor. sulph. ʒss, potass. supertart. ʒj, confectio sennæ ʒij. confect. piperis nig. ʒjss, syrop. zingib. ʒj; dose ʒj—ʒij. (*J. C.*)

EL. SULPHURIS CUM BORACE. (*J. C.*) Flor. sulph. ʒj, pot. supertart. ʒjss, subboracis sodæ ʒss, conf. sennæ ʒijss, syrup aurantii ʒj, vel. q. s., in dose ʒss—ʒij. In diseases of the lower bowels, and uterine organs.

EL. TEREBINTHINÆ. Ol. tereb. rect. ʒj, mellis ʒss; dose, coch. min. j to ij, bis in die, in gonorrhœa.

EPITHEMA AMMONIACI. Gum ammon. ʒijj, solve in acetum scillæ q. s., cui adde extr. cicutæ ʒij, extr. Saturni ʒj; for white swellings.

EP. GOULARDI. Cons. rosar. ʒj, mellis rosar., extr. Saturni, tinct. opii ana ʒij; for painful and irritable ulcers.

2. Cremor. lactis ʒj, extr. Saturni ʒj; for erysipelatous inflammations.

EP. TEREBINTHINÆ. Mellis, tereb. vulg. ana ʒj, far. tritici, q. s.: for chilblains.

2. Tereb. comm. ʒj, vitellum unius ovi; as a digestive to wounds.

CAUSTICUM COMMUNE C. OPIO. Potassæ c. calce ʒij, opii pulv. ʒss, sapon. moll. q. s. to fungous ulcers.

PASTA EPISPASTICA. Canthar., farinæ tritici ana p. æq., acet. q. s. superior to blistering plaster.

LINCTUS DEMULCENS. Sperm. ceti, pulv. trag. comp. ana ʒss, syr. papav. q. s. ut f. linctus; dose a tea spoonful occasionally.

L. EXPECTORANS. Oxym. scillæ, syr. althææ, mucil. gum. Arab. ana ʒss.

L. STIMULANS. Mellis ʒj, ol. terebinth. ʒij; dose a tea spoonful night and morning, with a draught of any weak drink.

L. POTASSÆ NITRATIS. Potas. nit. contrit. ʒjss, mellis rosæ ʒj, oxymellis simp, ʒss. Misce. ʒj, subinde.

L. ACIDI MURIATICI. Mellis rosæ ʒx, syrup. rheados ʒij, acidi muriatici m xx.

L. OLEOSUS. Olei amygdal., syrup. mori, ana ʒj, conf. ros. canin. ʒj, pulv. tragacanth. co. ʒiij. Misce ʒj, subinde.

2. Olei olivæ, oxymellis scillæ syrup., papaveris, ana ʒj. Dosis ʒj, subinde.

L. OPIATUS. Syrup. papav. ʒij, mucilag. acaciæ ver. ʒj, confect. ros. canin. ʒj, acid. sulph. dil. ʒij.

CATHARTIC SUPPOSITORY. Sapo dur. ʒj. elaterii gr. ij; used when a powerful action is required.

NARCOTIC SUPPOSITORY. Soap ʒj, opium ʒjss; useful in nephritic pains.

SUPPOSITORYUM VERMIFUGUM. Saponis duri ʒj, aloes Socotr. gr. x; to be introduced immediately after a stool.

DEPILATORY OINTMENT, *Linimentum depilatorium.* Calcis vivæ ʒj, auripigmenti ʒj, albumin. ovorum q. s.; mix.

SINAFISM. Horse-radish root fresh, flour of mustard, water; beaten into a mass.

ELECTARIUM EX CARBONE. Carb. lign. ʒiij. gum Arab. ʒij; sacch. albi ʒj, aq. q. s.; a table spoonful added to clysters of bran, in dysentery and windy colic.

OPIATUM ANTITUBERCULOSUM, of *Lepecq de la Cloture.* Sperm. ceti, - ocul. cancr. - sulphur, ana ʒij; conserv. rosar. ʒss; agarici piperati ʒiij; mellis, sive syr. simpl. q. s.; used in tubercular phthisis, gr. xlviij to ʒjss three or four times a day.

MOSCHUS REDUCTUS. Nuc. mosch., macis, cinnam., caryoph. arom., spicæ nardi ana p. æq. blood q. s.; beat it into a paste, dry in the sun, moisten it with musk water, and add 1-4th of pure musk.—2. Toasted bread, goat's blood, of each 2 oz., pure musk 1 oz.; beat well together, and fill the bags.—3. Styrax, labdanum, lign. aloes pulv. of each 4 oz., musk, civette of each ʒiv; mix.—4. Musk, rad. angelicæ, goat's blood of each p. æq.—5. Mosch, Chin. 4 oz., chocolate half an oz., ivory black quarter of an oz., sal tartari ʒj.

AMBRA-GRISEA REDUCTA. Ben nuts 3 oz., sperm. ceti 3 oz., benjamin, Flor. orrice root, starch of each 7 oz., asphaltum 1 oz., musk ʒiv, ambergrise 6 oz., mucilage of gum tragacanth q. s.

ZIBETHUM REDUCTUM. Civette q. p.; mix it with ox gall and storax.—2. Civette 18 oz., pulp of raisins 8 oz., musk 1 oz.; mix, and keep it in a warm place for three weeks or a month.—3. Civette 20 oz., styr. liquid., honey, ox gall. pulp of figs of each $2\frac{1}{2}$ oz., musk 1 oz.

EXTE. CORT. PERUV. REDUCTUM. Cort. fraxini 30lb., gum. Arab. lb. j, cort. Peruv. small and gruffs from tinctures 30lb.

ANNOTTO REDUCTUM. Flag annotto 3lb., gum. trag. 2lb. dissolve in water q. s. add soap, red bole of each 2 oz.

VETERINARY MEDICINES.

CONFECTIO OPII FOR HORSES. Opium $1\frac{1}{2}$ oz., macerate in warm water till it forms a thin paste, then add ginger powder 3 oz., carui seeds powd. allspice powd. of each 6 oz., treacle 24 oz.; mix. This is a good cordial for cattle; the above will make about 20 doses of 2 oz. each, to be given in warm beer or an infusion of peppermint.

THERIACA LONDINENSIS, *Cataplasma e cymino.* Sem. cymini lb. ss, bacc. lauri. - fol. scord. - rad. serp. Virg. ana ʒij , caryoph. arom. ʒj , honey ʒxlviij ; the old formula had opium in it, and was made up with syrup of poppies.

2. For cloves, put in twice the weight of allspice: at present mostly used by the farriers as an alexipharmic; formerly given ʒij to ʒss , the old form being weaker than Venice treacle, but pleasanter to the taste.

MUSTARD LINIMENT FOR HORSES. Flour of mustard 2 oz., aqua ammoniæ 1 oz., water q. s. to give it the consistence of thin cream; mix, and rub on the belly in inflammation of the bowels.

ESCHAROTIC LINIMENT, for farriers. Honey 4 oz., spirit of salt and verdigrise of each 1 oz; mix.

PERFUMERY AND COSMETICS.

Coral dentifrice, *El. gingivale.* Oxym. e crem. tart. ʒxij , tinct. myrrh. rub. ʒiij . ol. cajep. gtt. x, ol. cinnam. gtt. xx; mix: for scorbutic gums.—2. Laccæ in glob. ʒij , alum. ʒiij , rad. irid. Flor., rad. bistortæ, flor. rosar, rubr., myrrhæ ana ʒij , mellis q. s. to make an electary.

El. dentifricium. Myrrh. ʒiij , crem. tart., cochin. ana ʒjss , caryoph. arom. ʒj , mellis ʒiij ; mix.

El. gingivale antiscorbuticum. Gum. lacc. in baculis, myrrhæ ana ʒj , mellis q. s.

El. ad stomachacem Spielmanni. Pulv. rad. ireos. Flor., pulv.

sang. drac. of each ʒij , alum. ʒij , myrrhæ, mastichis of each ʒj , syr. Tolutanus q. s. to make an electary ; in fowl guma.

Almond paste. Almonds blanched 4 oz., lemon juice 2 oz., oil of almonds 3 oz., water 1 oz., proof spirit 6 oz.—2. Bitter almonds blanched 1 lb., white of 4 eggs, rose water, S. V. R. ana q. s.

Brown almond paste. Bitter almonds blanched, pulp. of raisins of each 1 lb., proof spirit q. s.: cosmetic, softens the skin, and prevents chaps.

FOR THE KITCHEN AND TABLE.

Almond paste for orgeat. Boil the almonds in water until the skin parts easily, strain, throw the almonds into cold water, blanch them, and dry either in the sun or stove till they are brittle ; to each half pound of blanched almonds add as much Italian melon seed, steep in cold water 4 pints for five or six hours, strain off the water except about 4 or 5 oz., reduce them to a fine paste, adding powdered sugar $1\frac{1}{2}$ lb. This paste may be dried in a stove, that it may be kept for some time.

Almond paste, Pasta regia, P. amygdalina. Amygd. dulc. decort. lbj, amygd. amar. decort. ʒss , sugar lb. j, aq. flor. aurant. q. s. ; beat to a paste sufficiently stiff not to stick to the fingers.

Quince marmalade, Miva vel gelatina cydoniorum. Juice of quinces lb. xij, boil to a half, add white wine lb. v ; simmer away about 3 or 4 pints, let it settle, strain, add white sugar lb. ij, and boil till it fixes when cold.

Ready made mustard. Flour of mustard 3 lb., salt 1 lb. ; make it up with raisin wine, and add 3 or 4 spoonsful of sugar to each pint. Must, i. e. grape juice, was formerly used, whence its name ; used as a sauce.—2. Flour of mustard 8 lb., wheat flour, bay salt, of each $1\frac{1}{2}$ lb., Cayenne pepper $2\frac{1}{2}$ oz., water q. s.—3. Salt $1\frac{1}{2}$ lb, boiling vinegar 2 gall., scraped horse radish 1 lb., cover, and let it stand a day and night ; strain, and add flour of mustard q. s.

Patent mustard. Black ginger 12 lb., common salt 18 lb., water 16 gall., boil, strain ; to each gall. add flour of mustard 5 lb.

Moutarde à l'estragon. Black mustard seed, dried until friable and then finely powdered, 1 lb., salt 2 oz., made up with tarragon vinegar. The French make about twenty-four other different flavoured mustards by mixing up the ground seed with different vinegars, but this is that mostly used ; they are dark coloured, as being made from the powder of the whole seed, but in other respects far superior to the mustard made with the mixed powders sold for flour of mustard in England, in which a bright yellow colour is required.

Solid essence of sprats, Extract of sprats. Essence of sprats 7lb., wheat flour, well dried, q. s. to give the consistence of cream, adding a little common bole to colour it, then evaporate in a steam bath to the consistence of butter.

Bittern. Extract of cocculus Indicus, extract of quassia, Spanish liquorice, calcined sulphate of iron; sold in large casks to brewers.

Multum. Extract of quassia, and liquorice root; used by brewers in lieu of hops and malt.

Bitter balls, for brewers. Pulv. rad. gent. 8lb., extr. gent. 4lb., treacle q. s. to roll up in balls.

Flash. Extract of capsicum with sugar, but sold as burnt sugar and isinglass; used to colour brandy and rum, and make them appear stronger.

USED IN THE ARTS.

Composition for encaustic painting. Gum Arabic 9 oz., water a pint; dissolve, add mastich in fine powder 14 oz., boil to a paste, add white wax 10 oz., in small pieces, and whilst hot, add by degrees cold spring water 2 pints, then strain the composition, which will be like cream.

2. Mix mastich 24 oz., with the gum water, leaving out the wax, and when sufficiently heated and mixed over the fire, add by degrees cold water 24 oz., and strain.

3. Dissolve gum Arabic 2 oz., in water 24 oz., add 1lb. of white wax, boil over a slow fire, pour it into a cold vessel, beat it well together; when this is mixed with the colours, it will require more water than the others.

Used in painting, the colours being mixed with these compositions as with oil, adding water, if necessary; when the painting is finished, melt some white wax, and with a hard brush varnish the painting, and when cold rub it to make it entirely smooth.

Blacking paste. Rape oil 3 oz., oil of vitriol 3 oz., mix; the next day add treacle, ivory black, of each 3lb., stone blue 6 oz., vinegar q. s. to form a thick paste: this will fill 1 doz. tin boxes.—2. Rape oil 3 oz., treacle, brown sugar ana 9 oz.; mix, add ivory black 3lb., flour paste 2lb.; when the paste is quite smooth, thin it to the consistence of honey, with vinegar q. s.: used for making blacking for leather.

Armenian cement. Soak isinglass in water until it is soft, then dissolve it in rect. spirit. In 2 oz. of this dissolve gum galbanum or gum ammoniac, of either gr. x, add 5 or 6 large tears of mastich reduced to a liquid state by rectified spirit. The cement must be kept closely stopped, and when wanted for use melted

by putting the bottle in some warm water: used to cement stones to watch cases, also broken glass and china; resists moisture very well.

CATAPLASMS OR POULTICES.

CATAPLASMA ALUMINIS. Alum \mathfrak{z} j, cons. rosar. \mathfrak{z} jss, white of an egg; in ophthalmia.

CAT. CARBONIS LIGNI. Farinæ lini lb. ss, ligni carb. ppæ. \mathfrak{z} ij, aq. ferv. q. s.; in gangrene and fetid ulcers.

CAT. CICUTÆ. Cicutæ fol. m. ij, coque in aq. lb. j, adde farinæ lini, vel avenæ q. s.; in open cancer.

CAT. DAUCI. Rad. dauci lb. ss, coque in aquæ q. s. ut sit mollis; in scorbutic ulcers.

CAT. DIGITALIS. Fol. digitalis sicc. \mathfrak{z} iij (or fol. dig. rec. \mathfrak{z} iv), aquæ lb. ij, coque ad dimidium; strain, and with the decoction and linseed meal make a poultice for irritable painful ulcers.

CAT. EFFERVESCENS. Far. tritici lb. j, cerev. fermenti lb. ss; mix, expose to a gentle heat until it begins to ferment: in gangrene.

CAT. GOULARDI. Extract. Saturni \mathfrak{z} jss, spir. vini rect. \mathfrak{z} ij, aquæ \mathfrak{z} xij, micæ panis q. s.; in inflammations.

CAT. FARINÆ LINI. Far. lini q. p. aquæ ferv. q. s.; smear the surface with oil before it is applied: to promote suppuration.

CAT. PANIS. Micæ panis, far. lini ana p. æq., lactis ferventis q. s.; for the same purpose.

CAT. ROSÆ. Cons. rosar. \mathfrak{z} ij, alum \mathfrak{z} ss to \mathfrak{z} j; for weak eyes or chronic ophthalmia.

CAT. SALIS COMMUNIS. Pulv. lini, micæ panis ana p. æq. aquæ sale communi saturatæ q. s.; in enlarged glands or wens.

CAT. SALIS GLAUBERI. Sal. Glauberi \mathfrak{z} j, aq. ferv. q. s.; dissolve, add micæ panis q. s.; in inflammation of the eyes.

CAT. EMETICUM. Tabaci fol. \mathfrak{z} j, aq. q. s. to beat up into a poultice; to be applied to the epigastric region.

FOR VETERINARY MEDICINE.

CLEANSING POULTICE. Black soap 1lb., honey 8 oz., burnt alum 4 oz., verdigrise powdered half an oz., wheat flour q. s.; for the sore heels of horses, which are very foul.

DISCUTIENT POULTICE. Root of briony 3 oz., boil in water till soft, add gum ammoniac 4 dr., dissolved in vinegar q. s., sal ammoniac 3 dr., camphire 2dr., dissolved in S. V. R. q. s.; for hardness of tendons: superior to blue ointment.

EMOLLIENT POULTICE. Linseed meal made into a poultice by pouring boiling water on it; when cold add a little lard or oil to prevent it from growing hard.

HEALING POULTICE. Beat up 1 or 2 eggs with wheat flour to a proper consistence; for sores.

REPELLENT POULTICE. Vinegar, rape oil, of each p. æq., oatmeal q. s. to form a poultice; for fresh strains or bruises in horses.

2. The same, with a little alum dissolved in the vinegar, about 1oz. to the pint.

RESOLVENT POULTICE. Vinegar, beer, of each p. æq., sal ammon. 2 oz., dissolve, and add oatmeal q. s.; to resolve coagulated blood in bruises.

PILLS.

These differ from the electaries as being solely designed for medicines, which are of a powerful nature, and whose doses must be determined with some accuracy. Although called pills, the greater number of them are kept in the shops in mass, and are only made into pills when wanted for use, or sale by retail. Boluses and the horse-balls, usually kept in the shops, are also included under this title, as they in fact differ only in magnitude. Pills are frequently ordered in old prescriptions to be gilt or silvered, which is easily done by placing them, as soon as made, at convenient distances upon a leaf of gold or silver, then cutting off the requisite portion, letting the pills and leaf fall into a very dry gallipot; and after covering it with a slip of paper and the hand shaking the whole for a moment or two; the leaf will thus adhere to the pills, but this ornament retards their solution in the stomach. —The size of pills varies in different countries: in England they are of the size of small peas, and about gr. v each; the Germans make them very small, ordering 30 or 40 in common for a dose, so that they are nicknamed mice-turds, which, in fact, their pills resemble; the French, on the other hand, make them so large that they resemble our boluses.

Horse balls should not exceed the size of a pigeon's egg; they are often rolled in cylinders about one inch wide, and two inches and a half long; they should be wrapped up in the thinnest paper that can be procured.

FOR MEDICAL USE.

AROMATIC PILLS, *Pilulæ diambra sine odoratis, P. aromaticæ.* Aloes Soc. ʒjss, gum guaiaci ʒj, species aromat., bals. Peruv. ana ʒss: in small doses diaphoretic; in larger, purgative. Now

mostly kept in powder, by the name of pulv. aloes comp. and pulv. aloes cum guaiaco.

PIL. COCCLEÆ MINORES, *P. ex colocynthide cum aloë.* Al. soc., scammon. ana ʒ ij, pulp. colocynth. ʒ j, ol. caryoph. arom. ʒ ij.

2. Aloes, pulp. colocynth., pulv. jalapii, ana 1lb., ol. caryoph. 2 oz., syr. spin. cervi q. s.

3. Scammon. Alep., jalapii, ana 1lb., pulp. colocynth., aloes Soc. ana 8 oz., kali vitriolati 2 oz., ol. caryoph. 2nd. 1 oz., syr. spin. cervi 2lb. 12 oz. : cathartic, gr. v—x, or more.

PIL. ALOES CUM COLOCYNTHIDE. Aloes Soc., scammon. ana ʒ viij, colocynth. ʒ iiij, ol. caryoph. arom., sulph. potassæ cum sulphure, ana ʒ j.

PIL. COLOCYNTHIDIS COMPOSITÆ. Pulp. colocynth. ʒss, aloes hepat., scammon. ana ʒ j, sapo. Cast. ʒ ij, ol. caryoph ʒ j.

ALOE PILLS, *Family pills, Antibilious pills, Aloe rosata.* Aloes Socotr. 4 oz., succ. rosar. Damasc. lb. j ; evaporate to a proper consistence.

Pil. ex aloë. Aloes Socotr. ʒ j, extr. gentian. ʒss, syr. zz. q. s.

Pil. aloes compositæ. Instead of the syr. zz. of the last, use ol. carui min. xl, and syr. simp.

Pil. aloes cum zingibere. Aloes hep. ʒ j, rad. zingib. ʒ j, sapo. alb. ʒss, ol. menth. pip. ʒss.

Pil. aloeticæ. Al. Socotr., sapon. alb. ana p. æq., syr. simp. q. s. ; cathartic, gr. v to xv.

COLOQUINTIDA PILLS, *Pil. e duobus.* Pulp. colocynth., scammonii, ana ʒ j, ol. caryophill. arom. ʒss, syr. de spin. cerv. q. s.

Pil. ex colocynthide simpliciores. The same, with a double proportion of oil of cloves.

FEMALE PILLS, *Pil. ephracticæ.* Pil. aromat. ʒ iiij, rhabarb., extr. gentian., sal Martis, ana ʒ j, sal absinth. ʒss, syr. rosar. solut. q. s.

PIL. BENEDICTÆ. Aloes Soc. 6 oz., galbani, assæfœtidæ, myrrh. ana 1 oz. ʒ iv, macis, croci, ana ʒ vj, sal Martis 9 oz., fol. sennæ 8 oz., ol. succin. rect. 1 oz. Emmenagogue, gr. v. to xv.

FETID PILLS, *Pil. fœtidæ, Pil. gummosæ Pil. e gummi.* Galbani, myrrhæ, opoponacis, sagapeni, ana ʒ ij, assæfœtidæ ʒss, syr. croci q. s.

Pil. galbani compositæ. Omit the opoponax, and put in an extra ʒss of myrrh and sagapenum.

2. Galbani, myrrhæ, sagapeni, ana 2 oz., opoponacis 8 oz., gum. fœtidæ 6 oz., syr. croci 1lb. 8 oz. ; antispasmodic, gr. x—ʒss, bis terve die, in hysterics and nervous complaints.

PIL. ARGENTI NITRATIS. (*Paris H.*) Nitrate of silver gr. iij, gummous extract of opium ʒss; musk ʒj, camphor ʒij, for 48 pills: two or three pills a day.

PIL. BALSAMICÆ. (*Copland.*) Balsam. Peruvian. ʒjss, myrrhæ ʒij, assæfoetid., Galban., ana ʒj, pulv. capsici annui gr. xvj, magnesiæ ustæ q. s. Divide in pilulas xxxvj. 2 vel 3 bis terve in die. Diseases of debility, leucorrhœa, hysteria, &c.

PIL. DE BRUCINE. Brucine gr. x, cons. rosar. ʒss; fiant pil. xxiv, silver them.

PIL. DE STRYCHNINE. Strychnine gr. ij, cons. rosæ canin. ʒss; fiant pil. xxiv, silver them.

PIL. DE VERATRINE. Veratrine gr. ss, gum. Arab. or syr. gum. Arab. q. s.; ut fiant pil. vj: dose pil. j to iij, in a day.

PIL. DE DEUTOIODURE DE MERCURE. Deutoiodure de mercure gr. j, extr. junip. gr. x, glycyrrh. rad. tritæ, q. s.; ut fiant pil. viij; dose pil. ij to iv morning and evening.

PIL. DE PROTOIODURE DE MERCURE. Protoiodure of mercury gr. j, extr. junip. gr. x, glycyrrh. rad. tritæ, q. s.: ut fiant pil. viij: dose pil. ij to iv morning and evening.

PIL. AVEC L'OXIDE D'OR. Oxid. auri per potassum gr. v; extr. cort. mezerei ʒij; fiant pil. lx.

2. Muriat. trip. auri gr. j, extr. cort. mezerei ʒij; fiant pil. lx. In scrofula pil. j to viij in a day.

PIL. ASSÆFETIDÆ COMPOSITÆ. Assæfoetidæ; galbani, myrrhæ, ana ʒj, ol. succini rect. ʒj, syr. simp. q. s.

PIL. ALOES ET ASSÆFETIDÆ. Aloes Socotr., assæfoetidæ, sapon. alb. ana p. æq., mucilag. gum. Arab. q. s.

GAMBOGE PILLS, *Pil. de gutta gamandra.* Resinæ jalap., scammonii, gutt. gam., calomel. ana ʒss, gum. ammon. ʒiij (dissolved in succ. irid. nostr.), tartar. vitriol. ʒij, mastich. ʒj, croci ʒj, ol. terebinth. gtt. xl, syr. spinæ cervinæ q. s.

PIL. CAMBODIÆ COMPOSITÆ. Gutt. gamb., aloes Socotr., comp. pulv. cinnam., ana ʒj, sapon. cast. ʒij; dose gr. x to xx.

PIL. HYDRAGOGÆ. Gum. ammon. ʒij, aloes Socotr., G. G. G. ana ʒij, elaterii contriti ʒss, tinct. gentianæ q. s. to form pills of gr. ij each: violently cathartic; used in dropsy.

RHUBARB PILLS, *Pil. de rhabarbaro.* Rhabarb. ʒj, resin. jalap., tartar. vitriol. ana ʒijss, ol. dist. nuc. mosch. ʒss, extr. gentianæ. liq. q. s.

2. Rhabarb. ʒj, aloes Socotr. ʒvj, myrrhæ ʒss, ol. menth. pip. ʒss, syr. cort. aurant. q. s.; stomachic, laxative, ʒj, bis in die.

RUFUS'S PILLS, *Common pills, Pil. Rufi,* P. L. before 1745,

Pil. communes. Aloes Socotr. ʒij, myrrhæ ʒj, croci ʒss, syr. de absinthio q. s.

Pil. Rufi., P. L. 1745. *Pilulæ ex aloë cum myrrha.* Aloes Socotr. ʒij, myrrh., croci ʒj, syr. croci q. s.

Pil. aloes cum myrrha. The same, but with simple syrup.

2. Aloes 1lb., myrrhæ 8 oz., croci in fœno 2 oz., syr. croci 1lb. 8 oz.

3. Aloes 1lb., myrrh. 6 oz., croci, pulv. curcumæ veri, ana 3 oz., syr. croci q. s.; stomachic, purgative, gr. x—ʒj.

Pil. aloes et myrrhæ, P. E. Aloes hepat. ʒj, myrrh. ʒss, croci ʒij, ol. carui ʒss, syr. simp. q. s.

Pil. aloes et myrrhæ, P. D. Aloes Soc. ʒiiij, myrrh. ʒij, croci ʒj, syr. simp. q. s.

RUDIUS'S PILLS, *Pil. Rudii.* Pulp. colocynth. ʒvj, ras. agarici, rad. helleb. nigri, rad. turpethi, ana ʒss, cinnam., macis, caryoph. arom. ana ʒij, S. V. R. ʒx; digest four days, strain with strong pressure, add scammonii ʒss, aloes Socotr. ʒj; distil off the spirit till the remainder is left of the consistence of honey, and reduce this to a mass by farther evaporation. Cathartic, gr. v—xxx, ter die; till it operates: the original formula, esteemed one of the most certain purges known, and used when evacuation was difficult to be procured, but yet absolutely necessary.

EXTRACTUM CATHARTICUM. Pulp. colocynth. ʒvj, cardam. min. ʒss, proof spirit lb.; digest, express, and dissolve in the tincture aloes Socotr. ʒjss, scammon. ʒss, draw off the spirit, and reduce the remainder to a proper consistence.

EXTR. COLOCYNTHIDIS COMPOSITUM. P. L. before 1809. Pulp. colocynth. ʒvj, proof spirit lb. j; digest, press out the tincture, add aloes Socotr. ʒjss, scammon. ʒss, distil off the spirit, adding towards the end cardam. min. ʒj.

Extr. coloc. comp. P. L. 1809. Pulp. colocynth. ʒvj, water lb. ij; digest, strain, add aloes Socotr. ʒjss, scammon. ʒss, sapon. duri ʒiiij, evaporate, adding as before, cardam. min. ʒj.

Extr. col. comp. P. L. 1815. As the last, omitting the soap.

Extr. col. comp. P. L. 1824. As the formula in 1809, using proof spirit lb. j instead of the water.

Extr. col. comp. P. D. As the London 1809, using only lb. j of water, and adding the soap, reduced to a jelly by water, along with the cardamoms towards the end.

2. Colocynth. 15 oz., aloes Soc. 3lb., gum. scam. 10 oz., sem. coriand. 2 oz., dr. 4, proof spirit 2 gall. ●

3. Pulv. coloc. lb. jss, card. min. 4 oz., scammon., aloes hepat. ana 6 oz.

STORAX PILLS, *Pil. e styrace*, P. L. before 1745. Styr. calam., olibani, myrrhæ, succ. glycyrrh., opii, ana ʒss, croci ʒj, syr. papav. alb. q. s.

Pil. e styrace, P. L. since 1745. Styr. calam. colati ʒij, croci ʒj, opii colati ʒv.

Pil. e styrace, P. D. Styr. purif. ʒiij, opii pur. moll., croci, ana ʒj; M.

Anodyne, gr. iij—x; used in the coughs of aged persons as a night pill.

COMMON NIGHT PILLS, *Anodyne pills*, *Nepenthes opiatum*, P. L. 1688. Extr. opii (made first with distilled vinegar, and then with proof spirit) ʒj, extr. croci (made with proof spirit) ʒjss, castor. ʒj, tinct. spec. diambrae sine odor. (made of spec. ʒiv in S. V. R. q. s.) ol. nuc. mosch. gtt. x; evaporate to a mass for pills.

LAUDANUM, P. L. 1720. The same, omitting the extraction of the opium with distilled vinegar.

PIL. SAPONACEÆ. Opii colati (moistened with wine) ʒss, sapon. alb. ʒiv, ess. limon. ʒj.

PIL. EX OPIO, *Pil. opii*. Opii purif. duri ʒij, extr. glycyrrh. ʒj.

PIL. SAPONIS CUM OPIO, *Pil. sapon. compositæ*. Opii sicc. pulv. ʒss, sapon. alb. ʒij; twice the strength of the pil. saponaceæ of the older pharmacopœiæ.

PIL. OPIATÆ, *Pil. Thebaicæ*. Opii ʒj, extr. glycyrrh. ʒviiij, soften with proof spirit, add pip. Jamaica ʒj.

All these are anodyne, narcotic, gr. v—xx; but the very different strength of the several formulæ must be considered: dissolve quicker in the stomach than storax pills, and better adapted for occasional exhibition: the omission of the extraction of the opium with vinegar, renders their action not so mild as the original prescription.

EAST INDIA PILLS, *Tanjore pills*. Arsen. alb. ʒj, pip. nigri ʒvj; mix: used in confirmed lues, as a preventive of canine madness, and in elephantiasis.

MERCURIAL PILL, *The blue pill*, *Pil. mercuriales*. Hydrar. ʒv, terebinth. argent. ʒij; grind together, add extr. cathart. iijð, rhabarb. ʒj.

PIL. EX HYDRARGYRO. Hydrarg. pur., extr. glycyrrh. ana ʒij, rad. glycyrrh. ʒj.

PIL. HYDRARGYRI, P. L. and D. Hydrarg. pur. ʒij, conserv. rosar. ʒiij, rad. glycyrrh. ʒj.

2. Hydrarg. 12 oz., tereb. comm. q. s., rhabarb. 2 oz. ʒij, pulp. colocynth. 4 oz. Deobstruent, alterative, gr. v—xx, bis terve die, in syphilis, and most little known complaints.

Pil. hydrargyri, P. E. Hydrarg. pur., conserv. rosar. ana ʒj, amyli ʒij, mucil. gum. Arab. q. s., and make the whole into 480 pills.

BELLOSTE'S PILLS. Hydrarg. 1lb., sacch. 4 oz., scammon. rad. jalap. ana 1lb., vini alb. q. s.: some use cream of tartar instead of sugar.

CALOMEL PILLS, *Plummer's pills*, *The red pill*, *Pil. hydrargyri submuriatis*, P. L. 1809. Calomel, sulph. antim. præcip. ana ʒj, gum. guaiaci ʒij, bals. Copaibæ q. s.

Pil. hydrar. subm. P. L. 1815. As the former, substituting mucil. gum. Arab. for balsam Copaibæ.

Pil hydrar. subm. compositæ. Calom., antim. sulph. præc. ana ʒij, gum. guaiaci ʒss, S. V. R. ʒss.

JAMES'S ANALEPTIC PILLS. *Pil. Rufi* 1lb., calc. antimonii lotæ 8 oz., gum. guaiaci 8 oz.; M. and make 32 pills from each drachm.

2. *Pil. Rufi*, pulv. antimonialis, gum. guaiaci, ana ʒj; make into 20 pills with tincture of castor.

ANDERSON'S SCOTS PILLS. Aloes Bbds. 1lb., rad. helleb. nigr., rad. jalapii, kali ppi. ana 1 oz., ol. anisi ʒiv, syr. simp. q. s.

2. Aloes B. B. 2lb. 8 oz., water 8 oz.; soften, add jalap., sem. anisi pulv., ebor. usti, ana 8 oz., ol. anisi 1 oz.

3. Aloes (Bermudas) 1lb., rad. jalap., flor. sulph., ebor. usti, rad. glycyrrh. ana 2 oz., ol. anisi ʒj, G. G. G. ʒij, sap. Castil. 4 oz., syr. sp. cervin. q. s.

HOOPER'S PILLS. Vitriol. virid., aquæ, ana 8 oz.: dissolve, add aloes Barb. 2lb. 8 oz., canellæ albæ 6 oz., gum. myrrh. 2 oz., opoponacis ʒiv.

2. Sal. Martis 2 oz., pulv. aloes c. canella 1lb., mucilag. gum. tragacanthæ, tinct. aloes, ana q. s.; cut each drachm into 18 pills, put 40 in a box.

SCOTT'S PILLS. Aloes B. 9 lb., pulv. jalap. 3lb., pulv. zingib. 8 oz., ol. anisi ʒj, treacle 21 oz.

2. Aloes 1lb., colocynth. 4 oz., scamm. half an oz., helleb. nigr. half an oz., G. G. G. half an oz., syr. q. s.

3. Res. jalap. ʒss, scamm. ʒij, aloes ʒiv, ol. anisi gtt. xxx, pills 5 gr. each.

MATTHEW'S PILLS, *Pil. Matthæi*. Extr. opii, - rad. helleb. nigri. - rad. glycyrrh., - sapon. tartari, ana ʒiv, croci Anglici ʒviij ʒ

beat it up often, and if it becomes dry moisten it with ol. tereb. rect. Anodyne, gr. iij to gr. x.

STARKEY'S PILLS, *Pil. Starkei*. Extr. opii ꝑiv, nuc. mosch, - bezoard. mineral, ana ꝑij, croci, - rad. serpent. Virgin. ana ꝑj, sapon. tartari lb. ss, ol. sassfr. ꝑss, tinct. antimonii ꝑij. Anodyne, superior to Matthew's pills, but not so much in use.

LOCKYER'S PILLS. Panacea antimonii gr. x, sacchar. cand. alb. ꝑj, fiant pil. 100; one, two, or three taken at a time will work gently by vomit and stool. The formula for panacea antimonii is omitted in its place, and will be found in the corrections and additions.

WARD'S ANTIMONIAL PILL. Glass of antimony, finely levigated, 4 oz., dragon's blood 1 oz., mountain wine q. s. make into pills of gr. jss each.

DINNER PILLS. *Lady Crespigny's pills, Lady Webster's pills, Pil. stomachicæ Mesues, P. L. 1635, P. ante cibum.* Aloes ꝑvj, mastiches, rosæ rubræ, ana ꝑij, syr. absinth. q. s. ; produce a bulky and copious evacuation.

DIXON'S ANTIBILIOUS PILLS. Aloes, scammony, rhubarb, and tartar emetic.

FOTHERGILL'S PILLS. Aloes, scammony, coloquintida, and diaphoretic antimony.

PETER'S PILLS. Aloes, jalap, scammony, gamboge, ana ꝑij.

2. Pulv. jalapii, aloes Barb., cambogiæ, scamm. ana ꝑij, calomel pti. ꝑj, S. V. R. q. s. to form a pill mass.

SPEEDIMAN'S PILLS. Aloes, myrrh, rhubarb, extr. chamæm., ol. chamæm.

BARCLAY'S ANTIBILIOUS PILLS. Extr. coloc. ꝑij, resin. jalapæ ꝑj, sap. amygd. ꝑjss, guaiaci ꝑij, tart. emet. gr. viij, ol. junip., ol. carui, ol. ror. marinæ, ana gtt. iv, syr. rhamni q. s. to form 64 pills.

BARCLAY'S ANTIBILIOUS MASS. Extr. guaiaci ꝑxxxvj, sap. amygd. ꝑxviij, res. jalapii, scamm. Alepp., pulp. colocynth. ana ꝑxij, tart. emet. ꝑj, ꝑvj, gr. viij, ol. caryoph. ꝑj, ꝑij, ol. junip., ol. carui, ol. rorismar. ana ꝑvj, ꝑj, gr. iij, syr. e spin. cerv. q. s. to make a mass.

PIL. ARSENICI. Arsen. alb. gr. j, sacch. albi gr. x, micæ panis q. s., fiant pil. x; tonic in periodical headachs, agues.

Pil. arsenici, P. U. S. Acid. arsenicosi gr. ij, opii gr. viij, saponis gr. xxij.

PIL. CALOMELANOS. Calomel. gr. iij, jalapæ gr. ix, muc. gum Arab. q. s., fiant pil. iij: to be taken at night.

2. Merc. corros. subl. ℥j, hydrarg. ℥j, gum. tragac. gr. xij, scammonii, jalapæ, ana ℥v, syr. simpl. q. s.; make into pills of gr. iv each: usually employed in syphilis, two or four pills every night. The sublimate is changed to calomel.

PIL. CONII. Calomel. gr. ix, extr. conii ℥j, camphoræ ℥ss, spir. rect. gtt. v, fiant pil. xxiv: two to be taken every three or four hours; in spasmodic difficulty of urine.

PIL. FERRI CUM MYRRHA, *Pil. ferri compositæ.* Myrrhæ ℥ij, natri ppi., sal. Martis, sacch. albi, ana ℥j; tonic, emmenagogue, two or four thrice a day.

PIL. E SCILLA, *Pil. scillæ compositæ.* Scillæ rec. ℥j, zingib., sapon. duri, ana ℥iij, gum. ammon. ℥ij, syr. simp. q. s.

PIL. SCILLITICÆ. Scillæ sicc. ℥j, gum. ammon., sem. cardam., extr. glycyrrh. ana ℥j, syr. simp. q. s.

Pil. scillæ cum zingibere. Scillæ pulv. ℥j, zingib. ℥ij, ol. anisi gtt. x, saponis in gelatinam reducti q. s.; expectorant, two or four thrice a day.

PIL. TEREBINTHINÆ. Tereb. Chiæ ℥ij, ℥j, rbarb. ℥j, bals. Copaibæ q. s.

2. Tereb. Chiæ, olibani, ana ℥j, sal. Martis j, bals. Copaibæ q. s.; tonic, astringent, three or six, bis terve in ic, in gonorrhæa.

BOLUS ALUMINIS. Alum. gr. xv, cons. rosar. ℥j, syr. cort. aurant. q. s., in fluxes.

BOL. MOSCHI. Moschi gr. xv, camph. gr. v, syr. q. s.; in convulsive affections and in typhoid fevers.

2. Moschi, ammoniæ carb. ana ℥ss, cons. rosar. q. s.; every three hours in mortifications accompanied with spasms.

BOL. VITRIOLI ALBI. Vitri. albi pur. gr. xxv, cons. rosar. q. s.; in camomile or green tea, when poison has been swallowed.

PILULÆ ANTHELMINTICÆ. G. G. G. gr. viij, calomel, gr. v, muc. gum. Arab. q. s. for one morning dose.

PIL. ASTRINGENTES. Sacch. Saturnii gr. iij, opii gr. j, f. pil. iij; one to be taken twice a day; drinking draughts acidulated with vinegar after it.

PIL. CATHARTICÆ. Extr. coloc. c. ℥j, opii gr. iij, ol. nuc. mosch. gtt. iv., f. pil. xij; dose ij every hour until two stools have been obtained.

2. Aloes Soc. ℥j, scammonii gr. xij, extr. rhabarb. ℥ij, capsici gr. vj, ol. caryoph. gtt. v; f. pil. xvj: dose 2 at bed time, occasionally.

3. Pulv. al. c. ℥j, pulv. antim. gr. v., sapon. duri gr. x, decoct. alc. omp. q. s. ut f. pil. xx: dose 2, when costive.

4. Pulv. al. c. myrrh. ʒj, extr. coloc. c. gr. xxiv, calomel. gr. xv ; f. pil. xx ; dose 1 or 2 occasionally.

5. Calomel. gr. x, pil. cambog. c., extr. colocynth. c. ana gr. xv, syr. zz. q. s. ut f. pil. xij ; dose 2 at night or morning when costive.

6. Rad. jalap. gr. xv, calomel. gr. v, cons. cynosb. q. s. for one dose.

PIL. DIAPHORETICÆ. Potassæ sulphureti gr. xv, sapon. duri ʒj, bals. Peru. q. s. ut f. pil. xxx ; dose iij, every four hours, in juniper-berry tea : useful in eruptions.

2. Pulv. antimonialis ʒss, opii ʒjss, calomel. gr. v, confect. opii q. s. ut f. pil. x ; dose j, at bed-time.

3. Guaiaci gr. x, pulv. ipecac. comp. gr. v, conf. rosæ q. s. for a dose.

4. Guaiaci gr. x, tart. emet., opii, ana gr. j, syr. simpl. q. s. ut f. bolus.

5. Camphoræ, pulv. antim. ana gr. iij, opii gr. j, conf. aromat. q. s. ut f. bolus.

PIL. DIURETICÆ. Rad. scillæ sicc. gr. iv, fol. digital. gr. x., calomel. gr. vj, myrrhæ ʒj, assæfoet. ʒss, extr. gent. q. s. ut f. pil. xv ; dose j, night and morning.

2. Pil. scillæ ʒj, calomel. gr. v, f. pil. xv ; dose ij, every night.

3. Sodæ carbon. sicc. ʒj, sapon. duri ʒiv, ol. juniperi gtt. xv, syr. zz. q. s. ut f. pil. xxx ; dose iij, every day, in calculi in the kidneys.

4. Scillæ sicc. gr. ij, pil. hydrarg. gr. v, opii gr. ss, ut f. pil. j, for a night pill, to be taken three or four nights successively.

PIL. EMETICÆ. Vitriol. albi ʒj, cons. ros. caninæ q. s. ut fiat bolus ; for one dose, to be taken with camomile tea.

PIL. EMMENAGOGÆ. Pil. aloes c. myrrha, pil. galbani c. ana ʒj, f. pil. xxiv ; dose ij twice a day.

2. Pil. aloes c. myrr., pil. ferri c. ana ʒj, sodæ subcarb. ʒj, f. pil. xxx, dose ij, twice a day.

PIL. EXPECTORANTES. Myrrhæ ʒjss, scillæ sic. ʒss, extr. hyoscyami ʒij, aq. q. s. ut f. pil. xxx ; dose 2, night and morning.

PIL. NARCOTICÆ. Extr. hyoscyami gr. xvij, camph. gr. xij, f. pil. xij ; dose iij, every night.

2. Extr. conii ʒss, fol. conii q. s. ut f. pil., each weighing gr. ij, to begin with pill j, night and morning, then ij, iij, and as far as the patient can bear : in cancer, scrofula, and other obstinate diseases.

3. Opii gr. iv, extr. hyos., extr. conii, ana gr. xv, f. pil. vj ; dose j every night.

PIL. STIMULANTES. Canthar. gr. j, ammon. subcarb., conf. aromat. ana gr. v, syr. simpl. q. s. ; for a dose every four or six hours, in horse-radish tea.

2. Myrrhæ ʒjss, vitrioli albi gr. x, conf. rosæ q. s. ut f. pil. xx ; dose ij, twice a day.

PIL. TONICÆ. Ferri ammon. ʒj, extr. gent., aloes Soc. ana ʒss, f. pil. xxx ; dose ij, thrice a day.

2. Ferri carbon. gr. v, rad. valerianæ ʒss, syr. zz. q. s. ut f. bolus.

WORM PILLS. Calomel 1 oz., sugar 2 oz., starch 1 oz., mucil. gum. tragac. q. s. to make 248 pills ; dose no. 1, night and morning, for children.

✓ KEYSER'S PILLS. Hydrarg. acetat. 4 oz., mannæ 30 oz., starch 2 oz., mucil. gum. tragac. q. s., make into pills of gr. vj each ; dose no. 2, nocte manequæ, increasing the dose to no. 25 or more ; a box of 1000 or 1200 pills is usually sufficient for the cure of a common case of syphilis.

FOR VETERINARY MEDICINE.

ALTERATIVE BALLS. Emetic tartar 5 oz., powd. ginger 3 oz., opium 1 oz., syrop q. s. to make 16 balls.

ALT. LAXATIVE BALL. Barbadoes aloes 1 oz., Castille soap $1\frac{1}{2}$ oz., powdered ginger half an oz., syrop q. s. to make six balls ; for grease.

ALT. BALL FOR STRANGLES. Barbadoes aloes $1\frac{1}{2}$ dr., emetic tartar and Castille soap of each 2 drachms ; make a ball.

ALT. BALL FOR WEAK HORSES. Calomel 1 scr., aloes 1 dr., cascarrilla and rhubarb of each in powder 2 dr., Castille soap 3 dr., syrop q. s. to make a ball.—Alterative powders may be made into balls with flower and treacle.

ANODYNE BALL. Opium half a drachm to 1 dr., Castille soap 2 to 4 dr., ginger powder 1 to 2 dr., anise seed powd. half an oz. to 1 oz., oil of caraway-seeds half a dr., syrup q. s. to form a ball.

ASTRINGENT BALL. Powdered opium half a drachm, natron ppm. 1 dr., powd. cassia or ginger $1\frac{1}{2}$ dr. ; wheat flour and syrup to form a ball.

ASTRINGENT BALLS FOR LOOSENESS. Opium half a drachm to 1 dr., ginger powd. 1 dr. and a half, opd. chalk 3 dr., flour 2 dr. ; make into a ball with treacle, syrup, or honey.

2. Gum kino 2 dr., aromatic powder $1\frac{1}{2}$ dr., Castille soap and flour of each 2 dr., honey q. s. to make a ball.

BALL FOR BLOODY URINE. Powdered catechu half an oz., alum half an oz. to 1 oz., cascarilla bark 1 to 2 dr., liquorice powder and treacle q. s. to make a ball.

CAMPFIRE BALLS. Camph. 2 dr., liquorice powder and syrup q. s. to make a ball.

2. Camph. 2 dr., nitre 1 oz., liquorice powder and syrup q. s. to make a ball.

COLICK BALL. Powd. opium half a dr., Castille soap and camphire of each 2 dr., ginger $1\frac{1}{2}$ dr.; make into a ball with liquorice powder and treacle: to be kept in a bladder for use on a journey.

CORDIAL BALL. Caraway seeds fresh powdered 3 dr., Winter's bark and ppd. chalk of each 2 dr., opium half a dr., oil of aniseed 20 drops, syrup q. s. to form a ball.

2. Ginger 2 dr., liquorice root powd. half an oz., oil of caraway and of anise seeds of each 12 drops, treacle q. s. to make a ball.

CORDIAL DIURETIC BALLS. Strained turpentine 8 oz., yellow rosin 4 oz., soap 6 oz., sweet oil 2 oz.; melt together, and add oil of anise seed 2 oz., oil of caraway half an oz., previously rubbed with ginger 4 oz.: make into 16 balls with linseed powder.

CORDIAL DIURETIC BALL. Hard soap and common turpentine of each 4 dr., ginger powder 1 dr., opium powder half a dr., caraway seed powder q. s. to make a ball.

CORDIAL BALLS FOR JOURNEYS, *Globuli cardiaci.* Cumin seed, anise seed, caraway seeds, all powdered, of each 4 oz., ginger 2 oz., treacle q. s. to make into balls: dose 2 oz.

2. Anise seed, caraway seed, sweet fennel seed, stick liquorice, all powdered; of each 4 oz., ginger and cassia of each $1\frac{1}{2}$ oz., honey q. s. to make into balls: dose 2 oz.

3. Cumin seed, coriander seed, caraway seed, all powdered, of each 4 oz., grains of Paradise 1 oz., cassia half an oz., cardamom seeds and saffron of each 2 dr., syrop q. s. to form into balls: dose 2 oz.

4. Powd. ginger 4 oz., powd. caraway seed 8 oz., oil of caraway and oil of anise seed of each 2 dr., liquorice powder 8 oz., treacle q. s. to form into balls: dose 2 oz.

COUGH BALL. Gum ammon. 3 to 4 dr., soap 2 dr., ginger $1\frac{1}{2}$ dr., powder squills and camphire of each 1 dr., oil of anise seeds 20 drops, syrup q. s. to make a ball.

2. Gum ammoniac 3 dr., powdered squills 1 dr., opium half a dr., syrup q. s. to make a ball.

DIAPHORETIC ALTERATIVE BALLS. Antimonial powder 2 dr., camphire $1\frac{1}{2}$ dr., flour 3 dr., syrup q. s. to make a ball.

2. Emetic tartar, camphire, of each 1 to 2 dr., liquorice powd. 3 dr., syrup q. s. to make a ball.

DIURETIC BALLS, *Globuli diuretici.* Castille soap 4 oz., nitre and rosin of each 2 oz., oil of juniper half an oz., linseed meal and syrup of each q. s. to make 6 balls for strong horses, or 8 for delicate.

2. Castille soap 4 oz., Venice turp. 2 oz., powd. anise seed q. s. to make 6 balls.

3. Castille soap, strained turpentine, of each 3 dr., liquorice powder q. s. to make a ball.

4. Hard soap and common turpentine, of each half an oz., caraway seed powder q. s. to make a ball.

DIURETIC ALTERATIVE BALLS. Yellow rosin 4 oz., Castille soap 3 oz., Venice turp. 2 oz., caraway seed powd. q. s. to form into balls.

2. Saltpetre 4 oz., rosin and flour of each 2 oz., oil of juniper half an oz., treacle q. s. to make into balls.

FARCY BALLS. Corrosive subl. 10 to 20 grains, powd. anise seeds half an oz., syrup q. s. to make a ball; if sickness, much purging or staling is produced, diminish the dose of sublimate.—

2. The same, with half a drachm or a drachm of opium.—3. Blue vitriol 1 dr., liquorice powder 3 dr., syrup q. s. to form a ball, to be given twice a day.—4. Blue vitriol 1 dr., corrosive sublimate 10 grains, liquorice powder 3 dr., syrup q. s. to form a ball.—5. Blue vitriol 1 dr., white arsenic and corrosive sublimate, of each 10 grains, liquorice powder 3 dr., syrup q. s. to form a ball. If any of these produce a purging, they must be discontinued immediately.

FEVER BALLS. Emetic tartar 2 dr., nitre 1 oz., liquorice powd. 3 dr., syrup q. s. to make a ball.

BALLS FOR EPIDEMIC FEVER. Powders for epidemic fever, made up into balls with flour and syrup, or treacle.

GARLICK BALLS. Garlick 1 to 2 oz., pound into a paste, liquorice powder q. s. to make into a ball; used in chronic coughs.

GRIPE BALL. Cayenne pepper half a dr., made up into a ball with powd. anise seed, liquorice powder, and syrup.

LAXATIVE BALL. Barb. aloes and hard soap of each 3 dr., syrup q. s. to make a ball.

LAXATIVE ALTERATIVE BALLS. Barb. aloes 10 to 12 dr.,

Castille soap 21 dr., anise seed powd. 12 to 16 dr., ginger 4 dr., syrup or treacle q. s. to form 4 balls.—2. Barb. aloes 10 to 12 dr., calomel 2 to 4 dr., caraway seed powd. 12 dr., ginger 4 dr., oil of cloves 40 drops, syrup q. s. to make 4 balls.—3. Flowers of sulphur 6 oz., emetic tartar 6 or 8 dr., corrosive sublimate 10 gr., syrup q. s. to form 6 balls.

MANGE BALLS. Corrosive sublimate half an oz., emetic tartar 3 oz., anise seeds powdered 6 oz., ginger 2 oz., syrup q. s. to make 16 balls; one to be given every morning, unless they purge.

MERCURIAL BALL. Calomel half a dr., Barbadoes aloes 2 dr., rhubarb, Castille soap, of each 3 dr., syrup q. s. to make a ball; used in inflammation of the liver.

PHYSIC BALL. Barb. aloes 5 to 8 dr. hard soap 4 dr., ginger 1 dr.; melt together in a slight heat: if made for keeping add a little sweet oil. The best ball that can be made.—2. Barb. aloes 5 dr., natron ppd. 2 dr., aromatic powd. 1 dr., oil of caraway 10 drops, syrup q. s. to make a ball.—4. Barb. aloes 7 dr. to 1 oz., natron ppd. 2 dr., aromatic powder 1 dr., oil of anise seeds 10 drops, syrup q. s. to make a ball.

STOMACHIC BALLS. Gentian powd. 4 dr., ginger powd. $1\frac{1}{2}$ dr., ppd. natron 1 dr., treacle q. s. to form a ball.—2. Cascarrilla powder 2 dr., myrrh powd. $1\frac{1}{2}$ dr., Castille soap 1 dr., treacle q. s. to form a ball.—3. Quassia powd. 2 dr., aromatic powder $1\frac{1}{2}$ dr., ppd. natron 1 dr., treacle q. s. to form a ball.—4. Columbo powd. half an oz., cassia powd. 1 dr., rhubarb powd. 2 dr. to 4 dr., syrup q. s. to form a ball.

STOMACH LAXATIVE BALL. Barb. aloes 3 to 5 dr., white soap 3 dr., ginger powdered 2 dr., oil of caraway 20 drops, syrup q. s. to make a ball.

STOMACHIC PURGATIVE BALL, for washey horses. Barb. aloes 3 dr., rhubarb 2 dr., ginger and cascarrilla of each 1 dr., oil of camomile 20 drops, carbonate of soda 2 dr., syrup q. s. to make a ball.

STOMACHIC PURGATIVE BALL for thin ill-conditioned horses. Barbadoes aloes half an oz., rhubarb 2 dr., calomel 1 dr., ginger $1\frac{1}{2}$ dr., oil of caraway 10 drops, Castille soap 2 dr., syrop q. s. to make a ball.

STRENGTHENING BALL. Columbo root powd. 2 dr., cascarrilla powd. 1 dr., natron ppm. 2 dr., syrup q. s. to make a ball. The horse to have gruel made of wheat flour or arrow-root: sometimes half a drachm of opium may be added, which will generally stop the looseness for some time.

SULPHUR BALL. Flower of sulphur 1 to 2 oz., emetic tartar

1 to 2 dr., calomel 1 to 2 scruples; mix, for a dose to be given daily in mange and skin diseases.

TONIC BALLS. White arsenic 5 to 10 gr., anise seed powd. half an oz., opium half a dr., treacle q. s. to form a ball.—2. White arsenic 5 to 10 gr., opium half a dr., white vitriol, or blue, or green, 2 dr., caraway seeds powd. $\frac{1}{2}$ oz., treacle q. s. to form a ball.—3. Peruv. bark powd. 1 oz., opium half a dr., ginger $1\frac{1}{2}$ dr., oil of caraway 20 drops, treacle q. s. to form a ball.—4. Cascarella and gentian root powd. each 2 dr., opium half a dr., oil of caraway 20 drops, treacle q. s. to form a ball.—5. Quassia and canella alba of each 2 dr., opium half a dr., ginger 1 dr., treacle q. s. to form a ball.—6. Gentian root powd. 3 dr., opium half a dr., cascarella, myrrh, and ppd. natron, of each 1 dr., treacle q. s. to form a ball.—7. Colombo powd. 3 to 4 dr., opium 1 dr., cassia 1 dr., all-spice powd. 2 dr., treacle q. s. to form a ball.—8. Yellow bark 6 dr., cascarella 1 dr., powd. opium half a dr., salt of tartar 1 scrup., syrup q. s. to make a ball; if the horse is costive, the opium must be omitted.

Tonic ball, for washey horses. Salt of steel 2 to 4 dr., Columbo root 3 dr., cascarella bark 2 dr., opium 1 scrup., syrop q. s. to make a ball.—2. Blue vitriol 1 dr., liquorice powder 3 dr., treacle q. s. to make a ball.—3. Salt of steel 2 to 4 dr., powdered myrrh 2 dr., ginger 1 dr., syrop or treacle q. s. to make a ball.

Tonic ball, for excessive staling in horses. Gentian root half an oz., ginger 2 dr., opium half a dr. to 1 dr., oil of caraway 20 to 30 drops, syrop q. s. to make a ball.

Tonic ball, for incontinence of urine in horses. Blue vitriol 1 dr., Venice turp. 3 to 4 dr., ginger 2 dr., liquorice powder q. s. to make a ball.

WORM BALLS. Aloes 4 to 6 dr., Castile soap 3 dr., calomel, ginger powd., of each 1 to 2 dr., oil of cloves 10 drops, syrop q. s. to form a ball.—2. Aloes 4 to 6 dr., powdered tin 3 to 4 dr., Castille soap 3 dr., ginger powd. 1 to 2 dr., oil of cloves 10 to 20 drops, syrop q. s. to form a ball.

PURGING BOLUS FOR DOGS. Jalap and rhubarb of each 10 to 20 gr., ginger 3 or 4 gr., soap 10 gr., water q. s.; if this does not open the bowels, add aloes half a dr., or 3 or 4 gr. of calomel. In the distemper it must be preceded by a copious bleeding, and abstinence from food for a day and a night.

HARD CONFECTIONS; OR, DRY COMPOSITIONS PRINCIPALLY COMPOSED OF SUGAR.

Two methods are generally followed in making hard confections. Some are made with sugar, of which one half in fine

powder is dissolved in an infusion or decoction in a brass or iron ladle lipped to the right; and when dissolved, the other half of the sugar, previously warmed, and any essential oil, is added, well stirred in, and the grouty mass dragged out by a wire to form drops on a slab sprinkled with sugar or starch. In others the sugar is not dissolved, but the mass is made to cohere by a mucilage, generally of gum tragacanth, or by white of eggs.

Ambergris is the only perfume that can be properly used for perfumed lozenges and tablets for the mouth.

FOR MEDICAL USE.

MARSH-MALLOW LOZENGES, *Trochisci althææ*. Rad. althææ, in powder, 1lb., white sugar 4lb., muc. g. tragac. q. s.

STARCH LOZENGES, *Trochisci bechici albi*, *T. amyli*. Amyli ʒjss, rad. glycyrrh. ʒvj, rad. iridis Flor. ʒss, sugar lb. jss, muc. g. trag. q. s.

T. amyli sine iride. As the other, but without the orrice.

MORSULI AROMATICI. Sugar 1lb. j, water q. s.; dissolve, boil to a full candy height, when half cold add amygdal. dulc. decort., cort. aurant. condit. ana ʒj, cinnam. ʒss, zz. ʒj, all cut in small pieces.

MORSULI ACETI. White sugar 1lb., dissolve, evaporate, and form into lozenges, which imbibe with acetic acid 2 oz.

ANTIMONY LOZENGES, *Morsuli stibii Kunkelii*. Sulph. antim. ppi., - amygd. dulc. excort. ana ʒss, citri cort. cond. ʒij, syr. simp. q. s.; make into 8 cakes; dose one a day: the best mode of exhibiting sulphuret of antimony as an alterative.

TROCH. BECHICI ALBI, (P. Belg.) Gum. Arab. - sacch. alb. ana ʒviiij, dissolve in a small quantity of water, evaporate, add white of egg beat up with orange flower water ʒiv, and make into troches.

YELLOW PECTORAL LOZENGES, *Tr. bechici flavi*. Rad. irid. Flor. ʒvj, rad. glycyrrh. ʒiiij, amyli ʒss, croci pulv. ij, sugar ʒviiij, muc. g. trag. q. s.

LOZENGES FOR THE HEARTBURN, *Tab. cardialgicæ* Cret. ppæ. ʒiv, chel. cancr. ppm. ʒij, bol. arm. ʒj, nuc. mosch. ʒj, sugar ʒiiij, water q. s.

TRO. E CRETA. Cret. ppæ. ʒiv, chel. cancr. ppm. ʒij, cinn. ʒss, sugar ʒiiij, muc. g. Arab. q. s.

TRO. CARBONATIS CALCIS. Cret. ppæ. ʒiv, gum. Arab. ʒj, nuc. mosch. ʒj, sugar ʒvj, water q. s.

COUGH LOZENGES., *Tablettes anticatarrhales de Tronchin*. Gum Arab. ʒviiij, kermes miner. - sem. anisi ana ʒiv, suc. gly-

cyrrh. ʒij, extr. opii gr. xij, sacch. albi lb. ij : make into small lozenges.

CLOVE LOZENGES. Cloves ʒv, sugar 1lb. 8 oz, muc. g. tragac. q. s. ; make 150 lozenges, containing gr. ij of cloves each ; used as restoratives after fatigue, or added to chocolate to render it stomachic.

2. Sacch. alb. 7lb., gum. tragac. ʒxiv, ol. caryophyl. ʒss.

CATECHU LOZENGES. Catechu in powder ʒiij, powdered cinnamon ʒij, oil of cinnamon gtt. v, white sugar ʒxiv, mucilage of tragacanth q. s. In relaxations of the uvula, and in irritation about the larynx.

CACHOU LOZENGES. Catechu 3 oz, sugar 12 oz, muc. g. trag. q. s.—*Cachou à l'ambre gris.* The same, with ambr. gris. gr. viij.—*Cachou musqué.* The same, with mosch. gr. viij.—*Cachou à la fleur d'oranges.* The same, with ess. neroli gtt. vj.

Cachou à la réglisse. Catechu 2 oz., ext. glycyrrh. pur. 1 oz., sugar 10 oz., muc. g. trag. q. s.—*Cachou à la violette.* The same, with rad. irid. Flor. ʒjss.

Cachou à la canelle. Catechu 3 oz., cinnamon ʒjss, ol. cassiæ gtt. v, sugar 14 oz., muc. g. trag. q. s.

All of these are used to fasten the teeth, and disguise a stinking breath.

CINNAMON LOZENGES. Cinnamon 7 oz., sugar 12 oz., muc. g. trag. q. s. : stomachic.—2. Sacch. alb. 8lb., ess. cinnam. 3 oz., muc. trag. 18 oz.

SAFFRON LOZENGES. Hay saffron, dried and powdered, 1 oz., sugar 1lb., muc. g. trag. q. s. : anodyne, pectoral, emmenagogue.

BLACK PECTORAL LOZENGES, *Tr. bechici nigri*, P. L. before 1745. Extr. glycyrrh., sacch. ana ʒx, gum. tragacanth., amygd. dulc. decort. ana ʒvj, muc. sem. cydon., made with rose water q. s.

TRO. BECHICI NIGRI, P. L. since 1745. Extr. glycyrrh., sacch. ana ʒx, gum. tragac. 1lb. ss, water q. s.

TRO. GLYCYRRHIZÆ. Extr. glycyrrh., sacch. ana ʒx, gum. tragac. ʒiij. water q. s.

Tro. glycyrrhizæ glabræ. Extr. glycyrrh, gum. Arab. ana 1lb. j, sacchari 1lb. ij, warm water q. s. ; dissolve, strain, and evaporate.

Tro. glycyrrhizæ cum opio. Opium ʒij, dissolved in tinct. bals. Tolut. ʒss, syr. simp. ʒviij, extr. glycyrrh, gum Arab. ana ʒv, made into troches of gr. x each.

IPECACUANHA LOZENGES. Ipecac. ʒiv , sugar 2lb., muc. g. trag. q. s.; make 480 lozenges, containing each gr. ss of ipecacuanha; expectorant; used in coughs, also stomachic.

2. (P. Belg.) Cort. rad. ipec. ʒj , sacch. albi ʒviiij , muc. g. trag. q. s.

ORRICE LOZENGES, Violet lozenges. Rad. irid. Flor., gum. Arab. ana ʒij , rad. glycyrrh. ʒvj , sugar 1lb. 8 oz. muc. g. trag. q. s.

GUM LOZENGES, Tro. gummosi. Gum Arab. 4 oz, starch 1 oz, sugar 12 oz, aq. rosæ q. s.

LEMON DROPS. Sugar 1lb. in very fine powder, dissolve one half along with salt of sorrel ʒiiij , in the smallest quantity of water; as soon as it boils add the other half of the sugar, and ess. limon. gtt. viij, drag it out immediately by a crooked wire in drops upon a slab.—2. Use concrete acid of lemons, or acid of tartar, instead of the salt of sorrel.—3. Colour with turmeric.

LEMON SUGAR. Concrete acid of lemons 3 oz, sugar 4lb., essence of lemons ʒij .

MOESULI CITRI. Sugar 16 oz, citron or lemon juice $2\frac{1}{2}$ oz, eleosacch. citri 4 oz; dry.

STEEL LOZENGES. Sugar 3lb. 8 oz, iron filings, or rust of iron, 8 oz, cinnamon 2 oz, muc. g. trag. q. s.; stomachic, tonic.

Aromatic lozenges of steel. Are prepared with vitriol. vir. and a little tinct. canthar.

CANDIED HOREHOUND. *Marrubium conditum.* Juice of horehound 1 pint, white sugar 4lb., brown sugar 6lb.

MAGNESIA LOZENGES, Tro. e magnesia. Magnes. ustæ ʒiv , zz. ʒj , sugar ʒij , muc. g. Arab. q. s.

2. Magnesia 1 oz, sugar 4 oz, muc. g. trag. made with aq. flor. aurant. q. s.

PURPLE TABLETS. Magnesiæ 3lb., sacch. alb. $1\frac{1}{2}$ lb., drop lake 1 oz, gum. tragac. 3 oz; mix.

NUTMEG LOZENGES. Sacch. alb. 8lb., gum. tragac. $2\frac{1}{2}$ oz, ol. nuc. mosch. 1 oz.

PEPPERMINT DROPS. Sugar 2lb., peppermint water 4 oz, made into drops, as those of lemons: essence of peppermint may be added, if they are required to be very warm.

Peppermint lozenges. Sugar 2lb., starch 2 oz, essence of peppermint q. p. muc. gum. trag. q. s.—2. Use plaster of Paris instead of starch, to give a body to these lozenges; stimulant.—3. Sacch. alb. 4lb., muc. g. tragac. q. s., ol. menth. pip. ʒvj .—4. White sugar ʒxivss , melt in a ladle, add white sugar ʒjss mixed

with oil of peppermint gr. xliv, and drop on a slab rubbed with oil of sweet almonds.—5. *Manus Christi* lb. ss, imbibe it with ol. menth. pip. ʒss, dissolved in alcohol ʒjss.—6. *Ichthyoc.* ʒj, water ʒij, dissolve, add eleosacch. menth. pip. lb. j.—7. *Sacch. albi* ʒvj, ol. menth. pip. gtt. xxxvj, white of 2 eggs; rub together, and form into troches.

NITRE DROPS. *Sal. nitri* 4 oz., sugar 1lb., water 2 oz.

Nitre lozenges, Tro. nitri. *Sal. nitri* 4 oz., sugar 1lb., muc. g. trag. q. s.; diuretic internally, held in the mouth to remove incipient sore throats.

PASTILLES DE ROSE. Sugar 2lb., rose water 4 oz., made into drops.

Manus Christi. The same, made into a flat cake.

Pâte de rose lozenges, Patirosa lozenges. Sugar 2lb., starch 4 oz., ol. rhodii gtt. vj, muc. g. trag. made with rose water coloured with cochineal q. s.; pectoral.

TROC. SPONGIÆ USTÆ. *Sacchar. albi* 3 oz., spong. ust. 1 oz., extr. glycyrrh. ʒij, pulv. amyli ʒij, mucil. g. Arab. q. s.

RHUBARB LOZENGES. *Rhubarb*, 1 oz., sugar 6 oz., muc. g. trag. made with aq. cinnam. q. s.; cathartic.

SULPHUR LOZENGES, Tro. sulphuris. *Flor. sulph.* 1 oz., sugar 8 oz., muc. g. trag. q. s.; pectoral; used in asthma and piles.

PECTORAL LOZENGES. *Fl. sulph.* ʒvj, *fl. benz.* ʒss, *gum. Arab. rad. irid. Flor. ana* ʒij, *balsam. sulph. anis.* ʒj, sugar 18 oz., muc. g. trag. q. s.

TOLU LOZENGES. Sugar 2lb., cream of tartar 3 oz., starch 1 oz., tinct. bals. Tolu ʒiv, muc. g. trag. q. s.; pectoral.

PATE DE TUSSILAGE A L'ANIS. Extr. glycyrrh. dissolved in a strong decoction of the flowers of coltsfoot and cudweed, strained and evaporated to a paste, adding a little ol. anisi towards the end; pectoral.

VANILLA LOZENGES. *Vanilla* in powder 3 oz., sugar 18 oz., muc. g. trag. q. s.: each lozenge ought to contain gr. ij of vanilla; odoriferous, stomachic.

ZINC LOZENGES. Sulphate of zinc ʒiv, refined sugar lb. ij, mucilage of tragacanth q. s.; divide into lozenges, so that each may contain gr. $\frac{1}{2}$ of the zinc.

GINGER LOZENGES. *Zz.* 1 oz., sugar 1 lb., muc. g. trag. q. s.; stimulant, stomachic.—2. *Pulv. zingib.* 10 oz., *sacch. alb.* 8 lb., muc. trag. 18 oz.

Ginger candy. *Zz.* 2 oz., boiling water q. s. to strain a pint, white sugar 6lb., brown sugar 8lb.

Ginger drops. Sugar 2lb., strong infusion of ginger 4 oz.

TABLETTES DE SPITSLAIT. Raisins 1lb, pearl barley 1lb. 8 oz., water q. s. ; boil for a short time, dissolve opii ʒss, gum. Arab. 4 oz., Spanish liquorice 1 oz. in water ; mix the two liquors, strain, add brown sugar 4lb., clarify the syrop with white of eggs, evaporate to a paste, adding anise seed, in powder, ʒiij, towards the end, pour it out upon a slab, divide and dry ; pectoral in obstinate coughs.

WORM CAKES. Scamm. Alepp. 2 oz., calomel ppd. 3 oz., res. jalapii 2 oz., crem. tartari 4 oz., white sugar 3lb., muc. g. trag. q. s.

2. Calomel 1 oz., res. jalap. 2 oz., white sugar 2 lb., muc. g. trag. made with rose water q. s. ; make 1960 lozenges, weighing gr. viij., and containing calom. gr. 1-4th. res. jalap. gr. ss. each.

3. Scammon. and crem. tart. ana ʒj, calomel ppt. ʒss, sacchar. alb. ʒj, muc. g. trag. q. s. ; will make 80.

Storey's worm cakes. Calomel ʒj, jalap. ʒj, zz. ʒij, sacch. 1 oz., cinnabar. antim. q. s. to colour them, syr. simp. q. s. to make into cakes.

Ching's yellow worm lozenges. Saffron ʒiv, water 1 pint ; boil, strain, add calomel 1lb., white sugar 28lb., muc. g. trag. q. s. : each lozenge should contain gr. j of calomel.

Ching's brown worm lozenges. Calomel 7 oz., extr. jalapii resinos. 3lb. 8 oz., white sugar 9lb. muc. g. trag. q. s. ; each lozenge should contain gr. ss. of calomel.

LOZENGES OF PURE EMETINE. Pure emetine gr. vj, sugar ʒiv ; make into 260 lozenges ; emetic.

Emetic lozenges of emetine. Emetine gr. xxvj, sugar ʒij ; make into 66 lozenges : emetic, no. j for a child, iv for an adult.

Pectoral lozenges of emetine. Emetine gr. xxvj, sugar ʒiv, carmine q. s. to colour them red ; make into 260 lozenges ; occasionally in chronic coughs, hooping cough, and chronic diarrhœa : more than one in an hour will excite nausea.

FOR CONFECTIONARY.

Pâte de gomme Arabique. Very white gum Arabic, white sugar, of each 2lb. 8 oz., boiling water 5 pints ; dissolve, strain, evaporate without boiling to the consistence of honey ; beat up the whites of 12 eggs with orange flower water 4 oz. measures, which mix gradually with the paste, and evaporate over a slow fire, stirring it continually till it will not stick to the fingers or wooden slice : it should be very light, spongy, and extremely white ; pectoral : sold for Pâte de guimauve.—2. Add starch towards the end : this is an inferior article.

Pâte de gomme de Senegal. White sugar 5lb., washed gum Senegal 6lb., water 30 pints, make into a paste, add orange flower water 9 oz. by weight; essence of lemons and citric acid may be added to flavour it: sold for *Pâte de dattes*, and *Pâte de jujubes*.

Pâte de guimauve, Pasta althææ. Rad. althææ decort. ζ iv, water 5 pints; boil to 4 pints, strain, add gum. Arab., sacch. a lb., of each lb. ij, evaporate to an extract, then take from the fire, stir it quickly with the white of 12 eggs, previously beat to a froth, add, while stirring, aq. flor. aurant. $\text{f}\overline{\text{3}}$ iv.—*Pâte de gomme Arabique* is sold for it.

Pâte de dattes. Dates $1\frac{1}{2}$ lb., white sugar 5lb., washed gum Senegal 6lb., water 30 pints, orange flower water 9 oz. by weight; prepare as the *Pâte de gomme Arabique*: produce about 9lb.—*Pâte de gomme de Senegal* is sold for it.

Pâte de jujubes. Raisins stoned 1lb., currants picked, jujubes opened, of each 4 oz., water q. s.; boil, strain with expression, add sugar 2lb. 4 oz., gum. Arab. 2lb. 8 oz., previously made into a mucilage with some water, and strain; evaporate gently, pour into moulds, finish the drying in a stove, and then divide it: expectorant in coughs.—*Pâte de gomme de Senegal* is sold for it.

Refined juice, Refined liquorice. Spanish liquorice 4lb., gum. Arab. 2lb., water q. s.; dissolve, strain, evaporate gently to a soft extract, roll into cylinders, cut into lengths, and polish by rubbing them together in a box; expectorant in coughs, &c.—2. Spanish liquorice, carpenter's glue, of each lb. j, water q. s.

Pâte de réglisse noire. Refined liquorice 8 oz., gum Arabic 2lb., sugar 1lb., water q. s.; dissolve, and evaporate till it forms a very thick syrup, add rad. enulæ camp., rad. irid. Flor. ana $\overline{\text{3}}$ ss, ess. de cedrat a few drops, put into tin moulds, and dry in a stove.

Pâte blanche de réglisse. From the roots of liquorice, in the same manner as *pâte de guimauve*; pectoral.

Barley-sugar, Saccharum hordeatum. Sugar 1lb., saffron 12 grains, water q. s.; boil to a full candy height, pour it out upon an oiled slab, and roll it in cylinders: formerly a decoction of barley was used.—2. Use mucilage of gum Arabic, and flavour with lemons.

White barley-sugar, Penides, Alphenic. Sugar q. p., decoction of barley q. s.; boil to a full candy height, add a few drops of ess. Bergamotte or ess. of lemons, and twist it together, that the air may render it white.—2. Add starch to give the whiteness.

Chocolate, Chocolada, Chocolat de Santé. Caraccas cacao 8lb., Island cacao 2lb., roast them, and while warm add white sugar 10lb., make into a paste on a heated slab; produces 22lb.—2. Caraccas cacao 8lb., sweet almonds q. s. to relieve the dryness of

this cacao; some add butter.—3. Island cacao 8lb., starch powder q. s. to absorb the fatness of this cacao.—4. Cacao cake from whence the oil has been pressed, mutton suet q. s.

Spanish chocolate. Use seeds of ground peas for cacao, and add maize flour.

Chocolat à la vanille. To 20lb. of the best chocolate paste add cinnamon, Mexican vanilla, of each 3 oz., cloves ʒj: used as a nourishing and restorative food.

POWDERS AND STONES.

FOR MEDICAL USE.

TRUE GASCOIGNE'S POWDER, *Pulvis e chelis cancrorum compositus*, P. L. before 1745. Margarit. ppm., ocul. cancr., corall. rubr., succin. alb., corn. cervi calc., lap. bezoard. Orient. ana ʒj, chel. cancr. ʒvj; make into balls.

LADY KENT'S POWDER, *P. bezoarticus, Globuli bezoardicus.* Chel. cancr. ʒvij, marg. pp., coral. rubr. ana ʒij, lap. bezoar. Orient. ʒj; cordial, in great esteem, although few will go to the price of it.

CEPHALIC SNUFF, *P. cephalicus.* Fol. asari, fol. majoran., fol. lil. convall. ana p. æq.

P. sternutatorius, P. asari compositus, P. L. Fol. sicc. asari, fol. majoranæ, fol. mari Syr., flor. lavand. ana p. æq.

P. asari compositus, P. D. Fol. sicc. asari ʒj, flor. lavand. ʒij.

P. asari compositus, P. E. Fol. asari 3 oz., fol. majoran., flor. lavand. ana 1 oz.

P. CORNACHINI. Scammon. ʒx, antim. diaphoret. ʒvj, crem. tart. ʒijss; cathartic, febrifuge, ʒj: an excellent medicine.

DIACELTATESSON PARACELSI. Antim. diaph. gr. xvij, res. scamm. gr. xvj, crem. tart. gr. vij. M.

EARL OF WARWICK'S POWDER, *P. comitis Warwicensis.* Scammonii ʒij, antimonii diaph. ʒj, crem. tartari ʒss.

SPECIES DIAMBRE SINE ODORATIS, *Spec. aromaticæ, P. aromaticus,* P. L. et D. Cinnam. ʒij, sem. card. min., zz., piper. long. ana ʒj; the old receipt was more compounded.

P. CINNAMOMI COMPOSITUS. Cinnam. ʒij, sem. cardam. min. ʒjss, zz ʒj, piper. long. ʒss.

P. AROMATICUS, P. E. Cinn., zz., piper. long. ana p. æq.; stimulant, carminative, stomachic, gr. v to x.

PLUMMER'S ALTERATIVE POWDER, *Æthiops Plummeri.* Calomel, sulph. antim. ana ʒij.

SPEC. DIATRAGACANTHI FRIGIDÆ, *P. e tragacantha compositus*, P. L. before 1788. Gum. tragac., gum. Arab., rad. althææ ana ʒss, amyli, rad. glycyrrh. ana ʒss, sacch. albi ʒss; the old formula had all the cold seeds.

P. E TRAGACANTHA COMPOSITUS, P. L. since 1788, *P. tragacanthæ compositus*. Gum. tragac., gum. Arab., amyli ana ʒjss, sacch. alb. ʒiij; demulcent, ʒss to ʒj; used in tickling coughs.

SPECIES HIERÆ PICRÆ. Cinnam., zedoar., asari, sem. cardam. min., croci ana ʒvj, coccinel. ʒj, aloes Socotr. ʒxij.

HIERA PICRA. Gummi aloes lb. j, canel. alb. ʒiij.

P. aloeticus. Aloes Socotr. lb. j, canel. alb. ʒiij.

P. aloes cum canella. Al. hep. lb. j canel. alb. ʒiij.

2. Aloes Barbado. 7lb., aloes Cap. 2lb., canel. alb. 3lb., pimento 1lb., turmeric 1lb. 8 oz. : cathartic, gr. x to ʒj.

PULVIS APERIENS. Pulveris jalapæ ʒss, submuriatis hydrargyri gr. v, pulveris zingiberis gr. v for a single dose.

MEAD'S POWDER AGAINST THE BITE OF A MAD DOG, *P. antylyssus*. Lichen. ciner. terrestr. ʒij, piper. nigr. ʒj.

P. DIASENÆ. Fol. senæ, crem. tart. ana ʒij, caryoph., ciunam., galangæ, sem. ammeos ana ʒij, scammonii ʒss.

P. e sena compositus. Omit the ammi and galanga, and put in zz. ʒij.

P. e sena compositus, P. sennæ compositus. Fol. sennæ, crem. tart. ana ʒij, scammon. ʒss, zz ʒij.

P. DIATURPETHI COMPOSITUS. Rad. turpethi, rad. jalapii, rad. hermodactyli, tartar. vitriol. ana p. æq.

P. JALAPÆ COMPOSITUS. Rad. jalap. ʒj, crem. tart. ʒij; purgative, ʒj, to ʒij.

ÆTHIOPS MINERALIS, *Hydrargyrus cum sulphure, Hydrargyri sulphuretum nigrum*. Argent. vivi, fl. sulphuris ana lb. j.

2. Argent. viv. 7lb., fl. sulph. 14lb.; vermifuge, alterative ʒj to ʒj, bis terve in die; also used by the ferriers and farmers.

P. E BOLO COMPOSITUS SINE OPIO. Boli armen. (or bol. Gall.) lb. ss, cinnam. ʒiij, rad. torment. gum. Arab. ana ʒiij, pip. long. ʒss.

P. E CRETA COMPOSITUS, *P. cretæ compositus*. For bole use ppd. chalk.

P. CARBONATIS CALCIS COMPOSITUS, *P. cretaceus*. Cret. pp. ʒiij, nuc. mosch. ʒss, cinnam. ʒjss; absorbent, stomachic, carminative ʒj to ʒij.

P. E BOLO COMPOSITUS CUM OPIO. Species for pulv. e bol. comp. s. opio as before, add opii colati ʒiij.

P. E CRETA COMPOSITUS CUM OPIO. Pulv. e creta comp. ʒviiiij, opii purif. duri ʒjss.

P. cretæ compositus cum opio. Pulv. cretæ comp. ʒvjss, opii duri ʒiiij; astringent, stomachic, gr. xv to ʒij, which last dose contains gr. j of opium.

PULVIS CAMPHORÆ. Camphoræ ʒss, spir. rectific. q. s., tere cum sacch. purificat. ʒjss, pulv. acaciæ ʒiij; misce bene et in chartulis xij, distribue.

One of these rubbed up with a little water forms an excellent emulsion, especially when a little extract of conium or syrup of poppies is added, in dentition and diseases of irritation.

P. E CERUSSA COMPOSITUS, P. e cerussa. Cerussæ ʒv, sarco-col. ʒjss, gum. tragacanth. ʒss: cooling, astringent; used externally in excoriations.

COMMON GASCOIGNE'S POWDER, P. e chelis cancerorum compositus, P. L. since 1745. Chel. cancer. ppm. lb. j, margarit. ppm. (or cret. ppæ. as in P. L. 1788), corall. rubr. pp. ana ʒiij; absorbent, ʒss to ʒj.

CONTRAYERVA BALLS, Lapis contrayervæ, Globuli contrayervæ, P. contrayervæ compositus, P. L. since 1809. Chel. cancer. ppm. lb. j, cretæ ppæ., corall. rubr. ppi. ana ʒiij, rad. contrayervæ ʒv; the original formula had amber in it.

P. contrayervæ compositus, P. L. since 1809. Test. ppm. lb. jss, rad. contrayervæ ʒv; diaphoretic, ʒj to ʒij.

P. E SUCCINO COMPOSITUS, vice Trochisci de carabe. Succin. pp., gum. Arab. ana ʒx, succ. hypocist., balaust., terræ Japon. ana ʒv, olibani ʒss, opii colati ʒj.

P. KINO COMPOSITUS. Kino ʒxv, cinnam. ʒiiij, opii duri ʒj; astringent; dose of the latter ss to ʒj, which last contains opi gr. j.

P. E MYRRHA COMPOSITUS, P. L. before 1788. Fol. sicc. rutæ, fol. dict. Cret. myrrhæ ana ʒjss, assafœtidæ, sagapeni, cast. Russ., opopon. ana ʒj.

P. e myrrha compositus, P. L. since 1788. Myrrhæ, sabinæ, rutæ, cast. Russ. ana ʒj.

SPEC. E SCORDIO SINE OPIO. Boli Arm. (or boli Gall.) ʒiv, scordii ʒij, cinnam. ʒjss, styr. calam. col., rad. torment., rad. bistort., rad. gentian., fol. dict. Cret., galban. col., gum. Arab. rosor. rubr. ana ʒj, piper. long., zz. ana ʒss.

Spec. e scordio cum opio. Add to the former, opii col. ʒiij.

EUPHORBIIUM PRÆPARATUM. Euphorbium 2 oz., lemon juice a pint; dissolve, strain, and evaporate to dryness.

DIAGRYDIUM, *Diacrydium.* Scamm. lb. j, juice of quinces ℥viiij; infuse 12 hours, and evaporate to dryness.

P. E SCAMMONIO COMPOSITUS, *P. scammonæ compositus.* Scammonii, extr. jalap. duri ana ℥ij, ℥ss; cathartic, gr. x to xv.

P. scammonii compositus. Scammon., crem. tart. ana 1 oz.; cathartic, weaker: dose ℥ss to ℥ss.

P. e scammonio cum aloe. Scammon. ℥vj, extr. jalap. duri, aloes Soc. ana ℥jss, ℥ss.

P. basilicus. Scammon., crem. tart., calomel., cerus. antimonii ana p. æq.

P. E SCAMMONIO CUM CALOMELANE. Scammonii ℥ss calomel., sacch. alb. ana ℥ij; cathartic, vermifuge, gr. v to x, or more.

PULVIS CALOMELANOS CUM DIGITALE. Hydrargyri submuriatis, sacchari albi, āā ℥j, pulveris digitalis ℥ss; misce; dosis, à gr. j ad gr. v.

P. ALOETICUS CUM GUAIACO, *P. aloes compositus, P. aloes cum guaiaco.* Aloes ℥jss, guaiaci ℥j, pulv. aromatic. ℥ss.

P. ALOETICUS CUM FERRO. Aloes Soc. ℥jss, myrrh. ℥ij, extr. gent. duri, sal Martis ana ℥j.

DOVER'S POWDER, *P. sudorificus Doveri.* Tartar. vitriol., sal. nitri ana ℥iiij; throw into a red hot mortar, stir them with a spoon until they have done flaming, powder very fine, and add opii, rad. ipecac., rad. glycyrrh. ana ℥j; dose gr. xl to lxx in wine whey. The red hot mortar must decompose the nitre and produce a ferruginated alkali, and therefore different from the college formula.

2. Tart. vitriol., sal. nitri ana 4 oz., opii, ipecac., rad. glycyrrh. ana 1 oz; diaphoretic, sudorific, gr. vj to xx: used in rheumatism.

P. IPECACUANHÆ COMPOSITUS, *P. ipecacuanhæ et opii.* Ipecac., opii ana ℥j, tartar. vitriol. ℥j.

PULVIS IPECACUANHÆ CUM CALOMELANE. Hydrargyri submuriatis ℥j, pulveris ipecacuanhæ ℥ij, pulveris cinnamomi ℥ss, sacchari albi ℥jss; misce; dosis, à gr. ij ad gr. v.

P. OPIATUS, P. L. Opii ℥j, corn. cerv. usti ℥ix.

P. cornu usti cum opio. Opii ℥j, corn. cerv. usti ℥j, coccinel. ℥j.

P. OPIATUS, P. E. Opii ℥j, cret. ppæ. ℥ix; absorbent, anodyne, gr. v to x, which last contains opii gr. j.

ALKALISED QUICKSILVER, *Æthiops alcalisatus, Hydrargyrus cum creta, P. L.* Argent. vivi ℥ij, cretæ ℥v.

Hydrargyrus cum creta, P. D. Argent. vivi, mannæ ana ʒj; rub till the quicksilver disappears, then add cretæ ʒj, rub again, wash out the manna with a pint of warm water, add cretæ ʒiij more to the sediment while moist, and dry upon blotting paper.

HYDRARGYRUS CUM MAGNESIA. Argent. vivi, mannæ ana ʒj, magnesiæ albæ ʒss; proceed as in the last.

POTENTIAL CAUTERY, *Common caustic*, *Cauterium potentiale*, *Lapis septicus*, *Causticum commune mitius*. Quick lime, soft soap ana p. æq.

CAUSTICUM COMMUNE FORTIUS, *Calx cum cali puro*, *Potassa cum calce*, *Cali causticum cum calce*. Soap ley made of potash q. v. boil to a third or fourth part, and add lime q. s. to soak up the remaining liquor; caustic, not so liable to spread as pure potash, but much weaker.

LAPIS MEDICAMENTOSUS. Alum., lithargyri, boli Arm. ana lb. vj, colcoth. vitrioli aceti opt., ana lb. ij; boil to a stony consistence; astringent, detergent, externally, ʒj, to a pint of water.

LAPIS OPHTHALMICUS, *L. divinus*. Vit. cærul., alumin., nitri ana ʒj; melt together, adding at the end camph. ʒj: used to make an eye water, ʒij to water 4 oz.

PIERRE DIVINE. Roche alum burnt 3 oz., add liquid ammonia ʒj; mix, and add vermilion ʒj; for toothache, a piece to be put into the tooth.

P. DE TRIBUS. Scammon., crem. tartari, antimon. diaphor. ana p. æq.; cathartic, gr. xv to ʒj.

P. STYPTICUS, *P. sulphatis aluminæ compositus*. Aluminis ʒiv, kino ʒj; styptic, gr. x to xv, or externally to bleeding wounds.

MERCURIUS SACCHARATUS. Hydrarg., sacch. albi ana ʒss, ol. tanaceti gtt. xvj: rub till the quicksilver disappears: vermifuge, ʒj in a day.

POUDRE DE LUPULINE. Lupuline ʒj, white sugar ʒij.

PATE ARSENICALE. Cinnab. gr. lxx, sang. dracon. gr. xxij, arsen. albi gr. viij; used in cancer, being made into a paste with spittle when used.

PULVIS EMMENAGOGICUS. Fol. sabinæ sicc., zz. ana ʒss, potas. sulphatis ʒjss; to be taken twice a day.

P. BALSAMICUS. Mastich, myrrhæ, sarcocollæ ana ʒj; mix; to be sprinkled on bared bones, tendons, and ligaments.

PULVIS LIENTERICUS. Pulveris tragacanth. comp., pulveris rhei, ana ʒiij, pulveris ipecacuanhæ comp. ʒj, hydrargyri cum

creta ʒj. *Misce.* Dosis à gr. v ad ʒss, ʒtis, 4tis, vel 6tis horis. Interdum adde extract. catechu, &c.

MOCHLIQUE DES FRERES DE LA CHARITE. Vitri. antim. very finely ground ʒj. sacch. albi ʒij; dose ʒj to ʒss, as a specific in colic from lead.

VITRUM ANTIMONII CERATUM. Ceræ flavæ ʒj, melt and add vitri. antim. in extremely fine powder ʒj: mix well, and keep in the fire for an hour, or till it acquires the appearance of Spanish snuff; cool, and powder; in diarrhœa and dysentery gr. vj twice a day.

P. DIAPHORETICUS. Pulv. antimonialis gr. viij, crem. tartari gr. vj.—2. Pulv. antimonialis gr. vij, salis nitri gr. v; diaphoretic, in fevers.

P. JALAPÆ. Jalapæ ʒj, crem. tartari ʒj.

P. RHABARBARI. Rhabarb. gr. xxv, crem. tart. ʒj; purging.

P. SABINÆ. Fol. sabinæ pulv. ʒij æruginis, Merc. præcip. rubri ana ʒss; to stimulate and consume fleshy tumours.

DUKE OF PORTLAND'S GOUT POWDER, P. Ducis Portlandiæ. Rad. aristol., rad. gentianæ, summ. chamædryos, summ. centaur. min. ana p. æq.; used in gout.

HERRENSCHWAND'S WORM SPECIFIC. G. G. G. gr. x, sal. tartari ʒj.

TONQUIN REMEDY, P. Tunchinensis, P. alexipharmicus Sinensis. Rad. valer. sylv. pulv. ʒj, moschi gr. xvj, camph. gr. vj; mix; antispasmodic, alexiterial, to gr. xij, in hooping-cough; to ʒj in hydrophobia and exanthemata; to ʒijss, in mania.

P. VERMIFUGUS. Sal. comm. ʒij, coccinellæ ʒij; dose ʒss, every morning.—2. Ferri carbon. ʒj, in any vehicle, early every morning.

PULVIS CINCHONÆ CUM SODA. Pulveris cinchonæ, sodæ subcarbonatis, ana partes æquales. Dosis à gr. v ad ʒss, bis terve in die.

PULVIS TONICUS. Ferri sulphatis exsiccati ʒijj, potassæ sulphatis ʒij, pulveris cascarillæ ʒijjss. *Misce.* Dosis à gr. iij ad gr. x, bis terve in die. (*Infantibus.*)

P. TONICUS. Cort. Peruv. ʒss, sal. Epsom. ʒvj; for four doses, one every other hour, in agues,

2. Ferri ammon. gr. v, rhabarb. gr. iij; once a day.

3. Ferri tartar. gr. x, rad. calumbæ gr. xv; for a dose every four hours.

PULVIS CALUMBÆ COMPOSITUS. Pulveris calumbæ ʒj, pulv. rhei ʒss, sodæ subcarbonatis ʒijjss. *Misce.* Dosis à gr. vj ad ʒss, bis de die.

CHELTENHAM SALTS. Glauber's salt, Epsom salt, common salt, of each 28lb.; dry in an oven, and powder; purgative, ʒvj to ʒjss.

2. Sal. Glaub. ʒij, sal. Epsom. gr. lxxvj, sal. comm. gr. x, sal. Martis gr. ss.

3. Common salt, Epsom salt, Glauber's salt, of each 1 lb.; dissolve, filter, and evaporate to dryness, then add green vitriol ʒss.

POUDRE DE MURIATE D'OR-ET-DE-SOUDE. Mur. auri-et-sodæ crystal. gr. j, pulv. lycopod. gr. ij, M.—2. Use pulv. rad. iridis flor. deprived of all its soluble parts by alcohol and water, pulv. lycopodii.

P. DIURETICUS. Rad. scillæ sicc. gr. iij, opii gr. ss, cinnam. gr. x; for a dose twice a day.

2. Rad. scill. sicc. gr. xij, sal. nitri ʒj, sacch. albi, cinnam. ana ʒj, f. pulv. no. vj; dose one, twice a day.

3. Crem. tart. ʒj, rad. scill. sicc. gr. iij, zz. gr. v; for a dose, every six hours.

P. PURGANS. Rhabarb. gr. xv, scam., ammoniæ subcarbon. ana gr. v; for a single dose.

2. Rad. jalap. gr. xv, rad. ipecac. gr. v, ol. cinnam. gtt. ij; for one dose.

3. G. G. G. gr. iij, sacchari ʒj; for a dose, every three hours until a stool is obtained.

PULVIS CATHARTICUS. Submuriatis hydrargyri, pulveris cambogiæ, pulv. jalapæ, pulv. rhei, pulv. cinnamomi, ana ʒij. Misc. Dosis, à gr. v ad ʒj.

P. ANTACIDUS. Pulv. creta c. cum opio ʒj, catechu gr. xv; for a dose, to be taken after each liquid stool, in loosenesses arising from acidity.

P. REFRIGERANS. Salis nitri gr. xv, in a teacup of water, immediately upon its being dissolved.

P. EXPECTORANS. Myrrhæ ʒss, sacchari ʒss; to be taken in divided doses, daily, in any convenient vehicle.

2. Scillæ sicc. gr. viij, ipecac. gr. v, camphoræ ʒj, pulv. antim. gr. vj, sacch. pur. ʒj, f. pulv. iv; dose j, twice a day, in barley water.

3. Myrrhæ gr. xij, ipecac. gr. vj, salis nitri ʒss, f. pulv. iv; dose j, every four hours.

MARRIOTT'S DRY VOMIT. Tartar. emetic., vitrioli casr. ana p. æq.; to be taken without any liquid.

ALUMEN SACCHARINUM. Common alum made up into small sugar loaves, with white of egg and rose water: used by females to make an astringent wash.

P. DIAPHORETICUS. Pulv. ipecac. c. gr. xv, pulv. tragac. comp. ℥ij, f. pulv. iv; dose j, every hour.

2. Pulv. ipecac. c. gr. xv, pulv. antimon. gr. ij, f. pulvis; to be taken at bedtime.

3. Antim. sulphureti præcip., extr. aconiti ana gr. j, magnes. carb. ℥ss, f. pulvis.

4. Pulvis antimon. gr. iij, potas. subcarbon. gr. v, flor. chamæm. ℥j. f. pulv.; dose j, every six hours, for two or three days.

5. Pulv. ipecac. gr. ij, opii gr. j, sal. nitri gr. xvj, f. pulv. to be taken at bedtime.

TARTARUM SOLUBILE EXTEMPORANEUM. Crem. tart. 3lb., kali pp. 1lb.

EXTEMPORE SMELLING SALTS. Sal. ammon. ℥j, kali pp. 3j, ess. limon. gtt. v.

SAL VOLATILE OLEOSUM. Subcarb. of potash, sal ammoniac ana ʒvj, powder, mix, add leaves of Marum Syriacum ʒss, alcohol, P. L. Ojss, (impregnated with ol. caryoph. ʒss, ol. cinnam. ℥j, ol. nuc. mosch. ℥ij, ol. marjoranæ, limon., and aurant., of each ʒj), water Oij; distil with an extremely gentle heat, and as soon as the liquid that rises begins to dissolve the salt that has sublimed, take the vessel from the sand, and collect the salt; extremely fragrant.

SMELLING SALTS, *Sal ammoniacum volatile cum lavandulâ.* Subcarbonate of ammonia ʒviij, grind with ol. lavand. exot. ʒjss; sublime with a gentle heat.

PULVIS SODÆ COMPOSITUS. Sodæ subcarbon. exsiccât. ʒvj, hydrargyri submuriatis ʒj, pulv. cretæ comp. ʒj. Miscæ. Dosis, à gr. v. ad ℥j.

AERATED SODA POWDERS. Sodæ carbonatis ʒss, in each blue paper; acid of tartar gr. xxv, in each white paper; for half a pint of water: pleasant, cooling beverages in summer.

SEIDLITZ POWDERS. Soda tartar. ʒij, sodæ carb. ℥ij, in one paper; acid. tart. gr. xxxv, in the other; for half a pint of water. —Aerated soda powders, in a single bottle, will not keep effervescent more than a month, the acid and alkali uniting. If sugar is added, the same combination takes place: white barley sugar does better, but it will not keep good more than two months.

MIDGELEY'S SODAIC POWDERS. To each paper of acid add 1-8th gr. tartarized antimony.

VAKAKA. Vanilla 1 oz., white sugar 4 oz.; grind together: analeptic.

SPECIES PRO CONFECTIO OPII.—*Species pro mist. cretæ.*

PULVIS SUDORIFICUS. Sulphuret of antimon. 12lb., cream of tartar 4lb.

PULVIS RHEI COMPOSITUS. Pulveris rhei 3ijss, hydrargyri cum creta 3j, potassæ subcarbon. ʒjss, pulv. cinnamomi ʒss. *Misce.* Dosis, à gr. v ad ʒj, bis vel ter die.

P. STANNI FACTITIUS. Polisher's putty 4lb., ivory black 4 oz. The ill effects sometimes arising from tin as a vermifuge, are owing to the substitution of this powder for the filings.

RADIX GLYCYRRHIZÆ TRITA REDUCTA. Rad. glycyrrh. ras, guaiaci, far. tritici ana p. æq.—2. Rad. glycyrrh. 7lb., brown sugar 14lb.—3. Box dust 28lb., fabarum 36lb., curcumæ 3lb., succ. liquoritæ 14lb.—4. Far. trit. 56lb., succin. 2lb., P. D. 6lb., sacch. rub. 7lb.

RAD. ENULÆ TRITA REDUCTA. Rad. enulæ, barley meal ana p. æq.—2. Fabarum 56lb., box dust 14lb., rad. enulæ 28lb.—3. Fabarum 56lb., rad. enulæ 56lb.—4. Pulv. enulæ camp. 40lb., ivory black 12lb., cret. ppæ. 6lb., flour 22lb., yellow ochre 1½lb.

SEMINA FŒNUGRÆCI TRITA REDUCTA. Sem. fœnugræc., pea meal, ana p. æq.—2. Sem. fœnug. 56lb., rad. curcumæ 7lb., fabarum 36lb., whiting 14lb., box dust 14lb.

SEM. ANISI TRITA REDUCTA. Sem. anisi, ras. guaiaci ana p. æq.—2. Sem. lini 32lb., pulv. lini 36lb., ras. guaiaci 20lb., ebor. 4lb., Dutch pink 7lb.—3. Sem. anisi, 21lb., sem. fœnic. dulc. 7lb., ras. guaiaci 28lb., turmeric 1lb., pale rape oil 4 pints.—4. Sem. anisi 56lb., ras. guaiaci 70lb.—5. Stone blue 2lb., cucumæ 2lb., sago 4lb., sem. anisi 65lb., far. trit. 65lb.

PIPER NIGRUM TRITUM REDUCTUM. P. nig. lb. j, hulls of black mustard seed lb. vj.

RAD. CURCUMÆ TRITA REDUCTA. Rad. curcumæ, ras. guaiaci ana p. æq.—2. Rad. curcumæ 12lb., fabarum 12lb., lign. rubri 4lb.

CORTEX PERUVIANUS TRITUS FACTITIUS. Rad. bistortæ, calami aromatici ana p. æq.—2. Cort. quercus, rad. gentianæ, in different proportions.—3. Herb. lycopi Europæi.—4. Rad. gei montani.—5. Cort. fraxini, rad. torment., zz. ground together.—Bugle, ajuga reptans; self heal, prunella vulgaris; yellow loosestrife, lysimachia vulgaris; the bark of the sloe bush, prunus spinosa; the bark of the horse-chestnut tree, æsculus hippocastanum; the bark of several species of willows and sallows, salix: are all substituted for cort. Peruvianus.

CORT. PERUV. TRITUS REDUCTUS. Cort. Peruv., mahogany sawdust, oak sawdust, ground together.

RADIX RHÆI TRITA REDUCTA. Mix the powder with that of the root of meadow rue, or of monks' rhubarb: used for tinctures.

GUM KINO FACTITIUM. Lign. Camp. 48lb., rad. torm. 16lb., rad. rub. tinct. 12lb., water q. s.; boil, add catechu 16lb., strain and evaporate to dryness: it will produce 24lb.

COMMON SMYRNA SCAMMONY, *Scammonium Smyrnense factitium.* Scamm. Alepp. 8 oz., rad. jalap. 4lb., fol. sennæ, ebor. usti ana 1lb., zz. 2 oz., mannæ comm. 3lb., G. G. G 2lb., syr. spinæ cervi 2lb.—2. Rad. jalap. 2lb., fol. sennæ, scamm. Alep. G. G. G. ana 8 oz., eboris usti, zz. ana 4 oz.—3. Scamm. Alep. 1lb., extr. jalap 5lb., gum. guaiac. 10lb., sago 10lb., ivory black 4lb.

CREMOR TARTARI REDUCTUS. Cryst. tart. 3lb., sal. enixi 1lb.

TURPETHUM MINERALE REDUCTUM. Turbith mineral, lowered in price by massicot.

LAPIS BEZOAR FACTITIUS. Bol. Armen., dried blood ana p. æq. muc. g. tragac. q. s.

ÆTHIOPS MINERALIS REDUCTUS. Æthiops mineral and antimony of each 1lb.; grind together: used in diseases of the skin, ʒj in the horse's corn.

ALOE SOCOTRINA TRITA FACTITIA. Al. Capens, at hepat. ana p. æq.

RAD. IRIDIS TRITA REDUCTA. Rad. irid. 84lb., farinæ 12lb.

RAD. JALAPÆ TRITA REDUCTA. Rad. jal. 28lb., ras. guaiac., rad. bryoniæ ana 14lb.

RAD. SALOP TRITA REDUCTA. Pulv. salop. ver. 10lb., amyli, sago dust ana 2lb.; mix.

RAD. SALOP TRITA FACTITIA. Starch and sago dust ana p. æq.

RAD. ZINZIBERIS TRITA REDUCTA. Rad. zinz. 56lb., fabarum 28lb., box dust 28lb., capsici 1lb.

P. ANTIMONIALIS FACTITIUS. Antimon. diaphor. 10 oz., tart. emetic. 1 oz.; some put only 6 oz. of ant. diaph.—2. Corn. cervi usti 18 oz., tart. emet. 1 oz.

LADANUM SPURIUM. G. anime, g. copal, g. lac. g. mastiche ana 2lb., g. Arabic 3lb., catechu, Span. liquorice ana 1lb., syr. Tolut. 8 oz., ess. ambergrise, ess. moschi ana 2 oz.; melt together.

RAD. IPECACUANHÆ TRITA REDUCTA. Mix the ipecacuanha with the seeds of narrow-leaved wild orache, *atriplex patula*; those of garden orache, *a. hortensis*: the root of primrose, *primula veris vulgaris*; or the root of oxlip, *p. veris elatior*.

PULPA COLOCYNTHIDIS FACTITIA. Sem. colocyth. 3lb., rad. bryoniæ 1lb.; sold for the ground pith.

BATTLE'S GREEN SENNA POWDER. This *nostrum* is supposed to be senna leaves heated until they become yellow, and then reduced to a greenish hue by the addition of powdered charcoal.

FOR VETERINARY MEDICINE.

HORSE SPICE, *Species equinus.* Rasur. guaiaci 1lb., zz. nigri, pimentæ, sem. cymini ana 2lb., rad. curcumæ, canellæ albæ ana 1lb.—2. Rad. curcumæ, sem. cymini ana 5lb. zz. 2lb. 8 oz.—3. Piper. Cayennæ 2 oz., fabarum 45lb., mustard hulls 45lb., sem. cumini 15lb., pulv. carui 15lb., pulv. curcumæ 9lb., bacc. lauri 3lb., ivory black 1lb.

COW SPICE. Rad. curcumæ, sem. anisi, rad. glycyrrh., pul. diapente ana p. æq.

DIAPENTE. Rad. aristol. longi, myrrhæ, bacc. lauri, ras. eboris, rad. gentianæ ana lb. j; used by farriers as a tonic.—2. Bacc. lauri 3lb., rad. gentianæ 2lb., rad. curcumæ 4lb. sinapis 3lb.

ABSORBENT POWDERS FOR HORSES. Natron ppd. 2 dr., columbo root powd. 3 to 4 dr., ginger 1 dr.; mix for a dose.—2. Ppd. chalk 4 dr., gentian root powd. 2 to 3 dr., pulvis aromaticus 1 to 2 dr.; mix for a dose.—3. Aloes 2 to 3 dr., rhubarb 3 to 4 dr., natron ppd. 2 dr., ginger 1 to 2 dr.; mix for a dose.

ALTERATIVE POWDERS FOR HORSES. Prep. antimony 6 oz., flowers of sulphur 8 oz.; mix for eight doses.—2. Rosin 4 oz., nitre 3 oz., emetic tartar 1 oz.; mix for eight doses.

ARSENICAL POWDER FOR HORSES. White arsenic gr. j, cream of tartar gr. x; rub well together for a dose, to be given three times a day, unless it produces loss of appetite.

ASTRINGENT POWDER. Alum 4 oz., bole Armenian 1 oz.; mix; for grease and running sores.—2. White vitriol 2 oz., flowers of zinc 1 oz.; mix; for external use.—3. White vitriol and bole of each 2 oz.; mix.—4. Sugar of lead 2 oz., bole 1 oz.; mix.

CAUSTIC POWDER, for canker in horses. Corros. sublim. powd. 1 oz., blue vitriol 2 oz., ppd. chalk 4 oz.; mix.

CORDIAL DIURETIC POWDER, for horses. Nitre, yellow rosin, and carui seeds powdered, of each 1 oz.; mix, for one dose.

DIAPHORETIC ALTERATIVE POWDER, for horses. Ppd. antimony 1 oz., caraway seed powd. half an oz.; mix.—2. Ppd. antimony 2 dr., precipitated sulphuret of antimony half a dr., caraway seeds powd. half an ounce; mix for one dose.

DIURETIC POWDERS FOR HORSES. Rosin and salt petre of each half an ounce; mix for a dose, once or twice a day.

DIURETIC ALTERATIVE POWDER. Yellow rosin and salt petre of each 4 oz.; mix for six or eight doses, one to be given daily.

DIURETIC ALTERATIVE POWDER FOR GREASE. Powdered rosin and nitre of each 4 oz.; mix, and divide into eight doses.

FEVER POWDER FOR HORSES. Nitre half an oz. to 1 oz., camphire and emetic tartar of each 1 to 2 dr.; used after their bowels have been opened.—2. Nitre half an oz. to 1 oz., antimonial powder 2 dr., camphire 1 dr. to 2 dr.; mix.—3. Powdered rosin 3 dr., emetic 1 dr., nitre half an oz.; mix.

LAXATIVE ALTERATIVE POWDERS. Flowers of sulphur 6 oz., emetic tartar 6 to 8 dr., calomel 3 dr.; mix for six doses.

PURGING POWDER FOR PIGS. Jalap 1 dr., to which may be added scammony 10 or 12 gr., or calomel 10 gr.

GERMAN PASTE FOR BIRDS. Pea meal 2lb., sweet almonds blanched 1lb., fresh butter 3 oz.; beat all up together, add a little honey and cake saffron shred, pass it through a colander to granulate it. Some put in the yolks of 2 eggs, but this makes it too expensive, and too fattening for the birds: it will keep good six months: used for feeding nightingales, larks, and other insectivorous birds.

RAT POWDER. Rad. ranunculi bulbosi dried and powdered.

POWDER FOR DESTROYING MICE. Rad. helleb. nigri, sem. staphisagriæ ana 1 oz., oatmeal 2lb., ol. carui gtt. xxx.

FLY POWDER. Arsen. alb. 4 oz., white sugar 6lb., rose pink 1 oz.: put 3 vj in each paper.

FOR THE KITCHEN AND TABLE.

CURRIE POWDER. Coriander 18 oz., black pepper 2 oz., Cayenne pepper 1 oz., turmeric, cumin seed, of each 3 oz., fœnugr. seed 3iv.

2. Sem. coriandri 13 oz., pip. nigri 5 oz., pip. Cayenne 1 oz., sem. fœnugr., sem. cymini ana 3 oz., rad. curcumæ 6 oz.

3. Sem. coriandri 1lb., rad. curcumæ 8 oz., zz. 6 oz., sem. cumini, pip. Indic. ana 4 oz., pip. nigri 3 oz., cinnam., sem. cardam. min. ana 1 oz., tamarind. nigr. 2lb.

4. Sem. coriand., rad. curcumæ ana 4lb., zz., pimentæ, pip. Cayenne, capsici bacc. ana 1lb., sem. cardam. min. 4 oz., macis, caryoph. arom., cinnam. ana 1 oz.

5. Coriander seed, turmeric of each 3lb., black pepper, mustard, ginger, of each 1lb., lesser cardamoms 8 oz., Cayenne pepper, cummin seed, of each 4 oz.; powder and mix: used as a sauce.

Red pepper, Cayenne pepper, Piper Cayenne. Capsicums, salt, of each lb. j, grind together, and colour with bole; from the West Indies.

2. Capsicums dried 1lb., salt 4 oz.; pound or grind in a pepper mill.

3. English chilies 1lb., salt 4 oz.; 100 chilies will make about 2 oz. of Cayenne, the flavour of which is superior to that of capsicum, or the imported.

Reduced Cayenne pepper. English chilies, bury in flour, bake for two hours and a half, or till they are dry enough to powder, then cut them in small pieces, to each oz. add flour 1lb., water q. s. to make them into small biscuits, bake, powder the biscuit and sift it.

Prepared black pepper. Black pepper 1lb., ground and soaked in 3 pints of vinegar for some days, the vinegar strained off, and the pepper dried; milder than raw pepper.

Prepared Cayenne pepper. Cayenne pepper ground, soaked in vinegar, the vinegar strained off, and the pepper dried; milder than raw Cayenne pepper.

Pickling salt. Brown sugar, foreign bay salt, common salt, of each 2lb., saltpetre 8 oz.; mix: renders meat or butter salted with it very finely flavoured, and red.

Kidder's sweet spice. Cloves, mace, nutmegs, cinnamon, sugar, of each 1lb.; mix: used in pastry.

Kidder's savoury spice. Cloves, mace, nutmegs, pepper, salt, of each 1lb.; mix: used in cookery.

French sausage spice, Epices fines. Black pepper 5lb., cloves and nutmegs of each 1½lb., ginger 2½lb., anise seed and coriander seed of each three quarters of a lb.; powder them together: used by the foreign sausage makers.

Kitchen pepper. Ginger 1lb., cinnamon, black pepper, nutmegs, Jamaica pepper, of each 8 oz., cloves 3 ij, salt 6lb.; grind together.

Ragout spice. Salt 1lb., flour of mustard, ground black pepper, grated lemon peel, of each half a lb., allspice, ginger, grated nutmegs, of each a quarter of an oz., Cayenne pepper 2 oz.; mix, and powder fine.

English spice. The roots of cyperus longus, root of calamus aromaticus, leaves of sweet willow, myrica gale, or root of avens,

geum urbanum and g. rivale, ground together; for in all cases a mixture of several spices is more agreeable than any one used singly.

Powder of coriander. Sem. coriandri, nux vomica, quassia, ground together: used by the ale brewers.

Sharp whites. Wheaten flour ground with alum.

Stuff. Alum in small crystals lb. j, common salt 3lb., to mix with flour for baking.

Heading for beer. Alum, green vitriol, ana p. æq.

Mushroom powder. Mushrooms, blewits, champignons, or any other wholesome kind, half peck, 2 onions, cloves, and mace, of each a quarter of an oz., white pepper 1 oz.; expose to a gentle heat till the liquor the mushrooms yield be dried up, then dry on tins in a slow oven till they can be powdered or ground in a mill.—2. The squeezings left in making plain mushroom catchup, mix with dried flour, roll out, dry and powder.

Oyster powder, Preserved oysters. Oysters 3 doz., salt three quarters of an oz., pound, press through a hair sieve, add dried wheat flour suff. quant. to make a paste, about $7\frac{1}{2}$ oz., roll out to the thickness of half a crown, dry, pound, sift, put into bottles, and seal the corks: 3 av. drachms will make half a pint of sauce.

Cockle powder, Muscle powder. May be made the same way.

Anchovy powder. Pound the fish, rub through a sieve, make into a paste with dried flour, roll out thin, dry, and reduce to a fine powder.

Sprat powder. Head and gut the sprats, float them over with vinegar, add a little salt and allspice, bake for two hours, rub them through a hair sieve, and proceed as in making anchovy powder.

Flour of mustard, Durham mustard, Farina sinapis. The seeds of black mustard dried until they form a powder when bruised, then ground and sifted to separate the hulls or black skin of the seed, which does not form so fine a powder: yellow, and must not be confounded with powdered black mustard seed, sem. sinapis trita, which is very black coloured, and used to make the foreign mustard sauces. When flour of mustard is made up into mustard sauce, and taken in too large a dose, it stops the respiration, and draws tears from the eyes; the spasm is relieved by smelling.

Reduced flour of mustard. Flour of mustard, ground white mustard seed, salt, ana p. æq.

2. Flour of mustard 14lb., ground white mustard seed, turmeric, Cayenne pepper, and common salt, in various proportions: does not affect the breath.

Ginger beer powders. White sugar ʒj ʒij, zz. gr. v, natr. pp. gr. xxvj, in each blue paper; acid of tartar ʒjss, in each white paper: these quantities are for half a pint of water.

Spruce beer powders. White sugar ʒj ʒij, natr. pp. xxvj, ess. of spruce gr. x. in each blue paper; acid of tartar ʒ ss, in each white paper: for half a pint of water.

Portable lemonade. Acid of tartar 1 oz., sugar 6 oz., ess. limon. 10 drops; rub together, divide into 24 papers, for a tumbler of water each.

2. Concrete acid of lemons 1 oz., white sugar 4lb., ess. limon. ʒij.

Whey powder, Petit lait en poudre. Sugar of milk 2 oz., white sugar 8 oz., gum Arabic half an oz.: dose an oz., in 2 pints of water.

PERFUMERY AND COSMETICS.

Rouge, Rouge d'Espagne. Wash safflower until the water comes off colourless, dry the washed petals, and soak them in subcarb. of soda water; pour the yellow liquor upon fine white carded cotton, add lemon juice, citric acid, or acetic acid, the cotton takes a yellowish red dye; wash the cotton to take away the yellow tinge, then soak the cotton in fresh subcarbonate of soda water, decant the liquid upon some French chalk, levigated very fine, again add the acid to throw down the pure red matter, and grind the coloured chalk with a few drops of olive oil.

2. Separate the colour from the cotton by the acids; and then grind the sediment with French chalk and oil.

Pure rouge, Vert rouge d'Athenes. Separate the colour from the cotton by the acids, and dry the sediment, which becomes of a copper bronze colour when dry, but reassumes its red colour when wetted.

Pink saucers. Safflower, previously washed in water until it no longer gives out any colour, and dried, 8 oz, subcarb. of soda 2 oz, water 2 gall.; infuse, strain, add French chalk 4lb., scraped fine with Dutch rushes, and precipitate the colour upon it with citric acid or tartaric acid.

Perfumed powder for scent boxes. Sem. coriandri, rad. irid. Flor., fol. rosar., rad. calam. arom. ana 4 oz, fl. lavand. 8 oz., moschi ʒj, lign. rhodii ʒj.

2. Sem. coriandri, rad. irid. Flor., fol. rosar. rubr. ana 1 oz., macis, caryoph. arom. ana ʒj, flor. lavand. 1 oz. ʒiv, rad. calam. arom. 1 oz., moschi gr. iij, if agreeable.

Spec. odorifera, for wash balls. Amyli 20 oz., rad. irid. Flor. 12 oz., ol. rosm., ol. lavand. Angl. ana ʒj, sem. bamiæ moschatæ ʒ oz.

Pearl powder. Magistery of bismuth, French chalk scraped fine by Dutch rushes, ana p. æq. ; cosmetic.

Plain hair powder. Starch powdered, and sifted very fine.

Poudre de roses communes. Starch powder 25lb., rose leaves 1lb. ; stir them with your hand every four hours, to prevent heating : the next day sift them out, and put in fresh leaves ; repeat this three times ; the box should be open all the time.

Poudre de roses musquées. Starch powder 3lb., musk rose leaves 1lb. ; they do not require stirring as they do not heat : the next day sift, and put in fresh for three times ; the box should be close.

Poudre de jonquille. As poudre de roses musquées, but with jonquilles for roses.

Poudre de fleurs d'oranges. Starch powder 25lb., orange flowers 1lb. ; stir up twice a day : repeat this three times, keeping the chest close during the making and after.

Poudre de jasmine. Starch powder 20lb., jasmine flowers no. 10,000, laid in beds together for twenty-four hours ; they do not heat : repeat this for three or four days.

Poudre de violette. Orrice, powdered and sifted.

Violet powder. Starch powder 28lb., pulv. iridis 15 oz., ess. Bergam. ʒiij, ol. rhod. ver. gtt. xxv.

Poudre blanche melangée. Add 2 oz. of parfum à parfumer les autres poudres to 1lb. of poudre de jasmin, or de fleurs d'oranges.

Poudre de chipre. Wash oak moss for three days in running water, dry it in the sun very well, otherwise it will not powder fine ; then perfume it once or twice with jasmine or musk rose flowers, which will make it take other scents better.

Poudre de chipre de Montpellier. Poudre de chipre perfumed with flowers as before, 2lb., civette gr. xvij, musk ʒss, ground with a little sugar.

Poudre fine à la Mareschalle. Oak moss in powder 2lb., plain powder 1lb., cloves 1 oz., calamus arom. in powd. 1 oz., cyperus in powd. 2 oz., rotten wood in powder 2 oz. ; mix all well together. Rotten oak wood should be used, because it is red and gives a fine colour.

Mareschale powder. Pulv. caryoph. arom. 10½ oz., starch powd. 28lb.

Poudre de frangipane. Poudre de fleurs d'orange 6lb., poudre de chipre 6lb. ; pour 1 oz. essence of amber into a very hot mortar, cover it with powder, and beat well together ; mix this with the whole by sifting, then put half a drachm of civette and a little

sugar into the mortar, and proceed as before. The mortar and pestle should be sufficiently hot to make spittle hiss. This powder is ash grey, which agrees well with every coloured hair.

Poudre de frangipane de musquée. Instead of 3ss civette put in only 18 grains, and add 3ss of musk.

Poudre de frangipane parfumée. Mix poudre de chipre with as much plain powder, perfume it with flowers, and then add ambergris and civette, of each q. p.

Poudre d'ambrette. Poudre de jasmin 5lb., poudre de roses musquées 5lb.; mix: put some in a sieve, and add 2 drachms ess. of ambergris; mix, sift, break the clots, mix them with more of the powder, and sift the whole several times to mix them well.

Musk powder. Hair powder 28lb., musk a quarter of an oz.

Species for scenting hair powder. Pulv. irid. Flor. 1lb., ess. berg. 2 oz., ol. neroli ʒj, moschi ʒj.

Parfum pour parfumer les autres poudres. Poudre d'ambrette 12lb.; grind 12 drachms of civette with a little sugar, add to it some of the poudre d'ambrette on the sieve, and sift till you have mixed it with the powder, then get a drachm of musk into the powder by the same means.

Pâte parfumé pour chapelets et medailles. Beat up poudre fine à la Mareschalle with muc. of tragac. made with eau de millefleurs, then mould it, rubbing the moulds with an essence or huile antique of some flower: this pâte is coffee coloured.—2. Parfum pour parfumer les autres poudres q. p. beat up with muc. of tragacanth. made with orange flower water, adding a thread of ess. of ambergris: this pâte is white, but may be coloured red by vermilion, or yellow by fine yellow ochre.—3. Poudre de chipre parfumée, and poudre de frangipane, each an equal quantity beat up with muc. tragac. made with eau de millefleurs: this is grey.—4. Poudre fine à la Mareschalle and cake of eau d'ange of each an equal quantity beat up with muc. of tragac. made with eau de millefleurs.—5. Poudre de chipre parfumée, poudre de frangipane, parfum à parfumer les autres poudres, of each an equal quantity, beat up with mucil. tragac. made with orange flower water and a thread of ess. of ambergris: this pâte is ash grey.

French almond powder, Pulvis manualis. Amygd. amar. blanché 48 oz., far. oryzæ 26 oz., pul. rad. Flor., cretæ ppæ. ana 2 oz., far. fabarum 12 oz., sal. tartari, benz., sperm. ceti, ana 1 oz., ol. lavand., ol. caryoph. ana guttæ xxx, ol. jasmini per infus. Oj: mix.—2. Amygd. amar. blanché ʒxij, benz., irid. Floren., far. oryzæ, ana ʒj, sal tartari ʒij, ol. lavand., ol. rhodii, ana gtt. xx; mix.

Rose pearls, Rose beads. Beat the petals of the red rose in an

iron mortar, for some hours, until they form a black paste, which is to be rolled into beads and dried. They are very hard, susceptible of a fine polish, and retain all the fragrance of the flower.

Sweet balls, Pomambra. Rad. iridis Flor. \mathfrak{z} ss, cinnam. \mathfrak{z} ss, caryoph. arom., lign. rhodii, flor. lavand. ana \mathfrak{z} ij, ambr. gris., mosch. ana gr. iij, muc. g. tragac. made with rose water q. s. : some cover the ball with spirit varnish, but this keeps in the scent; worn in the pocket as a perfume.—2. Plaster of Paris \mathfrak{z} ij, lign. santali. citr., rad. cyperi rot., caryoph. arom. ana \mathfrak{z} ij, benz., styr. calam. ana \mathfrak{z} ss, ebor. usti \mathfrak{z} ss, mosch., zibethi, ana \mathfrak{z} ss, bals. Per. \mathfrak{z} ij, ol. cinnam. gtt. v, ol. lign. rhod. gtt. xv, ess. de jasmine \mathfrak{z} j, ess. neroli \mathfrak{z} j, muc. g. tragac. made with rose water q. s. : make into beads, and pierce them while yet soft.

Tooth powder, Pulvis dentifricus. Rad. irid. Flor. 4 oz., oss. sepia 2 oz., crem. tart. 1 oz., ol. caryoph. gtt. xvj, lake 16 drops.—2. Catechu 1 oz., cort. Peruv. flav., crem. tart. cassia, bol. Armen. ana \mathfrak{z} iv, sang. dracon., myrrhæ, ana \mathfrak{z} ij.—3. Rose pink 20 oz., bol. Armen., oss. sepia, crem. tart. ana 8 oz., myrrh 4 oz., rad. irid. Flor. 2 oz., ess. Bergam. \mathfrak{z} ss.—4. Oss. sepia 4 oz., crem. tart., rad. irid. Flor. ana 2 oz., alum. usti, rose pink, ana 1 oz.—5. Magnesia, rad. irid. Flor., rose pink, cretæ ppæ. ana 2 oz., natr. ppi. \mathfrak{z} vj, ol. rhodii gtt. ij.

Lardner's prepared charcoal. Chalk coloured grey with charcoal; used as a tooth powder.

Green tooth powder. Fol. salvia sicc., crustæ panis tostæ, salis comm. ana \mathfrak{z} j, nuc. mosch., caryoph. arom. ana \mathfrak{z} j.

Grosvenor's tooth powder. Rose pink 3lb., pulv. irid. Flor. half a lb., test. ostreor. 3lb., ol. rhodii gtt. xxv.

Asiatic dentifrice. Coral. rub. ppr. 8lb. 4 oz., Venetian red 12 oz. 3 dr., ochre and pumice stone of each 1lb. 2 oz. 6 dr., moschi Chinæ \mathfrak{z} ss; mix.

Hemet's dentifrice. Oss. sep. lb. \mathfrak{z} ss, crem. tart. 4 oz., irid. Fl. 2 oz.

Ruspini's dentifrice. Oss. sep. 8 oz., alum rup. 1 oz., crem. tart. 2 oz., irid. Fl. 1 oz., c. c. usti 2 oz., ol. rhodii gtt. 6.

Opiate en poudre. Brick 8 oz., China ware 4 oz., red coral 1 oz.; powder fine, and add cinnamon and cloves, of each 1 draehm.

Depilatory. Quicklime 1 oz., orpiment 3 dr., orrice 2 dr., salt-petre 1 dr., sulphur 1 dr., soap lees half a pint; evaporate to a proper consistence.

Rosate powder. Lime 12 oz., starch 10 oz., orpiment 1 oz.; mix. Both are used to take off hair.

FUMIGATING PASTILLES.

In compounding fumigating pastilles, only those ingredients should be used that yield a sweet scent upon being burned, as ambergris, cascarilla, copal of rhus copallinum, calamus aromaticus, yellow sanders, wood aloes, gum ivy, star anise seed: musk, so commonly employed, is worse than useless, as it yields a very disagreeable smell when burned, as does also civette.—Benzoin ʒij, cascarillæ ʒj, myrrh. ʒss, ol. nuc. mosch., ol. caryoph. ana gtt. xv, sal. nitri ʒj, carb. lign. ʒjss, muc. g. trag. q. s.

2. Benz., oliban., styracis, gum thuris, mastic. ana 1 oz., carb. lign. 1lb. 8 oz., gum. tragac. ʒiiij, water q. s.; camphire may be added if for a sick chamber.—3. Benz. ʒij, mastich., oliban., ana ʒss, cascarillæ, ol. caryoph., bals Peru. ana ʒj, carb. lign. 2 oz. ʒij, ol. lavand. gtt. x, camph. ʒij, moschi gr. x, gum. tragac. ʒiv, —4. Benz. 8 oz., styr. calam. ʒxij, labdani, olibani, mastiches, caryoph. arom. ana ʒjss, carb. lign. 2lb. 4 oz., muc. g. trag. q. s. —5. Styracis, benz. ana 4 oz., santal. citr. 1 oz., carb. lign. 24 oz., labdani ʒij, set on fire, and burnt to correct bad smells.—6. Pulv. sandal. 1 oz., pulv. cascar. 1 oz., pulv. caryoph. 1 oz., gum thuris 1 oz., olibani ʒiv, g. benzoin ʒiv, p. carbon. ʒiiijss, styr. colat. ʒjss, moschi gr. v, camph. ʒij, fl. benzoin ʒj, ess. limon. gtt. xx, ess. bergam. gtt. xv, ol. lavand. Angl. gtt. xv.—7. The cake of eau d'ange made without citrons, beat it up with muc. of tragac. made with orange flower water q. s.—8. Benz. 1lb., storax half a lb., cinnam. half an oz., cloves ʒij, Provins roses 2 oz., calamus a stick; beat up with muc. of tragacanth. made with rose and orange flower water.

Pastilles de roses à bruler. Cake of eau d'ange by decoction (taking out the citrons) 1lb., rose petals fresh gathered a handful, mucilage of g. tragac. made with rose water q. s.; beat all together.

Pastilles communes à bruler. Bej. comm. 1lb., cloves half an oz., cinnam. 2 dr., calamus a stick, mucilage of tragac. q. s.

Pastilles de Portugal. Cake of eau d'ange beat up with muc. of tragac. made with orange flower water; then dissolve ambr. gris. gr. xx, in eau de mille fleurs ʒiiij, and add this to the former.

SNUFF.

While powdering the tobacco sift often, that the tobacco may not be beaten to too fine a powder; soak in three or four waters and strain, the last time with strong expression, then dry in the sun: moisten the snuff again with rose water, orange flower water,

or eau d'ange, which are the only waters fit for snuff; then dry, and repeat this perfuming again.—It being necessary that the dried leaves of tobacco should undergo some kind of fermentation to render them agreeable to smokers and snuff-takers, the best kinds are moistened with treacle and water during the process of drying. Tonca beans are put into snuff-boxes to scent the snuff: the leaves of *Orchis fusca* and those of several other species of orchides that have the scent of the Tonca bean, are used to scent snuff. French snuff is scented with the root of *calamus aromaticus*.

Tabac de cedrat. Is perfumed by dropping the ess. into snuff.—*T. de Bergamotte.* The same.—*T. de neroli.* The same. Scented snuff must be kept in close vessels.

T. parfumé aux fleurs. Put orange flowers, jasmine, common or musk roses, or tuberoses, with the snuff, for a day and a night, and sift them out; repeat this as often as necessary. Snuff does not heat with the flowers.—2. Lay paper, pricked with a large pin, between the flowers and snuff: this is better.

T. musqué. Snuff scented to your pleasure 1lb., musk 20 gr., sugar q. s. to grind the musk; mix.

T. en odeur de Malthe. Snuff scented with orange flowers 1lb., ambergr. 20 gr., civette 10 gr., sugar q. s.

T. à la pointe d'Espagne. Scented snuff aux fleurs 1lb., musk 20 gr., civette 6 gr., sugar q. s.

T. ambre. Scented snuff aux fleurs 1lb., ambergr. 24 gr.

T. en odeur de Rome. Snuff scented aux fleurs, ambergr. 20 gr., musk 6 gr., civette 5 gr., sugar q. s.

Yellow snuff. Yellow ochre the size of an egg, add chalk to lower the colour, grind with 4 dr. of oil of almonds till fine, then add water by degrees, and two spoonful of mucil. of tragacant. till you have about a quart; mix this with purified snuff q. v. and dry it; then grind some gum tragac. with some scented water, and moisten your snuff with it, and when dry, with a very fine sieve sift out the colour that does not adhere to the snuff.

Red snuff. Use red ochre.

Tabac de Pongibou. Yellow snuff scented with orange flowers 1lb., civette 12 gr., sugar q. s. to grind the civette to a powder, ess. of orange flowers 4 dr. Snuff will not bear more than this quantity of essence without being greasy; other essences may be used, the snuff being previously scented with the same odour.

T. fin, façon d'Espagne. Red snuff perfumed with flowers.

USED IN THE ARTS.

Venetian ceruss, Cerussa Veneta, Plumbum album. Flake white, cawk, ana p. æq.

Hamburgh white lead. Flake white 1 cwt., cawk 2 cwt.,

Best Dutch white lead. Flake white 1 cwt., cawk 3 cwt.

Common Dutch white lead. Flake white 1 cwt., cawk 7 cwt.

English white lead. Flake white reduced in price by chalk, inferior to the preceding.

Ink powder. Green vitriol 1lb., galls 2lb., gum. Arab. 8 oz. : 2 oz. make a pint of ink.—2. Vitriol. calc. ʒvj, pulv. g. Arab. ʒij, indigo ʒss, gallæ, sacch. albi, ana ʒiij; mix.

Grana sylvestria. A dry powder, with many small fragments of something that has been made into a dry uniform cake; it has only 1-6th of the colouring power of fine cochineal, and is in general about 1-8th of its price; it is probably composed of the white downy substance left by the wild cocci upon the plants on which they feed, along with fragments and dust of the insects themselves, with perhaps some vegetable substance. Cochineal itself seems formerly to have been made into a paste and dried.

Indian ink, Indicum, Atramentum Indicum. The best kind is made of real lamp black, procured by burning oil under shades, mixed up with glue made of an ass's skin, to which is added a little musk; astringent ʒj—ij, dissolved in water or wine, in hemorrhages, also stomachic.—2. Russian lamp black made up with glue.—3. Honey 1lb., yelk of eggs no. 2, gum. Arab. half an oz., lamp black q. s.; beat into a mass.—4. Horse beans burnt perfectly black, ground fine, and made up into sticks with gum water; is very inferior to the others.—5. Seed lac ʒj ʒij, borax ʒj, aquæ ʒiij; lamp black q. s. to form into cakes.

Lump archel, Tournesol en pains, Lacca cærulea, Lacmus tinctorius. Prepared from Canary archel, ground archel, and some other lichens, by reducing them to powder, adding half as much pearl ashes, and moistening the whole with urine or bone spirit; a small proportion of lime is then added, and the archel cut into cubes and dried.

Litmus, Lacmus tinctorius albo-cæruleus. Like the former, with a large proportion of whiting at the end, which renders it light blue; some add infusion of Brasil wood.

Cudbear. Canary archel soaked with urine or bone spirit, and ground to powder. All are used in dyeing violet colours, which, however, do not stand well; also as very delicate tests for acids

and alkalies, the infusion or tincture being reddened by acids, and rendered green by alkalies.

Florey black, Florée d'Inde. The dried scum of the dyer's woad bath, which is prepared by diluting woad with water, adding some slaked lime, and keeping the liquor warm when it ferments and throws up a blue froth. It is remarkable, that although the fermented bath is red, cloth dipped in it comes out of a green colour, which turns, as it dries, to a blue.

Florence lake, Lacca Florentina. Pearl ashes 1 oz. ziv , water q. s., dissolve; alum. Rom. 2 oz. ziv , water q. s., dissolve: filter both solutions, and add the first to the alum solution while warm, strain, mix the sediment upon the strainer with the first coarse residuum obtained in boiling cochineal with alum for making carmine, and dry it. This lake is an excellent glazing colour ground with linseed oil, and used with drying oil; having little body it may be mixed with Indian red.

Drop lake, Lacca in globulis. Make a magistery of alum, as in making Florence lake; boil Brasil dust 1 oz. ziv , in water 3 pints; strain, add the magistery or sediment of alum to the strained liquor, stir it well, let it settle, and dry the sediment in small lumps.

Fine madder lake, Lacca columbina. Dutch grappe madder, (that is, madder root ground between two millstones a small distance apart, as in grinding pearl or French barley, so that only the bark, which contains the most colour, is reduced to powder, and the central woody part of the root left) 2 oz., tie it up in a cloth, beat it in a pint of water in a stone mortar, repeat with fresh water, in general 5 pints will take out all the colour, boil, add alum 1 oz., dissolved in a pint of water, then add oil of tartar 1 oz. and a half, wash the sediment, and dry; produces half an oz.

Lac lake, Lac colour, East Indian cochineal. Fresh stick lac, boil in water impregnated with subcarbonate of soda, and add a solution of alum, which throws down the lake equal to 1-5th of the lac. It requires about four times the quantity to produce a dye equal to cochineal.

Lac dye. Preparation unknown, softens in water, and contains less colouring matter than lac lake.

Orange lake. Best Spanish annatto 4 oz., pearl ashes 1 lb., boil in 1 gall. of water for half an hour, strain, dissolve, alum 1 lb. and a half in water 1 gallon and a half, strain, and add the coloured liquid as long as any sediment falls, strain, and dry the sediment.

Red and purple lakes may be prepared from red dulse, cochineal, and kermes berries, and yellow lake from turmeric, by boiling them in water, or steeping them in spirit of wine, straining, mixing the

liquor in white precipitate of lead, oxide of tin, or Baume's alum white, to furnish a body to the colour, and drying.

Iris green. Juice of the petals of blue flag, iris nostras, ground with quicklime.

Cork, Corker. Lichen omphalodes made up into balls; used to dye wool.

Weld yellow. Fine whiting 4lb., water 4 pints, boil together into a smooth paste, add gradually alum half an oz. in fine powder. Boil weld in water for a quarter of an hour, strain, and add the liquor to the pap of whiting and alum until the desired shade of colour is obtained; pour into earthen pans, and dry on chalk: used by the paper-hanging makers.

Brown pink. French berries 1lb., fustic in chips half a lb., pearl ashes 1lb., water $1\frac{1}{2}$ gall., boil in a tin or pewter caldron, strain through flannel while hot: dissolve alum $1\frac{1}{2}$ lb., in water $2\frac{1}{2}$ gall., pour it into the strained tincture as long as a sediment falls, wash the sediment, drain on paper or cloth and dry.—2. French berries 2lb., water 2 gallons, boil for two hours, strain through flannel; add levigated soft part of the cuttle fish bone $1\frac{1}{2}$ lb., evaporate in a water bath to a stiff consistence, grind on a stone, cut into cakes and dry on a board. Is a fine glazing colour ground with linseed oil and used with drying oil.

Dutch pink. Prepared from French berries in the same manner as brown pink, but turmeric is used instead of fustick, and whiting, starch, or white lead to give the body. It should be of a fine golden yellow and very bright.

Schutt gelb. Prepared from birch leaves.

English pink, Light pink. Prepared like Dutch pink, but with more whiting.

Rose pink. Whiting coloured with a decoction of Brasil wood and pearl ashes; very fine colour, but does not stand.

Stone blue, Fig blue, Crown blue, Mecklenberg blue, Queen's blue, Indicum vulgare. Indigo reduced in price by adding starch.—2. Indigo and whiting.

Sap green. Juice of buckthorn berries, black alder, or of evergreen privet, 12 pints, lime water 8 pints, gum Arabic 6 oz.; evaporate till quite thick, then pour into bladders.

English verdigrise. Blue vitriol 24lb., white vitriol 16lb., sugar of lead 12lb., alum 2lb.; all coarsely powdered, put in a pot over the fire, and stirred until they are united into a mass.

Cake water colours. Extracts of coloured flowers, or the usual colours made up with gum water and a little isinglass jelly, and put into greased moulds.

Crayons. Spermaceti 3 oz., boiling water 1 pint, add bone ashes finely ground 1lb., colouring matter, as ochre, &c. q. p. roll out the paste, and when half dry cut it in pipes.—2. Pipeclay, coloured with ochre, &c. q. p. make it a paste with ale wort.

Parolic cement, Universal cement. Curdle skim milk, press the whey out of it, break the curd into small pieces, and dry it until it becomes fit to grind, in a coffee mill, to a coarse powder; 100 oz. of fresh curd by drying is reduced to about 30. Take perfectly dried curd 10 oz., strong quicklime in powder 1 oz., camphire also powdered ʒij; mix, and fill wide-mouth ounce phials therewith: to be kept carefully stopped. When used, mix with a little water, and apply it quickly.

Clothes powder. Pipeclay 1lb. 8 oz., pip. alb., amyli, ana 1 oz., rad. irid. Flor. 1 oz. ʒiv, S. V. R. 2 oz.

Clothes ball. Pipeclay 2lb., Fullers' earth, whiting, ana 4 oz., pip. alb. 2 oz., fel bovis 4 oz.; used for cleaning clothes.

Breeches ball. Bath brick 1lb., pipeclay 2lb., pumice stone powder 4 oz., ox gall 6 oz.; they may be coloured with rose pink, yellow ochre, umber, Irish slate, &c., to any desired shade.

Essential salt of lemons. Crem. tart. 4 oz., sal. acetosellæ 8 oz., used to take iron moulds out of linen.

Silvery boiling powder. White argol, common salt, alum, of each 1lb.: plate boiled in water with a little of this powder acquires a brilliant whiteness.

Plate powder. Hydrarg. c. cretæ 1 oz., cretæ pp. 4 oz.—2. Polisher's putty, corn. cerv. ust. ana 8 oz., whiting 1lb.

Silvering powder. Silver dust gr. xv—xx, cream of tartar, common salt, ana ʒij, alum ʒss.—2. Silver dust ʒss, common salt, sal ammoniac, ana ʒij, corros. sublimate ʒj; make into a paste with water: used to silver copper, which is to be cleaned by boiling with argol and alum, then rub it with either of these powders, and polish with soft leather.

XII. OILY OR GREASY COMPOUNDS.

COMPOUND OILS.

FOR MEDICAL USE.

OIL OF ROSES BY INFUSION, *Oleum rosaceum*, *Ol. rosæ*. Rose petals, not fully blown, picked, heeled, and beat to a pulp, 4 oz., olive oil 1 pint; expose to the sun for a week, press out the oil, repeat the insolation with fresh roses twice more, then leave the roses in the oil for use.

OIL OF CAMOMILE BY INFUSION, *Oleum chamæmelinum*. From the flowers, as that of roses; used in sprains.

OIL OF ST. JOHN'S WORT, *Oleum hyperici*, *Bals. hyp. simp.* Flor. hyper. ζ iv, ol. olivæ lb. ij; infuse till the oil is well coloured.

B. hyp. fact. Ol. viride, rendered paler by adding rape oil.—2. Ol. oliv. comm. 1 gall., rad. anchusæ 8 oz; vulnerary.

OIL OF WHITE LILIES, *Oleum liliorum*. As oil of roses; emollient: Ol. oliv. is usually sold for it.

OIL OF EARTH WORMS, *Oleum lumbricorum*. Lumb. terr. lb. ss, ol. oliv. lb. ij, vini albi lb. ss; boil till the wine is consumed, then press.

OL. L. FACT. Ol. olivæ com., ol. lini, ana lb. j.

OIL OF ELDER FLOWERS, *Oleum sambucinum*. Fl. sambuci lb. j, ol. oliv. lb. ij; boil till crisp, press out the oil, and let it settle: emollient.

GREEN ELDER OIL, *Ol. sambuci viride*. Elder leaves, fresh, lb. j, olive oil 2 pints, boil till the leaves are crisp, press out the oil, and put it on the fire again until it acquires a fine green colour.

EXETER OIL, *Ol. Excestrense*. Ol. viride lb. xvj; euphorb. - sinapeos, - castor, pyrethri, of each ζ j.

OIL OF MUCILAGES, *Ol. e mucilagibus*. Rad. althææ rec. lb. ss, sem. lini, sem. fœni Græci, ana ζ ijj, aquæ lb. ij; boil for half an hour, add ol. olivæ lb. iv, continue boiling till the water is nearly consumed, pour off the oil.—2. Rad. althææ rec. 4lb., sem. fœnugr., sem. lini, ana 2lb., a mixture of common olive oil, sperm oil, and seal oil, in equal parts, 4 galls.—3. Sem. fœnugr. 8 oz., ol. lini 2 pints; infuse for a week, strain: very emollient.

GREEN OIL, *Ol. viride.* Fol. lauri, fol. rutæ, fol. majoran., fol. absinth. mar., fol. chamæmeli, all fresh, ana ℥ij, ol. oliv. lb. ij; boil till crisp, press out the oil and let it settle; emollient.

OIL OF SCORPIONS, *Ol. scorpionum.* Live scorpions, no. 30, ol. amygd. lb. ij; expose to the sun for forty days: centipedes are usually substituted for scorpions, as being more easily procurable; externally emollient, internally diaphoretic, occasioning a prickly heat on the skin.

CAMPHOBATED OIL, *Linimentum camphoræ, Ol. camphoratum.* Camphoræ ℥ss, ol. olivar. ℥ij; dissolve: anodyne, discutient; the only compound oil in the present pharmacopœia, although all the preceding are in esteem with private practitioners.

BALSAM OF SULPHUR, *Balsamum sulphuris simplex, Ol. sulphuratum, P. L.* Fl. sulph. ℥iv, ol. olivæ ℥xvj.

OL. SULPHURATUM, P. E. Fl. sulph. ℥ij, ol. olivæ ℥xvj; dissolve.—2. Fl. sulph. 3lb., ol. lini 4 galls.; dissolve by boiling.

BALSAMUM SULPHURIS BARBADENSE. *Petroleum sulphuratum.* Petrol. Bbd. ℥xvj, fl. sulph. ℥ij; detergent to ulcers.

BALS. SULPH. ANISATUM. Fl. sulph. 1 oz., ol. anisi 4 oz.; dissolve.—2. Bals. sulph. simp. scented with ol. anisi; pectoral, gtt. x to xxx.

COMMON DUTCH DROPS, *Bals. sulph. terebinthinatum.* Fl. sulph. 4 oz., ol. terebith. 8 oz.; dissolve.—2. Bals. sulph. simp. 4 oz., ol. tereb. 1 pint; dissolve: diuretic, detergent.

GUESTONIAN EMBROCATION FOR RHEUMATISM. Ol. oliv., ol. terebinth. ana ℥jss, spir. vitrioli ℥ij.

HUILE ACOSTIQUE. Olive oil lb. ss, bullocks' garlick, bay leaves of each 4 dr.; boil fifteen minutes, strain: for earach, a little on cotton to be put into the ear.

TAYLOR'S REMEDY FOR DEAFNESS. Ol. amygd. lb. j, rad. allii cont. ℥ij, rad. alcannæ ℥ss; infuse and strain.

LYNCH'S EMBROCATION. Ol. olivæ scented with essential oils, and coloured with alkanet root.

WHITEHEAD'S ESSENCE OF MUSTARD. Ol. terebinth., camph., spir. rosmarini, to which is added flour of mustard.

ROCHE'S EMBROCATION FOR THE HOOPING COUGH. Ol. olivæ ℥xvj, ol. succ. ℥vij, ol. caryoph. q. p. to scent it strongly.

BALSAMUM SATURNI. Sacch. Saturni 8 oz., ol. terebinth. q. s.; dissolve, and pour off.

MIXED OILS FOR SAL VOLATILE DROPS, *Olea mixta.* Ess. berg., ess. limon. ana ℥j, ol. lavand. exot., ol. piment. ana ℥ss.

OLEUM ANISI REDUCTUM. Ol. anisi 1lb., almond oil 8 oz.,

sperm. ceti 1 oz., to make it candy in winter.—2. Ol. anisi 8lb., ol. olivæ opt. 1lb.

OL. CARYOPHYLLOBUM REDUCTUM. Ol. caryoph., ol. ricini ana q. p.

BALSAMUM PERUVIANUM REDUCTUM. Bals. Peru. 3lb., benz. 1lb., S. V. R. q. s. to give it a proper consistence.

BALS. PERUV. FACTITIUM. Bals. Tolu 6lb., gum. benz. 14lb., S. V. R. 2 gall.

BUTYRUM CERÆ FACTITIUM. Sperm. ceti, ol. amygd., ol. lateritii, ana lb. j; mix.

BALSAMUM COPAIBÆ REDUCTUM. Bals. Copaib. 6lb., pale rape oil 2lb., resin. fl. 1lb.—2. Res. flav. 7lb. 8 oz., bals Copaibæ 48lb., resin 2lb., rape oil 14lb.—3. Copaib. 12lb., resin 4lb., Genoa oil a gallon.

SOLUTION OF COPAIBA, *Supposed to be Frank's solution by Battley.* Take 12 oz. of balsam of copaiba, and six of calcined magnesia, rub together, add a pint of proof spirit, filter, and then half an ounce of spirit of nitrous ether.

COPAIBA FACTITIA. Nut oil 7½lb., res. fl. 2½lb., ol. junip. 2 oz., Bals. Canad. 20 oz., ol. sabinæ, ol. aurant. ana 1 oz.—2. Bals. Canad. 8lb., resin fl. 2lb., ol. lini 4lb., tereb. Ven. 2lb.

OL. SUCCINI REDUCTUM. Ol. succin. lb. j, petrol. Bbd. lb. ij.

OL. RICINI REDUCTUM. Ol. ricini 8lb., ol. amygd. 2lb.

BALSAMUM TEREBINTHINÆ VULGARE. Res. nigræ, ol. tereb. ana 1lb.

BALS. GILEADENSE FACTITIUM. Res. fl. 10lb., melt, and add tinct. benz. 2lb.; evaporate to a proper consistence, add ess. limon. 3lb.; ol. roris. 2lb., ol. carui 2lb.

OL. LATERITIUM FACTITIUM. Ol. lini 1lb., ol. tereb. half a lb., ol. corn. cerv. 1 oz., petr. Bbd. 1 oz.

OL. MENTHÆ PIPERITIS REDUCTUM. Ol. menth. pip. 3lb., S. V. R. 1lb.

OL. ORIGANI REDUCTUM. Ol. origani 7lb., ol. terebin. 2lb., petrol. Bbd. q. s. to colour it.

COMMON OIL OF PETRE, *British oil, Ol. petræ vulgare.* Ol. tereb. 8 oz., petrol. Bbd. 4 oz., ol. rorism. ʒiv.—2. Ol. tereb. 5lb., asphalt. 12 oz., ol. lateritii 8 oz.—3. Ol. tereb. 5lb., ol. laterit. ver. 8 oz.

VETERINARY MEDICINES.

Oil for quitters. Aqua fortis ʒj, S. V. R., ol. tereb., ana ʒijj, hydr. præc. rubr. ʒij.

Embrocation for strains. Soft soap 1 oz., spir. of wine 4 oz., oil of rosemary and camphire of each 2 dr. ; mix.—2. Soft soap, elder flower ointment, spir. of wine, and oil of turpentine, of each 4 oz. ; mix.

Liquid blister. Span. flies 1 oz., boiling water half a pint ; soak for a day and night, add spir. of wine 4 oz., corrosive sublimate 1 dr., previously dissolved in 3 or 4 dr. of spirit of salt : may be either strained or used as it is.—2. Spir. of wine and liquid ammonia of each 2 oz., oil of turp., of origanum, or of rosemary, either of them 1 oz., Spanish flies powd. 6 dr. to 1 oz. ; mix.—3. Blistering plaister of the College 2 oz., rub it down with half an oz. to an oz. of oil of turp.—4. Sweet oil 3 oz., oil of turpentine 1 oz. powdered cantharides half an oz. ; mix.

Ointment for spavins. Euphorb. 1 oz., corros. subl. ʒj, arsenic. alb. ʒij, ol. organ. 1 oz., ol. lauri 4 oz.

Liniment for thrushes and canker. Tar 4 oz. ; melt and add spirit of salt 6 dr., verdigris 4 dr. ; mix.

Oil for worms in dogs. Oil of turp. 4 dr., castor oil 1 oz. ; mix for a dose : in strong dogs the oil of turp. may be given alone first, and three or four hours afterwards the castor oil.

Oil of spike. Ol. tereb. coloured with rad. anchusæ q. s.—2. Ol. tereb. 6 pints, petrol. Bbd. 4 oz., rad. anch. 2 oz. : used by farriers as a liniment.

Mixed oils, Nine oils, Oleum ex omnibus. Train oil 23lb., ol. terebinth. 6lb., ol. lateritii, ol. succini, ana 1lb., spir. vin. camph. 2lb., petrol. Bbd. 7lb., ol. vitrioli 2 oz.

The oils. Ol. vitrioli, ol. terebinth., ol. olivæ comm., ana p. æq.

Newmarket oil. Ol. lini, ol. terebinth., ol. hyperici, ana 3lb., ol. vitrioli 1 oz. ; used in sprains, as also in lumbago and rheumatism.

Lord Stamford's mixed oils. Ol. origani 6 oz., ol. terebinth. 1lb. 8 oz., S. V. R. 1lb. 2 oz., ol. chamæm. or virid. 6lb., gum camphor. 3 oz.

Taylor's mixed oils. Ol. absinthii 2lb., spir. vitriol. dulc. 3lb., ol. origani veri 1lb.

Radley's mixed oils. Petrol. B. B. 8 oz., ol. lini, ol. terebinth., of each 4 pints, ol. vitrioli 4 oz. ; add, when cold, ol. origani 1 oz.

Marshall's mixed oils. Ol. lini, ol. olivæ, ana lb. j, ol. virid., ol. tereb., ana lb. ss, ol. vitrioli ʒjss. M.

Black oil. Ol. tereb. 4lb., ol. vitrioli 8 oz., ol. rapæ 1 gall., ol. Brit. 4 oz.

Darby's oil. Ol. succini, bals. sulph., petrol. Barb. ana p. æq.
Mixture for bugs. Corros. sublimate ʒij, S. V. R. 8 oz.; rub together, add ol. terebinth. 8 oz.

PERFUMERY AND COSMETICS.

Huile antique à la rose.—*H. ant. à la tuberoise.*—*H. ant. à la fleur d'orange.*—*H. ant. au jasmin.* Oil of ben nuts, scented with the essences of the different flowers, gtt. xxx to lb. j.—2. Olive oil scented the same; keeps the hair moist.—3. Mix the flowers with ground blanched bitter almonds, and then press for the oil; dries the hair.

H. ant. à la violette. Oil of ben, olives, or almonds, scented with orrice, in the same manner as in making essence de jasmin, and then pressed out of the wool or cotton.

H. ant. aux mille fleurs. Oil of ben or almonds, mixed with different essences to the fancy of the perfumer, but so that none shall predominate.

H. ant. verté. Olive oil lb. j, gum guaiacum ʒj; after some time strain, and scent to your pleasure.

H. ant. rouge à la rose. Olive oil lb. j, alkanet root ʒss; strain, and add attar of roses 15 drops.

Oil of roses. Attar of roses ʒss, O. O. O. 8 oz.

Macassar oil. Olive oil lb. j, oil of origanum ʒj.

Oil for the toothach. Ol. terebinth. ʒj, camph. ʒij.

Pomatum scent. Ol. lavand. exot. 14 oz., ol. caryoph. ver. 1 oz., ol. origani 2 oz., gum benzoin 20 oz.—2. Ess. Bergam., ess. limon. ana 12 oz., ol. caryoph., ol. origani, ana 3 oz., gum benzoin 20 oz.—3. Ess. Bergam. 1lb., ess. limon. 8 oz., ol. organ., ol. caryoph. ana 2 oz., ol. aurant. 1½ oz.

Scent for cowslip pomatum. Ess. Bergam. 1lb., ess. limon. half a lb., ol. caryoph. 4 oz.

Scent for jonquille pomatum. Ess. Bergam., ess. limon. ana half a lb., ol. caryoph. 2 oz., ol. sassafras, ol. aurant. ana 1 oz.

Scent for mille fleur pomatum. Ess. limon. 3 oz., ess. ambergris 4 oz., ol. caryoph., ol. lavand. Angl., ana 2 oz.

USED IN THE ARTS.

Whiting oil, Boiled oil, Oleum desiccativum. Nut or linseed oil 8 lb., white lead dried, sacch. Saturni dried, vitrioli albi dried, ana 1 lb., litharg. 12 oz.; boil slightly and scum until a pellicle is formed, then cool, and let it settle.—2. Linseed or nut oil 16 oz., litharge 1½ oz., vitr. alb. ʒij; boil.—3. Linseed or nut oil 16 oz., litharge 3 or 4 oz.; boil.—4. Very old linseed or nut oil 16 oz.,

litharge 3 or 4 oz., ; mix, and let it stand for some time, shaking it often, then pour off.—5. Nut oil 2lb., water 3lb., vitr. albi 2 oz. ; boil till nearly all the water is consumed, then expose to the sun for some time.—6. Oil, mix with snow or powdered ice, and keep it from thawing as long as possible ; in two months the oil will have acquired the drying property : used to mix with colours to cause them to dry quickly.

Painters' cream. Nut oil 3 oz., mastich half an oz. ; dissolve, add sacch. Saturni ʒj, and then water gradually to the consistence of cream ; used by painters to cover their work which they are obliged to leave for some time : when they begin again it is washed off with a wet sponge.

Furniture varnish. White wax 8 oz., ol. terebinth. 1 pint.

Picture varnish. Mastich 12 oz., Scio turp. 2 oz. ʒiv, camphire gr. xxx, pounded glass 4 oz., oil of turpentine 3½ pints ; pour off the clear : used for oil paintings.—2. Japanner's copal varnish 2lb., heat it, and pour it into a mixture of turpentine 1½lb., and drying oil half a lb. : it dries slowly, but never chills.

Gold varnish for leather. Turmeric, gamboge, ana ʒjss, oil of turpentine 2 pints, add seed lac, gum sandarac, ana 4 oz., dragon's blood ʒiv, turp. 2 oz., pounded glass 4 oz. ; pour off the clear.

Copal varnish. Oil of turpentine, thickened by keeping, 8 oz., copal 2½ oz.—2. Oil of turpentine 6 oz., oil of lavender 2 oz., copal 1 oz.

Japanner's copal varnish. Copal 4lb., melt in a glass matrass till the water is evaporated, as will appear by the vapour condensed on any cold substance dropping quietly to the bottom ; pour in boiling hot linseed oil 1 pint ; take the matrass from the fire, and mix the varnish while hot with about its own weight of oil of turpentine.

Transparent japan for tin ware. Oil of turpentine 8 oz., oil of lavender 6 oz., copal 2 oz., camphire ʒj.

Le Blond's varnish for prints. Balsam. Copaibæ 4lb., copal in powder 1lb. ; add by single ounces every day to the balsam, keeping it in a warm place, or the sun, stirring it often ; when all is dissolved add true Scio turpentine q. p.

Sheldrake's copal varnish. Ol. terebinth. rectific. veri 1 pint, spir. sal ammon. 2 oz. ; mix, add copal in small pieces 2 oz. ; stop the vessel with a cork cut in grooves, bring it quickly to heat, so that the bubbles may be counted as they rise, and keep it at that heat till the copal is dissolved : watch it constantly, for if the least stoppage or over-heating takes place, it is in vain to proceed : then

leave the vessel till quite cold before you open it, otherwise the varnish will be blown out with violence.

Varnish for coloured drawings. Canada balsam 1 oz., oil of turpentine 2 oz. : size the drawings first with a jelly of isinglass, and, when dry, apply the varnish, which will make them resemble oil paintings.

Common turpentine varnish. Resin. flav. 3lb. 8 oz., ol. tereb. 1 gall.—2. Ol. tereb., ol. spicæ, sang. dracon., ana lb. j.

Italian varnish. Boil Scio turp. 8 oz. until it is brittle ; powder very fine, and dissolve in ol. tereb.

Mastic varnish. Gum mastic 4 oz., ol. tereb. 2 pints.

Oil varnish for common work. Resin 3lb., turpentine 2lb., drying linseed oil 10 pints ; dissolve by heating : if too thick, thin by a little oil of turpentine.

Gold size. Ol. lini 16lb., asphalt. 2lb., brown umber 1lb., red lead 1lb., turp. 8lb.—2. Gum anime, gum asphaltum, of each 1 oz., litharge, red lead, brown umber, of each half an oz., linseed oil 4 oz., drying oil 8 oz. ; melt together, and strain.

Japan gold size. Gum. ammon. 4 oz., linseed oil 1 oz. ; dissolve by boiling, and thin by adding oil of turpentine.

Sheldrake's oil for painting. Nut or poppy oil 1 pint ; boil, add ceruss. 2 oz., when dissolved add a pint of his copal varnish, previously warmed, and stir till the oil of turpentine is evaporated : gives more brightness than common drying oil, but less than varnish ; loses its drying quality in time, therefore only so much as is sufficient for a month or six weeks' consumption should be made at once.

Black japan for leather. Boiled linseed oil 1 gallon, burnt umber 8 oz., asphaltum 3 oz., boil, and add ol. terebinth. q. s.—2. Ol. tereb. 2 oz., shell lac 1 oz., S. V. R. ꝑijij, bone black q. s.

Varnish for grates, Brunswick black. Asphalt. comm. 4lb. ; melt, add ol. lini 2lb., ol. terebinth. 1 gall.

Norfolk fluid for preserving leather. Linseed oil 3 pints, res. flav. 4 oz., fir resin 2 oz., cer. flav. 12 oz. ; melt, add neat's foot oil 2 pints, ol. terebinth. 1 pint : to preserve and soften leather.

Flexible varnish. Indian rubber dissolved in a sufficient quantity of petroleum, naphtha, or oil of coal tar ; used for varnishing balloons.

Vernis Martin. Put Scio turpentine 4 oz. into a gallon stone ware pot on a clear fire, when fluid add 8 oz. finely powdered yellow amber, in a quarter of an hour add copal in pieces 1lb., Scio turp. and warm spirit of turp.. of each 4 oz. ; in half an hour

add white resin 2 oz., keep it on the fire till it is as fluid as water, then take it off, and add of either nut, poppy, or linseed oil, hot, 24 oz., give it a boil up, add hot turpentine 2lb., boil up and add another lb. of hot turpentine, boil up, cool, and strain; if too thick set the pot in warm water, and thin with spirit of turpentine: it grows better by age.

Meggellup. Mastich varnish 1lb., pale drying oil 2lb.: used by painters to apply their glazings with.—2. Turpentine, mastich varnish, linseed oil mixed in various proportions.

Amber varnish. Scio turpentine 8 oz., melt, add 1lb. of powdered amber, keep on the fire half an hour, take it off, and add 2 oz. of white resin quite warm, add 1lb. of hot linseed or poppy oil; when cold, strain.

Hard amber varnish. Melted amber 4 oz., ol. lini 2 pints; boil until dissolved.—2. Melted amber 4 oz., ol. lini and ol. tereb. of each 1 pint: the residuum left in distilling amber may be used.

Oil varnish for buildings. Wood tar 1 gall., tallow 1 oz., brown rosin 2 oz.; melt together.—2. Wood tar 1 gall., copperas in powder 2 oz.; mix.

Prepared asphaltum. Melt Scio turp. 2 oz., add bruised asphaltum 1 oz., take it off the fire, thin with spir. turp.

Wilson's prepared asphaltum. Bals. of Copaibæ 2 oz., simmer, add bruised asphaltum 1 oz., take it off the fire and thin with spir. of turp.: an excellent glazing colour.

Scouring drops, Essence vestimentale. Spir. of turp. and essence of lemons, of each 1 oz. by measure: the oil must be fresh and the essence newly made, or the essence of lemons will leave a circle round the spot.

Oil of spike. Ol. tereb. 3 pints, ol. lavand. 1 pint: used by enamellers to mix their colours.

Furniture oil, Oil stain, Mahogany stain. Ol. lini 1 alkanet root 12 oz., rose pink 6 oz.—2. Linseed oil lb. jss, resin 4 oz.

Water proof liquid. Indian rubber ʒj, ol. tereb. 6 oz., and add ol. lini 8 oz.

SOAPS.

FOR MEDICAL USE.

ALMOND OIL SOAP, Sapo amygdalinus. Oil of almonds q. v., lixivii saponarii 3 times as much, simmer together for some hours, until the oil forms a jelly; when cooled, add common salt q. s., and

continue the boiling until the soap is solid, when cooled skim it off the water and pour it into moulds.—2. Soap ley made of barilha or kelp (at 38 deg. Baume's hydrom., or so strong that a bottle holding 8 oz. water will hold 11 of the ley) 2lb., oil of almonds 4lb.; rub them together in a mortar, and put the mixture in tin moulds for some weeks.—3. Ol. amygd. 7 pints, soap ley 13 pints, common salt q. s.; produces 11lb.

VENICE SOAP, *White Castile soap, White Marseilles soap, Alicant soap, Sapo, S. Venetus, Sapo albus Hispanicus, S. Aloensis.* From olive oil and barilha; white: are aperient, diuretic, detergent, gr. x—3ss, bis in die; also in calculous complaints, ʒss—ʒj daily.

MOTTLED CASTILLE SOAP, *Sapo Castilliensis marmoreus.* From olive oil and barilha, white, with veins made by adding a solution of green vitriol to the soap; a detergent cosmetic.

STARKEY'S SOAP, *Sapo tartari.* Rub warm subcarb. of potash with oil of turpentine, adding a little water.

MACQUER'S ACID SOAP, *Sapo vitriolicus.* Sapon. Ven. 4 oz., ol. vitrioli q. s.; add the acid by degrees to the soap rendered soft by a little water, continually rubbing the mass in a mortar; detergent: used when alkalies would be prejudicial.

CROTON OIL SOAP. Croton oil ʒj, aq. potassæ ʒss, rub together; purgative, dose gr. ij or iij.

VETERINARY MEDICINE.

SOFT SOAP, *Green soap, Sapo viridis, Sapo mollis.* From rape, linseed, and other seed oils, and a ley of potash; transparent, yellowish, with small seed-like lumps of tallow diffused through it: used externally.

BLACK SOAP, *Sapo niger.* From fresh oil and a ley of potash, without any tallow, dark coloured, ill smelling.

2. Soft soap 7lb., train oil 1lb., water 7 pints; boil together, add common ivory black q. s. to colour it: used in ointments by cattle doctors.

PERFUMERY AND COSMETICS.

Shaving paste. White wax, sperm. ceti, almond oil, of each ʒj; melt, and while warm beat up with rose water q. s., and add a square of Windsor soap.

Transparent soap. Dissolve almond soap in spirit of wine, filter, and distil off the spirit.—2. Soft soap 15lb., dry and dissolve in S. V. R. 2 gall., succ. lim. 18 oz.; scent ad libitum.

White wash balls. Sapon. alb. 6lb., amyli 3lb., aq. rosæ 8 oz., aq. rorismar. 4 oz., camphoræ ʒiv, species odorifer. 2 oz.—2. Sap.

alb. Hisp. 1lb., aq. rosar. 3 pints, album. ovar. no. ij, aq. kali ppi. 1 oz. ; boil till hard again, add ol. lign. rhod. ℥j, ol. caryoph. gtt. x, ess. jasmin. ℥j, ess. neroli ℥ss, and form into squares.—3. White soap 5lb., rad. irid. Flor. 4 oz., amyli 3 oz., styrac. calam. 1 oz., aq. rosar. q. s.—4. Sap. alb. Hisp. 1lb., almonds blanched, beat up into a paste with rose water and orange flower water 3 oz., oxid. bismuthi ℥j, kali ppi. ℥ij, moschi gr. vj, zibethi gr. iij, ol. lign. rhodii ℥j, ess. jasmin. ℥j.—5. White soap, starch, of each 1lb., ess. limon. ℥iv, aq. rosar. 8 oz. ; make into balls of 3½ oz. each.

Cream balls. White curd soap 7lb., amyli 1lb., water q. s. ; beat it together, weigh into ounce balls, and roll in pulv. amyli.

Red mottled wash balls. Cut white soap into small square pieces, roll them in powdered common bole, and squeeze the pieces together into balls, without mixing them more than is necessary.

Blue mottled wash balls. In like manner, rolling the pieces in powder blue.

Windsor soap. Hard curd soap, melted and scented with ol. carui and ess. Bergamotte.—2. Hard curd soap scented with ol. carui only.—3. Soap half a cwt., ol. carui 1lb. 8 oz., tinct. moschi 12 oz., ol. lavand. Angl. 1 oz., ol. origani ℥iiij.

Purified soap. Cut a cake of soap small, add 5 or 6 quarts of water ; heat, stir, pour into pans, and leave it to grow hard, cut it very small, let it dry as hard as wood ; pour on it brandy, adding a little salt, and turn the pieces over and over to moisten them equally ; then dry it again.

Les meilleures savonnettes de Bologne. Sav. de Bol. 3 packets, soften with eau d'ange, add French milk of roses 8 pints ; divide it into two, to each of which add 2 oz. of bals. of Peru, a thread of neroli, a good handful of a powder composed of 1-3d poudre fine à la Mareschale, 1-3d of elecampane root powdered, 1-3d labdanum, and a gallon of musked eau d'ange.

If savonnettes de la pâte de Bologne cannot be procured, use 4lb. of purified soap in the place of each packet ; and for the poudre composée you may use the cake of eau d'ange ground very fine. The musked eau d'ange is made of eau d'ange 4 pints, rose water the same quantity, musk ℥ij.

Savonnettes fines de Bologne. Three packets of savon. com. de Bologne, soften with eau d'ange for 2 or 3 days ; beat it well to get out the lumps, then part it in two. To one part of your soap add a good handful of powd. labdanum, sifted very fine, balsam of Peru half an oz., a thread of ess. of neroli, 8 pints of musked eau d'ange ; mix well together : do the same with the other parcel

of soap; after a couple of days roll them.—2. *Savonettes communes de Bologne* 3 packets, soften as before, and part in two: to each half add a handful of powd. labdanum, a handful of the cake from eau d'ange, bals. Peru 1 oz., neroli half an oz., a gallon of eau de mille fleurs; mix.

Savonettes de Neroli. Dry purified soap 8lb., moisten with orange flower or rose water; stir it twice a day till quite smooth, leave it till sufficiently dry to beat, then add powder of fine labdanum 1lb., essence of neroli 2 oz.; beat well: if it grows too hard soften with orange flower water.

Sav. communes. Soap 5lb., starch 2lb., essence of orange or citron 1 oz., eau pour faire la barbe a gallon; beat together, and make it into balls.—2. Soap 5lb., starch 2lb., eau pour faire la barbe 1 gall., oil of spike a spoonful, oil of orange (Bergamot) or citron half an oz., liquid storax 2 spoonsful.—3. Soap cut small 5lb., eau de citron 2 pints, force it through a coarse cloth, add starch 2lb., essence of orange or citron 1 oz., ceruss. 2 oz., diluted with half a pint of water; beat it well together.

Sav. bien parfumées. *Sav. de Bol.* 3 packets, soften with eau d'ange and French milk of roses; then divide in two, and perfume each part thus:—grind 3ss civette with bals. Peru 2 oz., add ess. of ambergris ʒij, a thread of oil of cinnamon, as much oil of cloves, and keep for use. To each half of soap add 2 handfuls of poudre composée as above in 3-3rds: also, half your oils, a gallon of eau de mille fleurs, and half an oz. of neroli.

FOR USE IN THE ARTS.

Furniture cream. Pearl ash 2 oz., water half a gallon, dissolve and filter; add white wax 5 oz., cut into shavings, dissolve with heat; to be diluted with water, spread upon the wood with a painter's brush, then polished with a hard brush or cloth. It may be applied to statues and the like.—2. River water 10 pints, soap a quarter of a lb., bees' wax 1lb., boil together, add 2 oz. of pearl ash; shake well: used for varnishing wood work.

Blacking balls. Adip. porc., ceræ fl. ana 1 oz., bone black, fulig. lamp., sacch. rubr. ana 8 oz., double glue size 4 oz.—2. Bone black 8 oz., gum. tragac. 1 oz., sacchar. candi 2 oz., water 8 oz.: used for blacking leather.

Scouring balls for taking grease out of cloth. Curd soap $\frac{1}{2}$ lb., ol. tereb. 1 oz., ox gall 4 spoonsful, lemon juice q. s. to moisten the mass, starch q. s. to make it into balls.

OINTMENTS.

In neighbourhoods where customers require cheap rather than good articles, *cera flava factitia* is used for bees' wax, lard for oil or spermaceti, and tallow for mutton suet.

FOR MEDICAL USE.

WHITE OINTMENT, *Unguentum album*, P. L. before 1745. Ol. rosacei ʒix, cerussæ ʒiij, cer. albæ ʒij.

UNG. CERUSSÆ, *Ung. subacetatis plumbi*, *Ung. album cum cerussâ*. Unguent. ceræ albæ lb. j, cerussæ ʒij.

UNG. OXIDI PLUMBI ALBI. Ung. simpl. ʒv, cerussæ ʒj: cooling, in excoriations.

UNG. ALBUM CAMPHORATUM, P. L. before 1745. Species for unguent. alb. as before, camphoræ ʒij, ground with a little ol. amygd.

LINIMENTUM ARCÆI. Gum. elemi, ter. Argent. ana ʒjss, sevi ppi. ʒij, adipis porc. ʒj.

UNG. E GUMMI ELEMI. Sevi ovilli lb. ij, gum. elemi lb. j, tereb. comm. ʒx.

UNG. ELEMI, P. L. *Ung. elemi compositum*. To the preceding add ol. oliv. ʒij.

Ung. elemi, P. D. Elemi lb. j, ceræ albæ lb. ss, adipis ppi lb. iv.—2. Sevi 7lb., gum. elemi 3lb., tereb. comm. 2lb., ol. oliv. Genoa 1lb.: stimulant.

BLACK BASILICON, *Ung. basilicon nigrum*, *Ung. tetrapharmacum*, *Ung. resinæ nigræ*. Ceræ flavæ, res. flavæ, picis aridæ, i. e. resinæ nigræ, ana ʒix, ol. olivar. lb. j.

YELLOW BASILICON, *Ung. basilicon flavum*. Ol. olivar. lb. j, ceræ fl., resina fl., pic. Burgund. ana lb. j, tereb. comm. ʒiij.

UNG. RESINÆ FLAVÆ. Res. fl., ceræ fl., ol. oliv. ana lb. j.

CERATUM CITRINUM, P. L. before 1745. Res. fl. lb. ss, sevi ovin. ʒiv, tereb. Arg. ʒij.

Cer. citrinum, P. L. 1745. Ung. basil. fl. lb. ss, cer. fl. ʒj.

CER. RESINÆ FLAVÆ. Ung. res. fl. lb. ss, ceræ fl. ʒj.

CER. RESINÆ. Res. fl., ceræ flavæ, ol. oliv. ana lb. j.

UNG. RESINOSUM. Axung. porc. lb. viij, resinæ albæ lb. ij, cer. fl. lb. ij.

UNG. RESINÆ ALBÆ. Axung. lb. iv, resinæ albæ lb. ij, cer. fl. lb. j.

BLUE OINTMENT, *Ungtion, Ung. cæruleum.* Argent. vivi lb. j, tereb. Venetæ ʒj, axung. porc. lb. iv.

UNG. CÆRULEUM FORTIUS. Axung. porc. lb. ij, argent. vivi lb. j, balsami sulph. simpl. ʒss.

UNG. CÆRULEUM MITIUS. Axung. porc. lb. iv, arg. vivi lb. j, tereb. comm. ʒj.

CERATUM MERCURIALE. Ceræ fl., axung. porc. ana lb. ss, argent. vivi, ʒiij, balsam. sulph. simpl. ʒj.

UNG. HYDRARGYRI FORTIUS. Hydrarg. lb. ij, adip. suill. ʒxxxij, sevi ovilli ʒj.

UNG. HYDRARGYRI MITIUS. Ung. hydr. fort. lb. j, adip. suill. lb. ij.

UNG. HYDRARGYRI, P. E. Argent. vivi, sevi ovilli, ana lb. j, adip. porc. lb. iij.

UNG. HYDRARGYRI, P. D. Argent. vivi, adip. porc. ana lb. j.

Strong mercurial ointment. Argent. vivi 6lb., axungiaë 12lb.

Weak mercurial ointment. Argent. vivi 2lb., axungiaë 14lb. : alterative, ʒj to ʒj of the strong, rubbed into the inside of the thighs, omni nocte, in syphilis; the weak used to kill vermin on the body.

DONOVAN'S MERCURIAL OINTMENT. Rub calomel with aq. potassæ, or dissolve quicksilver in nitric acid, and precipitate by adding aq. potassæ, to obtain the protoxide of quicksilver. To each drachm of this oxide add lard ʒijss, rub them together, and then heat them to about 300 or 350 deg. Fahr., and keep stirring them for two hours. Each oz. of lard takes up about gr. xxj of the oxide, and becomes of a grey colour. The exact degree of heat is of consequence; at 212 deg. the ingredients do not unite, at 400 deg. or above that heat the oxide is decomposed, and red oxide or even metallic quicksilver separates. If the lard contains common salt, calomel will be formed, and the operation will not succeed. Much more powerful than the common mercurial ointment; it being sufficient to rub in only ʒj.

2. By melting common mercurial ointment in a water bath, letting it cool slowly, and separating the upper grey stratum. By rubbing the heavy residue with magnesia alba, the greater part of the quicksilver in the blue ointment will be recovered, as it was never chemically united.

3. By exposing ung. oxid. hydr. cinerei to a heat of about 300 degrees for some hours.

MARSHMALLOW OINTMENT, *Ung. ex althæa.* Ol. e mucilagibus lb. iij, ceræ fl. lb. ss, resinaë fl. lb. ss, tereb. comm. ʒij.

UNG. NUTRITUM. Litharg. lb. ss, rub it by degrees, and alternately, with aceti ℥v, ol. rosati lb. j, by small portions of each until it is quite white.

UNG. TRIPHARMACUM. Empl. comm. ℥iv, ol. oliv. ℥ij, aceti ℥j; boil together.

LINIM. TRIPHARMACUM. Empl. comm. ℥iv, ol. oliv. ℥ij, aceti ℥j; boil together: cooling, desiccative.

EYE SALVE, *Ung. ophthalmicum*. Lap. tutiæ, lap. calamin. ana ʒvj, plumbi usti, camph. ana ℥ij, myrrhæ, særcocol., aloes, vitriol. albi, ana ʒj, butyri recentis ʒxij, ceræ albæ ℥ij.

UNG. TUTIÆ, P. L. before 1745. Tutia, ppæ. ʒij, lap. calam. ℥j, unguenti rosacei lb. jss.

Ung. tutiæ, P. L. 1745. Tutia ppæ. q. p. axung. viper. q. s.

Ung. tutiæ, P. L. 1788. Tutia ppæ. q. p. linim. ceræ alb. q. s.

Ung. zinci. Flor. zinci ℥j, adip. pp. ʒvj.

Ung. tutiæ, P. D. Tutia ppæ. ℥ij, ung. ceræ albæ ʒx.

Ung. oxidi zinci impuri. Tutia ppæ. ℥j, linim. simp. ʒv.

Ung. oxidi zinci, P. D. Flor. zinc. ʒjss, ung. ceræ albæ lb. j.

Ung. oxidi zinci, P. E. Flor. zinci ℥j, linim. simp. ʒvj: used in ophthalmia.

UNG. SIMPLEX. Axung. porc. lb. ij, aq. rosar. ʒiij; beat up together, then melt, let it settle, separate the water, beat up again into a light mass, adding ess. limon. q. p.

Ung. adipis suillæ. The same without the ess. limon.

UNG. RUBRUM DESICCATIVUM. Ol. comm. lb. ij, ceræ fl. ʒxij, boli Arm., colcoth. ana ʒvj, lap. calamin. ℥iv, litharg., cerussæ, ana ʒvjss, camphoræ ʒss; desiccative, cicatrizing.

WHITE ELDER OINTMENT, *Ung. sambucinum*, *Ung. sambuci*, P. L. before 1809. Flor. sambuci lb. iv, sevi ovill. lb. iij, ol. olivæ lb. j.

UNG. SAMBUCI FLORUM. Fl. samb., adip. ppa. ana lb. ij.

2. Fl. sambuci 28lb., axung. porc. 84lb., sevi 28lb.; produced when strained 98lb.

3. *Ung. sambuci* comm. 1lb., ceræ albæ 1 oz., ol. lavand. exot. ʒij, for retail sale; emollient.

Ung. sambuci, P. D. Fl. samb. lb. iij, adip. pp. lb. iv., sevi ppi. lb. ij.

BALSAMUM LOCATELLI. Ol. olivæ lb. j, tereb. Ven. lb. ss; boil to an ointment, add santali rubri ʒvj; pectoral; used internally in coughs, with an equal quantity of cons. rosar.

2. Use sang. drac. for sant. rub. ; this has a hot taste.

BALS. VIRIDE. Ol. lini lb. ss, elemi ʒij, ærug. ʒij.

UNG. DETERGENS. Resinæ fl., axung. porc., sevi ovilli, ana lb. j, ceræ flavæ, olibani, ana lb. jss, cuphorbii, ærug. ana ʒij, tereb. Argent. ʒiij.

UNG. BASILICUM VIRIDE. Ung. basil. fl. ʒviiij, ol. oliv. ʒiij, æruginis ʒj.

UNG. ÆRUGINIS. Ung. ceræ albæ lb. j, æruginis ʒss.

Ung. subacetatis cupri. Ung. resinosi ʒxv, ærug. ʒj ; detergent, and to keep down fungous flesh.

THE GREEN OINTMENT, *Ung. sambuci viride.* Ol. viridis lb. iij, ceræ fl. ʒx.

2. Axung. porc. 1 cwt., fol. sambuci 56lb., sevi 14lb. ; boil together till the leaves are crisp, strain, put it again on a slow fire, and gently stir it till it is of a beautiful green colour ; this is much better than adding ærugo to colour it, as is done by some.

UNG. NERVINUM. Ol. laurini 3lb., ung. sambuci virid. 1lb., axungiæ 2lb., ol. succini 4 oz. : the original ointment had a number of herbs, boiled in ol. nervini lb. v, sevi lb. ij, and was scented with ol. spicæ ʒjss.

UNG. POPULNEUM. This is another compound ointment of a number of herbs, boiled in lard, for which green elder ointment is now sold ; emollient.

SPERMACETI OINTMENT, *Ceratum album.* Ol. oliv. ceræ albæ, ana ʒiv, sperm. ceti ʒss.

UNG. ALBUM, P. L. 1745, *Ung. ceræ.* Ol. oliv. lb. j, ceræ albæ ʒiv, sperm. ceti ʒiij.

LINIM. ALBUM, *Ung. spermatis ceti, Ung. cetacei.* Ol. oliv. ʒiij, ceræ alb. ʒij, sperm. ceti ʒvj.

CERATUM SPERMATIS CETI, *Cer. cetacei.* Ol. oliv. ʒiv, ceræ albæ ʒij, sperm. ceti ʒss.

CER. SIMPLEX, P. E. Ol. oliv. ʒvj, ceræ albæ ʒiij, sperm. ceti ʒj ; emollient, in excoriations.

WHITE PRECIPITATE OINTMENT, *Ung. e mercurio præcipitato.* Ung. simplicis ʒjss, sulph. præcip. ʒij, merc. præc. albi ʒij, aq. kali ppi. q. s.

UNG. CALCIS HYDRARGYRI ALBÆ. Ung. adipis suillæ ʒjss, calc. hydrar. albæ ʒj.

UNG. HYDRARGYRI PRÆCIPITATI ALBI. Adip. ppæ ʒjss, hydr. præc. albi ʒj.

UNG. SUBMURIATIS HYDRARGYRI AMMONIATI. Ung. ceræ albæ lb. j, submur. hydrarg. ammon. ʒjss.

TAR OINTMENT, *Ung. e pice*, *Ung. picis*, P. L. *Ung. picis liquidæ*. Picis liquidæ, sevi ppi, ana p. æq.

Ung. picis, P. E. Picis liq. lb. v, ceræ fl. lb. ij; are detergent: used in cutaneous foulness.

OINTMENT OF SUGAR OF LEAD, *Ung. Saturninum*, P. L. Ol. oliv. lb. ss, ceræ albæ ʒjss, sacch. Saturni ʒij.

Ung. cerussæ acetatæ, *Ung. plumbi superacetatis*. The same, with ceræ albæ ʒij.

Ung. acetatis plumbi, *Ung. Saturninum*, P. E. Ung. simp. ʒxx, sacch. Saturni ʒj.

Ung. acetatis plumbi. Ung. ceræ albæ lb. jss, sacch. Saturni ʒj; cooling, desiccative.

BRIMSTONE OINTMENT, *Ung. e sulphure*. Ung. simp. lb. ss, flor. sulph. ʒij, ess. limon. ʒj.

Ung. sulphuris, P. L. before 1809. Ung. adip. suil. lb. ss, fl. sulph. ʒiv.

Ung. sulphuris, P. L. since 1809. Adip. ppæ. lb. ss, fl. sulph. ʒiij.

Ung. sulphuris, P. D. Adip. ppæ. lb. iv, fl. sulph. lb. j.

Ung. sulphuris, P. E. Axung. porc. lb. iv, fl. sulph. lb. j, scent with ess. limon. or ol. lavand. ʒss.

Itch ointment, *Ung. sulphuris compositum*. Adip. ppæ. lb. jss, fl. sulph. lb. ss, rad. helleb. albi ʒij, nitri salis ʒj, sapon. mollis lb. ss: are used in psora; the compound ointment is the most efficacious, but irritates.

Jackson's itch ointment. Adip. ppæ., ol. palmæ, sulph. vivi, rad. helleb. albi, ana p. æq.

BLISTER OINTMENT, *Ointment of Spanish flies*, *Ung. advesicatoria*. Axung. porc., empl. vesicatorii, ana q. æq.

Ung. cantharidis, P. L. *Ung. lyttæ*. Canthar. ʒij, aquæ ʒviii; boil to one half, strain, add ung. resinæ fl. ʒviii; boil to an ointment.

Ceratum camphoræ. This is made with half an ounce of camphor and two ounces of ceratum cetacei, as an external application in the treatment of psoriasis.

CERATUM CANTHARIDIS, *Cer. lyttæ*. Cerat. sperm. ceti ʒvj, canth. ʒj.

Ung. cantharidis, P. D. Ung. ceræ fl. lb. ss, canth. ʒj.

Ung. pulveris meloës vesicatorii, Ung. epispasticum fortius. Ung. resinosi ʒvij, canth. ʒj.

UNG. INFUSI MELOES VESICATORII, *Ung. epispasticum mitius.* Canth. ʒj, aquæ ferv. ʒiv; infuse for a night, strain with impression, add axung. porc., tereb. Ven. ana ʒij, resinæ, ceræ fl. ana ʒj: used to keep blisters open.

UNG. ALBUM CAMPHORATUM, P. L. 1745. Ol. oliv. lb. j, ceræ albæ ʒiv, sperm. ceti ʒiij, camph. (ground with a little ol. amygd.) ʒjss; cooling, in excoriations.

PILE OINTMENT, *Ung. linariæ.* Herb. linariæ c. flor., axung. porc. ana 1lb.; beat up, and boil together till the moisture is consumed.

UNG. OPIATUM. Pulveris opii ʒj, unguenti cetacei ʒiij. Contunde gradatim.

UNG. PRO PORRIGINE. Ung. picis, ung. hydrarg. nitrici mitioris, ung. cetacei, ana p. æq. Misce.

TURNER'S CERATE, *Healing salve, Ceratum epuloticum, Cer. lapidis calaminaris*, P. L. *Cer. calaminæ.* Ol. oliv. lb. j, ceræ fl. lb. ss; melt, cool, and when it begins to set, add lap. calamin. lb. ss.

UNG. CALAMINARE. Ung. ceræ fl. lb. v, lap. calam. lb. j.

CERATUM CARBONATIS ZINCI IMPURI, *Cer. lapidis calaminaris*, P. E. Cerat. simpl. lb. v, lap. calam. lb. j: drying, cicatrizing.

UNG. HELLEBORI ALBI, P. L. *Ung. veratri.* Rad. helleb. albi ʒij, adip. ppæ. ʒviiij, ess. limon. ʒj.

Ung. hellebori albi, P. D. Rad. helleb. albi ʒiij, adip. ppæ. lb. j: used in itch for the upper ranks of society, who object to sulphur.

UNG. HYDRARGYRI NITRATI. Argent. vivi ʒj, acid. nitrosi ʒij; dissolve, and while warm add adip. suillæ lb. j, previously melted.

Ung. hydrargyri nitratis, P. L. 1809. Instead of lard only, use adip. suillæ ʒvi, ol. oliv. ʒiv, previously melted together.

Ung. hydr. nitr. P. L. 1815. Instead of acid. nitrici ʒij, use only ʒxj.

Ung. supernitratis hydrargyri. Instead of lard only, use adip. suillæ ʒiv, ol. oliv. lb. j, previously melted together.

Ung. nitratis hydrargyri fortius. Arg. vivi ʒj, acid. nitr. ʒij, ol. oliv. ʒix, adip. ppæ. ʒiij.

Ung. nitr. hydr. mitius. As the ung. nit. hyd. fort., but with.

three times as much oil and lard: stimulant, detergent, in psora, herpetic eruptions, and in ulcerations of the tarsi. Only a small quantity should be made at a time, as it grows too hard for use by keeping.

GOULARD'S OINTMENT, *Ceratum lithargyri acetati*, *Cer. plumbi compositum*. Lid. plumbi acet. ℥ijss, cera fl. ℥iv, ol. oliv. ℥ix, camphoræ ℥ss.

CER. SAPONIS. Litharg. lb. j, aceti lb. viij; boil till they unite, add sapon. Venet. ℥viiij, ceræ fl. ℥x, ol. oliv. lb. j: cooling, defensive.

OIL AND BEES' WAX, *Ceratum*, *Cer. simplex*, P. L. Ceræ fl. ℥iv, ol. oliv. ℥iv.

UNG. CERÆ FLAVÆ. Ceræ fl. lb. j, adip. ppæ. lb. iv.

UNG. CERÆ ALBÆ. Ceræ albæ lb. j, adip. ppæ. lb. iv.

UNG. SIMPLEX. Ceræ albæ ℥ij, ol. oliv. ℥v.

LINIMENTUM SIMPLEX. Ceræ albæ ℥j, ol. oliv. ℥iv: emollient.

UNG. CONII. Fol. conii rec., adipis, ana ℥iv; well beat together, then melted and strained; in ophthalmia tarsi.

Weak ung. conii. To ℥j of the former, add sperm. ceti ℥j, ceræ albæ ℥jss; for painful and irritable ulcers.

UNG. OPHTHALMICUM. Merc. præc. rubri, lap. calam. ppi. ana ℥jss, litharg. ℥j, tutiæ ppæ. ℥ss, cinnabaris ℔j, adipis suill. ℥ij, bals. Peruv. gtt. xv; in specks on the eyes, arising from small ulcers which have healed up.

UNG. PLUMBI COMPOSITUM. Camph. ℥ss, ol. olivæ ℥ix, ceræ fl. ℥iv, extr. Saturni ℥ss; in ulcers of difficult cure.

2. Ung. ceræ ℥j, Merc. præc. rubri ℥j, extr. Saturni ℥j, extr. opii ℥ij; for ulcers that slough.

SMELLOME'S EYE OINTMENT. Ærug. ℥ss, ol. oliv. gtt. xxx, ung. basilic. ℥j.

MARSHALL'S CERATE. Ol. palmæ ℥v, calomel. ℥j, sacch. Sat. ℥ss, ung. nitr. hydrargyri ℥ij.

KIRKLAND'S NEUTRAL CERATE. Diach. ℥viiij, ol. oliv. ℥iv, cretæ ppæ. ℥iv; when nearly cool, add acet. dist. ℥iv, sacch. Sat. ℥iiij.

UNG. HÆMORRHOIDALE. Ol. olivæ comm. 6 pints, ceræ albæ 2lb. 12 oz., sperm. ceti 1lb. 8 oz., pulv. gallæ 9 oz., pulv. opii 4 oz., extr. Saturni 2lb. 8 oz.

Ung. iodureti sulphuris. This is prepared by taking of ioduret of sulphur 5 parts, lard 96 part. It has been used in chronic cutaneous diseases.

BLUE CERATE, *Cer. defensivum ceruleum*, P. Belg. Ceræ fl., ung. nutriti, ana ʒiv , ol. oliv. lb. ss, smalti pulv. ʒiij ; M.

EDINBURGH ITCH OINTMENT. Picis nig. 1lb., lac. sulph., adeps suil. ana 2lb.

LE MORT'S OINTMENT. Axung. porc. 7lb., tereb. Ven. 1lb., litharg. 1lb., cerus. 1lb., alum 6 oz., corros. subl. 1lb., vermilion 1 oz.

SINGLETON'S GOLDEN OINTMENT. Auripigmentum, lard, ana q. s.; used as an eye-salve.

DUPUYTREN'S EYE-SALVE. Red oxide of mercury gr. x, sulphate of zinc gr. xx, axungia ʒij .

ASTRINGENT OINTMENTS. Hogs' lard 6 oz., Venice turp. 4 oz.; melt, and while liquid add sugar of lead powd. 2 oz.

2. Hogs' lard 4 oz., oil of rosemary 2 dr., flake white powd. $1\frac{1}{2}$ dr.; mix.

3. Hogs' lard 4 oz., oil of turp. 2 dr., extract of lead half an oz.; mix.

4. Strained turpentine 1 oz., hogs' lard 4 oz., alum fine powdered 1 oz.; mix.

5. Treacle 4 oz., powdered alum 1 oz.; mix.

6. Honey 8 oz., sugar of lead $1\frac{1}{2}$ oz., blue vitriol 1 oz.

RED PRECIPITATE OINTMENT, *Ung. hydrargyri nitrico-oxydi*. Præcip. rubri ʒj , ceræ albæ ʒij , adip. ppæ. ʒvj .

UNG. SUBNITRATIS HYDRARGYRI. Præcip. rubri ʒss , ung. ceræ albæ lb. ss.

UNG. OXIDI HYDRARGYRI RUBRI. Præcip. rubri ʒj , adipis ʒviiij ; stimulant; used to ill-conditioned ulcers, also weakened with lard as an eye-salve.

LINIMENTUM HYDRARGYRI. Camph. ʒj , S. V. R. gtt. xv; grind, add adip. ppæ., ung. hydr. fort. ana ʒiv , liquor ammoniæ ʒiv ; as the blue ointment; but quicker in its operation.

LIN. TEREBINTHINÆ. Ol. tereb. ʒviiij , cer. resinæ lb. j; stimulant in burns.

UNG. ACIDI NITROSI, P. D. Ol. oliv. lb. j, adip. ppæ. ʒiv , acid. nitrosi ʒj .

OXYGENISED LARD, *Ung. acidi nitrosi*, P. E. Adip. ppæ. lb. j, ac. nitr. ʒvj : stimulant, to foul ulcers; frequently sold for the ung. hydr. nitrati.

UNG. OXIDI HYDRARGYRI CINEREI. Oxyd. hydr. ciner. ʒj , adip. ppæ. ʒiij ; substituted for blue ointment, being made with less labour, but seems inferior in operation. If exposed to a heat

of about 300 degrees for some hours, it will be changed into Donovan's mercurial ointment, and thus augmented in power.

PEPPER SALVE, *Ung. piperis nigri.* Adip. ppæ. lb. j, pip. nigri ꝑiv; stimulant, irritative.

COMMON ITCH OINTMENT. Adip. suillæ 16lb., tereb. Ven. 11b. 12 oz., Merc. corros. sublim., Sacch. Saturni ana, 2lb., sal. ammon. 1lb., alum. comm. 1lb., cinnab. q. s. to colour it, scent with ess. limon.

2. Adip. ppæ. 5lb., ol. palmæ 1lb., cerussæ 6 oz., alum rupei, Merc. corros. subl., lithargyri, ana 4 oz.

BAILEY'S ITCH OINTMENT. Ol. olivæ, axung. porc., with sal. nitri, alum, vitriol. alb. and cinnabar, scented with ol. anisi, ol. origani, and ol. spicæ verum, and coloured with rad. anchusæ.

DR. BATEMAN'S ITCH OINTMENT. Kali ppi. ꝑss, aq. rosæ ꝑj, cinnab. ꝑj, ess. Bergam. ꝑss, fl. sulph. axung. porc., ana ꝑxj.

SAVINE OINTMENT, *Ceratum sabinæ.* Fol. sabinæ rec. lb. j, ceræ fl. lb. ss, adip. ppæ. lb. ij.

UNG. SABINÆ. Fol. sabinæ, ceræ fl. ana lb. ss, adip. ppæ. lb. ij; used to keep open ulcers.

UNG. AMMONIÆ. Ammonia carbon. ꝑss, cerati simpl. ꝑss; for scrofulous ulcers.

UNG. LAPIDIS CALAMINARIS SATURNINUM. Cer. calam. ꝑj, extr. Saturni ꝑj; for burns.

UNG. CATECHU. Catechu ꝑiv, alum ꝑix, res. fl. ꝑiv, ol. oliv. ꝑx, water q. s.: a good application to ulcers in warm climates, as the fat and resinous ointments of the colder countries have a bad effect.

POMMADE DE VERATRINE. Veratrine gr. iiij, prepared lard ꝑj: used in rheumatism and gout.

POM. AVEC L'HYDRIODATE DE POTASSE. Hydriodate of potash ꝑss, ppd. lard ꝑjss: used in scrofula and swelled glands.

POM. D'HYDRIODATE IODURE DE POTASSE. Pom. d'hydriod. de potasse ꝑjss, iodine gr. iiij to xiiij: stronger than the plain pommade.

POM. AVEC L'IODATE DE ZINC. Iodate of zinc ꝑj, ppd. lard ꝑj: used also in scrofula.

POM. DE PROTO-IODURE DE MERCURE. Proto-iodure of quicksilver gr. xvj, ppd. lard ꝑjss.

POM. DE DEUTO-IODURE DE MERCURE. Deuto-iodure of quicksilver gr. xvj, ppd. lard ꝑjss.

POM. D'OR. Gold divided by quicksilver gr. j, ppd. lard ꝑss.

POM. DE MURIATE D'OR-ET-DE-SOUDE. Sodo-muriate of gold 1-10th of a grain, ppd. lard ʒss: used in venereal ulcers.

COMMON OIL OF MACE, *Unquent. macis.* Macis, ol. palmæ, ana 1lb.; beat to a paste, add beef marrow melted 3lb.

STYRAX COLATA FACTITIA. Bals. Tolu 6lb., bals. Peruv. 1lb. 8 oz.—2. Gum. benzoin. 8lb., styr. liquidæ 6lb., bals. Tolu 3lb., bals. Peruv. 2lb., gum. flavi N. S. W. 7lb., S. V. R. 6 gall.; let them stand for a fortnight, strain, distil to a proper consistence: about 12 pints of the spirit is consumed; what comes over will serve for the same purpose another time: produces about 24lb.

3. Gum. styr. 3lb., gum. benzoin. 6lb., bals. Tolu 2lb. 4 oz., aloes Socotr. 12 oz., S. V. R. 6 gall.; digest three or four days, and add bals. Peruv. 6 oz., ol. olivæ opt. 4 oz.

GALBANUM COLATUM REDUCTUM. Galbani col. veri 7lb., picis Burgund. 3lb., tereb. Venetæ 2lb.—2. Gum. galb. 2nd 14lb., sagap. 7lb., ol. tereb. 10lb., tereb. Venet. 4 oz.—3. Galban., tereb. Ven., ana 12 oz., ass. foetid. 5 oz., resin. nigr. 2lb., aquæ q. s.—4. Galban. 50lb., tereb. venet. 5lb., resin. nigr. 1lb.; produces 49lb.

TEREBINTHINA CHIA FACTITIA. Balsami Canad., resinæ flavæ, ana p. æq.—2. Tereb. Ven., res. fl. ana lb. ij, bals. Can. 12 oz.—3. Res. fl. 56lb., rape oil 1 gall., water 2 gall., ol. tereb. 2 gall.

STYRAX LIQUIDA REDUCTA. Styrc. liquidæ 1 oz., bals. Tolu 2lb., S. V. R. q. s.


STYRAX CALAMITA FACTITIA. Ras. guaiac. 2lb., gum. benz. pulv. 6 oz., sang. drac. ʒij, fine bone black ʒjss, bals. Peruv., S. V. R. ana q. s.

POIX JAUNE, Poix de Bourgogne. Melt perrosin, take it from the fire, and add spir. of turp. to reduce it to the proper consistence.

FOR VETERINARY MEDICINE.

BLISTERING OINTMENT FOR HORSES, *Ung. epispasticum equinum.* Ung. laurini, ung. samb., ana 1lb., canthar., euphorbii, ol. origani, ana 8 oz., Merc. corr. subl. ʒj.—2. Pic. Burgund. 12 oz., tereb. comm. 5 oz., canthar. 10 oz., euphorbii 1 oz., axung. porc. 1lb. 8 oz., aceti comm. 8 oz.—3. Ung. laurini 4 oz., ol. origani 1 oz., canthar., euphorbii, ana ʒij.—4. Ung. viridis 1lb. 8 oz., euphorb. ʒij, ol. origani 1 oz., canthar. 2 oz., tereb. comm. 1½ oz.—5. Cantharides half an oz., oil of turpentine 1 oz., hogs' lard 4 oz.; mix.—6. Oil of turp. 1 oz., add gradually oil of vitriol 2 drachms, hog's lard 4 oz., cantharides 1 oz.; mix.—7. Tar 4 oz., oil of vitriol 2 drachms, hogs' lard 2 oz., oil of origanum half an

oz., cantharides 2 oz.; mix very carefully.—8. Hogs' lard 4 oz., oil of turp. and Spanish flies powd., of each 1 oz., mix.—9. Hogs' lard 6 oz., oil of rosemary 4 dr., oil of origanum 2 dr., corrosive sublimate 1 dr., (dissolved in spirit of salt 2 dr.,) Spanish flies powd. 6 dr.; mix.—10. Hogs' lard 6 oz., Venice turp. 4 oz., bees' wax 2 oz., yellow resin 1 oz.: melt together, and when cooling add oil of origanum half an oz., cantharides 3 oz.: if it grow too hard in winter, soften with oil of turpentine on a slab.

MILD DRESSING FOR CANKER IN HORSES. Tar 8 oz., oil of vitriol 1 oz.; mix.—2. Tar 8 oz., verdigris 1 oz.; mix.—3. Honey 3 oz., dist. verdigris 1 oz., alum and bole of each half an oz., vinegar 4 oz.;  in a gentle heat.

DIGESTIVE OINTMENT. Hogs' lard and strained turpentine of each 4 oz., verdigris or blue vitriol 1 oz.; mix.—2. Yellow basilicon 4 oz., oil of turp. and red precipitate finely powdered, of each 1 oz.; mix.—3. Ointment of nitrated quicksilver 4 oz., oil of turp. 1 oz.; mix.—4. Hogs' lard and common turp. of each 1 lb.; melt and add verdigris 2 oz.: stir till cold.

OINTMENT FOR FISTULAS IN HORSES. Ointment of nitrated quicksilver 4 oz., oil of turpentine 1 oz.; mix.—2. Yellow basilicon 4 oz., oil of turpentine 1 oz., verdigris half an oz.: mix.—3. Oil of vitriol 1 oz., add cautiously oil of turpentine 2 oz.; when mixed, add turpentine and hogs' lard of each 3 oz.

OINTMENT FOR GREASE. Hogs' lard 4 oz., white lead 1 oz.; mix.—2. Hogs' lard 4 oz., palm oil 2 oz., olive oil 1 oz.; melt together, and when cold add extract of lead $1\frac{1}{2}$ oz.

OINTMENT TO GROW HAIR, on broken knees. Wax ointment 2 oz., camphire 2 drachms, oil of rosemary 1 dr.; colour with ivory black or common bole.

HOOF OINTMENT. Tar, tallow, of each 1 lb.; melt together, for cracked heels.—2. Pitch, tar, hogs' lard, of each 1 lb.; melt together.

HEEL OINTMENT. Axungiæ 3 lb., mellis 2 lb., tereb. comm. 1 lb., vitriol. cærul., ærug. æris, alum. comm., ana 8 oz., train oil 8 oz.; used by farries and grooms.

OINTMENT FOR LOW, or foot rot, in cows. Hogs' lard, common turp., of each 4 oz.; melt, and add blue vitriol 1 oz.

OINTMENT FOR MALLENDERS AND SALLENDERS. Wax ointment 2 oz., olive oil 1 oz., camphire and oil of rosemary, of each 1 dr., extract of lead 2 dr.; mix.—2. Ointment of nitrated quicksilver and olive oil, of each 1 oz.; mix.—3. Hogs' lard 1 oz., red precipitate 2 drachms; mix.

OINTMENT FOR THE MANGE, in horses. Hogs' lard 6 oz.,

sulph. vivum 4 oz., oil of turpentine 3 oz.; mix.—2. Oil of tar 8 oz., oil of turpentine 4 oz., sulphur vivum 2 oz.; mix.

OINTMENT FOR SITFASTS. Camphire 2 drachms, oil of origanum 1 dr.; dissolve.—2. Mercurial ointment 9 oz., calomel half a drachm, oil of turpentine 9 dr.; mix.

STIMULATING OINTMENT FOR HORSES. Yellow basilicon 4 oz., sweet oil and red precipitate of each half an oz.; mix.

LINIMENT FOR SUPPURATING INFLAMED GLANDS IN HORSES. Sperma ceti ointment 2 oz., camphire 2 dr., oil of origanum 1 dr.; mix.

CHARGE FOR WINDGALLS, or lameness. Burgundy pitch 4 oz.: bees' wax 3 oz., Barbadoes tar 2 oz.; melt, and add red lead 4 oz.; if too hard, soften with sweet oil or lard.

STOPPING FOR THE FEET. Tallow 2lb., tar and common turpentine of each 1lb.; melt together.—2. Clay and cow dung mixed.

OINTMENT FOR MANGE. Train oil 12 oz., oil of turp. 4 oz.; mix, and add sulphur vivum 4 oz.

SEVUM MELILOTI. Suet 8lb., melilot leaves 2lb.; boil till crisp: used in making melilot plaster.

OINTMENT OF STAVESACRE. Stavesacre seed powdered, made into an ointment with lard and train oil; useful to kill lice in cattle.

COMMON OIL OF BAYS, *Ung. laurinum vulgare*. Fol. lauri lb. j, bacc. lauri lb. ss, fol. brassicæ $\frac{3}{4}$ iv, neat's foot oil lb. v, beef suet lb. ij; boil and express.

FOR THE KITCHEN.

Salted butter, Butyrum salitum. Fresh butter 16lb., salt 1lb, well beat together; used to keep the butter fresh: the salt may at any time be washed out, and the butter sold for fresh, or used in its salted state.

Fine salted butter. Butter 16lb., salt 14 oz., saltpetre 1 oz., brown sugar or honey 1 oz.; well beat together, and kept in a cool place for one or two months before it is used: eaten in its salted state, rich like marrow.

Honey butter. Rich butter 15lb., honey 1lb., beat up together; as a delicacy for sick or aged persons.

FOR PERFUMERY AND COSMETICS.

Cold cream, Ceratum Galeni. Ol. amygd. 1lb., ceræ albæ 4 oz.; melt, pour into a warm mortar, add by degrees aq. rosar. lb. j: it should be very light and white.—2. Trotter oil 1 pint, aq. rosar

2 pints, sperm. ceti melted 1lb. 8 oz., ceræ albæ melted 1 oz., ol. amygd. 2 oz., ess. Berg. 1 oz.; beat it up together, and keep it floating upon some rose-water.—3. Lard 1lb., sperma ceti 4 oz.

Hudson's cold cream. Ol. amygd. ʒij, cer. alb., sperm. ceti, ana ʒj; melt, while warm add aq. rosæ ʒij, aq. fl. aurant. ʒss.

Red lip salve, Ceratum labiale rubrum. Ceræ alb. 4 oz., ol. oliv. 5 oz., sperm. ceti ʒiv, ol. lavand. gtt. xx, rad. anchusæ 2 oz.—2. Ol. oliv. opt. 2 oz., ceræ alb., sperm. ceti, ana 3 oz., rad. anchusæ ʒvj; melt, strain, add ol. lign. rhod. gtt. iij.—3. Ol. amygd. 6 oz., sperm. ceti 3 oz., ceræ alb. 2 oz., rad. anchusæ 1 oz., bals. Peruv. ʒij.

White lip salve, Ceratum labiale album. Ol. amygd., sperm. ceti, ceræ albæ, sacch. candi albi, ana p. æq.

Pommade de la jeunesse. Pomatum mixed with pear white, or magistery of bismuth; turns the hair black.

Pommade d'orange. Axung. porc. 1lb., ol. palmæ 8 oz., ess. neroli 1 oz.—2. White wax 2lb., bees' wax 4lb., lard 3½lb., suet 6lb. 4 oz.; makes 3 doz. pots French orange pomatum.

Pommade divine. Beef marrow 1lb. 8oz., cinnam. 1½ oz., stor. calam., benzoini, rad. irid. Flor. ana 1 oz., caryoph., nuc. myrist. ana ʒj.—2. Sevi ovilli 1lb. 8 oz., stor. calam. benz., rad. irid. Flor., rad. cyperi, cinnam., caryoph. arom., nuc. mosch. ana ʒix; keep melted in a gentle heat for some time, then strain.—3. Sevi ovilli 4lb., ceræ alb. 1lb., ess. bergam., ess. limon. ana 1½ oz., ol. lavand., ol. origani, ana ʒiv. This last oil, by its stimulating power, promotes the growth of the hair.—4. Marrow 2½ lb., bals. Gilead. 3 oz., ol. caryoph. arom. 1 oz.

Pommade à la rose. Lard lb. j, suet 4 oz., rose water 1 oz., spirit of roses 1 oz.: mix.

French rose pommade divine. Beef suet 4lb., yellow wax 6 oz., thick honey 1 oz., rose leaves 1 peck, rose water 1 pint; melt, when chill, add extr. roses 1 oz., and mould it.

Common pomatum. Lard 12lb., suet 4lb., ess. lim. 8lb.

East India pomatum. Suet 9lb., lard 8lb., bees' wax 1lb., ess. lim. 8 oz., gum. benz. 10 oz., musk ʒiv.

Pommade à la jasmine. Same as P. à la rose, but using spirit of jasmine.

Millefleurs pomatum. Same as East Indian, but made with white wax instead of yellow.

Rose pomatum. White wax 2lb. 14 oz., bees' wax 2lb., lard 6lb. 12 oz., suet 9lb., rose water 2 pints; makes 45 pots French rose pomatum.

Soft pomatum. Suet 9lb. 8 oz., lard 9lb. 4 oz., bees' wax, benjamin powdered, scent, of each 8 oz.

Soft Mareschal pomatum. Lard 11lb. 8 oz., suet 12lb., bees' wax 6lb., scent 10 oz., Mareschal powder 12 oz.

French pommade. Wash pigs' flare in water, changed every three hours for four days, the last two days squeeze it with a spoon when you change the water; drain it well, melt it in a water bath, pour it into a basin of water, stir it together till cold, then beat it up to separate the water.—2. Pommade 4 oz., white wax, spermaceti, of each half an oz., oil of almonds 2 oz.

Pommade aux fleurs. Spread pommade as thick as a finger on two pewter plates, cover one with flowers, and then turn the other plate upon it that the flowers may not be squeezed; leave them twelve or twenty-four hours, adding fresh flowers until your pommade is sufficiently scented. It is only pommade de jasmin, fleurs d'orange, and tubereuse, that can be made in this manner, other flowers are not sufficiently strong to scent the pommade.

Pommade pour rafraichir le teint et ôter les rongeurs du visage. Pommade lb. ss, rennet apples no. 2, cut in pieces without peeling, four cold seeds 1 oz.; melt; add oil of almonds 1 oz., strain into spring water, when cold beat out the water.

USED IN THE ARTS.

Oil colours in bottles. Prepared with the spermaceti mixture like oil colour cakes, but the proportion of oil is larger.

Fish oil paints. The oil for grinding white is made by putting litharge and white vitriol of each 12lb., into vinegar 32 gallons, adding, after some time, a ton of whale, seal, or cod oil; the next day the clear part is poured off, and linseed oil 12 gallons, oil of turpentine 2 gallons, are added.—The sediment, left when the clear oil is poured off, mixed with half its quantity of lime water, is also used under the name of *prepared residue oil* for common colours.

Pale green. Lime water 6 gall., whiting and road dust, of each 1 cwt., blue black 30lb., yellow ochre 24lb., wet blue previously ground in prepared residue oil 20lb.; thin with ppd. residue oil 1 quart to each 8lb., and the same quantity of linseed oil.

Bright green. Yellow ochre 1 cwt., road dust $1\frac{1}{2}$ cwt., wet blue 1 cwt., blue black 10lb., lime water 6 gall., ppd. fish oil 4 gall., ppd. residue oil and linseed oil, of each $7\frac{1}{2}$ gall.

Lead colour. Whiting 1 cwt., blue black 5lb., white lead ground in oil 28lb., road dust 56lb., lime water 5 gall., ppd. residue oil $2\frac{1}{2}$ gall.

Brown red. Lime water 8 gallons, Spanish brown 1 cwt., road dust 2 cwt., ppd. fish oil 4 gall., ppd. residue oil and linseed oil, of each 4 gall.

Yellow. Put in yellow ochre instead of Spanish brown, as in the last.

Black. Put in lamp black or blue black.

Stone colour. Lime water 4 gallons, whiting 1 cwt., white lead ground in oil 28lb., road dust 56lb., ppd. fish oil 2 gallons, ppd. residue oil and linseed oil, of each $3\frac{1}{2}$ gallons. The cheapest of these paints, and the hardness and durability given to them by the road dust (i. e. ground gravel) has brought them into great use for common out-door-painting.

Flexible paint. To each cwt. of oil paint is to be added yellow soap lb. j, dissolved in water lb. vj, and mixed while still hot; used for painting canvas.

Glaziers' putty. Whiting and drying oil.

Anti-attrition. Hogs' lard lb. x, camph. 4 oz., black lead q. s. to colour it; used to rub on iron to prevent rust, and diminish friction.

Dressing for leather to render it waterproof. Ol. lini 1lb., ceræ fl., tereb. comm. ana 2 oz., picis Burg. 1 oz.—2. Ol. lini 1 lb., sevi 8 oz., ceræ fl. 6 oz., resinæ fl. 1 oz.

Callot's soft varnish for etching. Oil of linseed 4 oz., gum benzoin, white wax, of each half an oz.; melt, and keep it on the fire till it is reduced to two-thirds: keep in a pot.

PLASTERS.

FOR MEDICAL USE.

ADHESIVE PLASTER, *Emplastrum adhæsivum, E. commune adhæsivum, E. lithargyri cum resina, P. L. E. resinæ.* Diachyl. simpl. lb. iij, resinæ fl. lb. ss.—2. Ol. oliv. 79lb., litharg. 46lb. 8 oz., resinæ fl. 16lb.; used to bring together the edges of wounds, or confine other dressings.

EMPL. LITHARGYRI CUM RESINA, P. D. Diachyl. simp. lb. iij, resinæ fl. lb. ss.

EMP. RESINOSUM. Diachyl. simp. lb. v, resinæ fl. lb. j.

EMPLASTRUM AMMONIACI. Gum ammoniac $\frac{3}{4}$ v, distilled vinegar $\frac{3}{4}$ vij; evaporate to a proper thickness; discutient in scrofula and white swellings. The empl. ex ammon. P. L. 1720, was an unguent, containing ammon. $\frac{3}{4}$ vj in $\frac{3}{4}$ xxvjss.

EMP. EX AMMONIACO CUM MERCURIO, *E. ammoniaci cum*

hydrargyro, P. L. Hydrarg. ℥iij, balsam. sulph. ℥j; rub together, add gum. ammon. lb. j.

Emp. ammoniaci cum hydrargyro, P. D. Use tereb. com. ℥j, to kill the quicksilver.

BAYNTON'S ADHESIVE PLASTER. Diachyl. simp. 1lb., resinæ fl. ℥vj; used to roll up limbs with old ulcers.

CEPHALIC PLASTER, *Empl. cephalicum*, *E. picis Burgundicæ*. Picis Burgund. lb. ij, labdani lb. j, resinæ fl., ceræ fl. ana ℥iv, ol. ℥j.

EMPL. PICIS COMPOSITUM. Picis aridæ, P. L. 1809, lb. ij, thuris lb. j, resinæ fl., ceræ fl. ana ℥iv, ol. nuc. mosch. expr. ℥j.

Empl. p. comp. P. L. 1824. To the preceding add ol. oliv. - aq. ana ℥ij.—2. Pic. Burg. 6lb., ceræ fl. 3lb., resinæ fl. 8lb., axung. porc. 7lb., tereb. comm., ol. palmæ, ol. lini, ana 1lb.; rubefacient, stimulant; used in headach, applied to the temples or forehead.

EMPL. E CYMINO, *E. cumini*, P. L. 1809. Pic. Burg. lb. iij, sem. cymini, sem. carui, bacc. lauri, ceræ fl. ana ℥iij.

Empl. cumini, P. L. 1824. To the preceding add ol. olivæ, aquæ, ana ℥jss; discutient, to the stomach and belly in flatulence, also to indolent tumours.

WHITE DIACHYLON, *Diachylon simplex*, *Empl. commune*, *E. lithargyri*, P. L. *E. plumbi*. Litharg. lb. v, ol. oliv. lb. viij, water q. s. about 2 pints.

EMPL. LITHARGYRI, P. D. Litharg. lb. v, ol. oliv. lb. ix, aquæ lb. ij.

EMPL. OXIDI PLUMBI SEMIVITREI. Litharg. lb. v, ol. oliv. lb. x by weight; defensive, to keep the air from ulcers; also to repel milk in women weaning their children: has usually too little oil, and will not stick.

YELLOW DIACHYLON, *Gum diachylon*, *Diachylon cum gummi*, *Empl. commune cum gummi*. Diachyl. simpl. lb. iij, galbani col. ℥viiij, tereb. comm., thuris, ana ℥iij.

EMPL. LITHARGYRI CUM GUMMI, *E. galbani compositum*. As the former, but with only tereb. comm. ℥x.

EMPL. GALBANI. Diachyl. simpl. lb. ij, galbani lb. ss, ceræ fl. ℥iv.

EMPL. GUMMOSUM. Diachyl. simpl. lb. viij, gum. ammon., galbani, ceræ fl. ana lb. j: stimulant; used in pains and weakness of the limbs.

BLISTERING PLASTER, *Empl. epispasticum primum*. Empl. de melilot. lb. jss, cathar. ℥xij, sem. amneos ℥jss, aceti lb. ss.

EMPL. EPISPASTICUM SECUNDUM. Pic. Burgund. ℥xiij, tereb. Ven. ℥iv, canthar. ℥vj.

EMPL. VESICATORIUM. Empl. attrah. lb. ij, cantharid. lb. j, aceti lb. ss.

EMPL. CANTHARIDIS, P. L. 1809. Empl. ceræ lb. ij, cantharid. lb. j, adip. suillæ lb. ss.

Empl. lyttæ. Empl. ceræ lb. jss, cantharid., adip. ppæ. ana lb. j.

Empl. cantharidis, P. L. Empl. ceræ lb. jss; adip. ppæ. lb. ss, canthar. lb. j.

Empl. cantharidis, P. D. Ceræ fl., sevi ovilli, cantharid. ana lb. j, resinæ fl. ℥iv.

Empl. meloes vesicatorii. Sevi ovilli, ceræ fl., resinæ, cantharid. ana lb. j.

Empl. meloes vesicatorii compositum. Tereb. Venetæ ℥xviiij, picis Burgund., cantharid. ana ℥xiij, ceræ fl. ℥iv, æruginis ℥ij, sem. sinapeos alb., piper. nigri, ana ℥j.—The resins and fats are first melted, and when nearly cold, the powdered flies are stirred in; ought to be softer than the other plasters, that it may be spread by the thumb: used to raise blisters; but as only the flies next the surface can act, it is generally necessary to sprinkle powdered flies on the face of it to secure its action, so that the plaster itself is a mere waste of flies, as they may be spread with equal effect upon basilicon, or warmed melilot plaster.

EMPL. EUPHORBII. Empl. picis comp. ℥iv, euphorbii ℥ss; to bring encysted tumours to suppuration.

EMPL. SALIS AMMONIACI. Diachyl. simpl. ℥ij, sapon. albi ℥j, sal. ammon. ℥ss; for white swellings.

DIACHYLON COMPOSITUM, *Empl. e mucilagibus.* Gum. ammon. lb. ss, tereb. comm. ℥ij; melt, add ceræ fl. ℥xl. previously melted with ol. mucilaginum ℥viiij, and still fluid.

FLOWER OF OINTMENTS, *Empl. flos unguentorum dictum.* Resinæ fl., tereb. comm., ceræ fl., sevi ovilli, ana lb. ss, olibani ℥iv, tereb. Chiæ ℥ijss, myrrhæ, mastiches, ana ℥j, camphoræ ℥ij, vini albi lb. jss; boil together to a plaster.—2. Resinæ fl. 16lb., ceræ fl., sevi, ana 6lb., picis Burgund. 2lb.; suppurative, warm.

STRENGTHENING PLASTER, *Empl. roborans, P. L. E. thuris, P. L.* Diachyl. simpl. lb. ij, gum thuris lb. ss, sang. draconis ℥iiij.

2. Diachyl. simp. 28lb., gum. thuris 8lb., boli comm. ppæ. 1lb.; astringent, strengthening; used as a mechanical support to the muscles, by public dancers.

Empl. thuris, P. D. For sang. drac. use crocus Martis.

EMPL. OXIDI FERRI RUBRI, *E. roborans*, P. E. Diachyl. simpl. ʒxxvj, resinæ fl. ʒvj, ceræ fl., ol. oliv. ana ʒiij, colcotharis ʒviij.

MERCURIAL PLASTER, *Empl. mercuriale*. Argent. vivi ʒviij, styr. liquidæ ʒjss, tereb. Venet. ʒj; grind together, melt diachyl. simpl. lb. j, with gum ammoniac lb. jss and vitrioli albi ʒss: pour this into the mortar, and mix all together.

EMPL. COMMUNE CUM MERCURIO, *E. lithargyri cum hydrargyro*, *E. hydrargyri*, P. L. Diachyl. simpl. lb. j, argent. vivi ʒiij, balsami sulph. simpl. ʒj, or q. s.

2. Diachyl. simpl. 24lb., argent. vivi 3lb., ung. mercur. fortioris q. s. to divide the quicksilver; discutient: used to indolent tumours.

EMPL. HYDRARGYRI, P. E. Diachyl. simpl. lb. iv, argent. vivi lb. iij, ol. oliv., resinæ fl. ana lb. j.

EMPL. DE MINIO. Minii ʒix, ol. rosat. lb. jss, aceti ʒvj.

Empl. e minio. Minii lb. ijss, ol. oliv. lb. iiij.

Empl. e minio fuscum. Ol. oliv. 2ndi. 24lb., minii 14lb., resinæ nig. 2lb.—2. Boil the red kind until it becomes brown.

OXYCROCEUM, *Empl. oxycroceum*. Picis nigræ, resinæ nig., ceræ fl. ana ʒiv, tereb. Chiæ, galbani, gum. ammon., myrrhæ, olibani, mastiches, ana ʒj ʒiij, croci ʒijss.

2. Picis Burg. comm. 4lb., picis nig. 7lb., resinæ fl. 6lb., tereb. Venet. 3lb., tereb. comm. 2lb., sang. dracon. 8 oz.; warm, discutient.

SOAP PLASTER, *Empl. de sapone*. Ol. comm. lb. ij, minii lb. j, sapon. Venet. lb. ss.

EMPL. E SAPONE, *E. saponis*, P. L. et D. Diachyl. simpl. lb. iij, sap. Ven. lb. ss.

2. Diachyl. simpl. 12lb., sapon. alb. 1lb.: discutient, to indolent tumours, also to defend the skin from the contact of air, clothes, or bandages.

EMPL. SAPONIS, P. E. Empl. gummosi lb. ij, diachyl. simpl. lb. iiij, sap. Ven. lb. j.

PARACELSD'S PLASTER, *Empl. stipticum*. Ol. oliv. ʒvj, ceræ fl. ʒjss, litharg. ʒivss, gum. ammon., bdellii, ana ʒss, galbani ʒvj, opoponacis, ol. laurini, lap. calamin., aristol. longæ, aristol. rot., myrrhæ, thuris, ana ʒij, tereb. Chiæ ʒj.

2. Diachyl. simpl. 28lb., diachyl. c. gum. 2lb., canel. albæ, gum. thuris, ana 1lb. 8 oz.

STOMACH PLASTER, *Empl. stomachicum, E. labdani*. Labdani ℥iij, thuris ℥j, cinnam., ol. macis, ana ℥ss, ol. menthæ ℥j.

2. Labdani 1lb., ceræ fl. 10lb., ol. palmæ 8lb., resinæ nig. 5lb., picis Burg. 4lb., ol. macis per. expr. 2 oz., ol. carui ℥iv, ol. menthæ vulg. ℥jss.

EMPL. OPII, P. L. 1809. Diachyl. simpl. lb. j, thuris ℥iij, opii duri ℥ss.

Empl. opii, P. L. 1824. To the preceding add. aq. ℥viiij; anodyne, in rheumatism, and local pains.

EMPL. AROMATICUM. Thuris ℥iij, ceræ fl. ℥ss, cinnam. ℥vj, ol. pimentæ, ess. limon. ana ℥ij; applied to the stomach in indigestion.

EMPL. ASSÆ FÆTIDÆ. Diach. simpl., assæ fœtidæ, ana lb. ij, galbani, ceræ fl. ana lb. j; applied to the navel in flatulence and hysterics.

EMPL. CALEFACIENS. *Empl. cantharidis*, P. D. lb. j, picis Burgund. lb. vij; stimulant, more active than Burgundy pitch alone, and yet seldom raises a blister.

ISSUE PEAS, *Pisa pro fonticulis*. Ceræ fl. 1lb., rad. curcumæ 8 oz., rad. irid. Flor. 4 oz., tereb. Ven. q. s.; make into peas.—2. Ceræ fl. 6 oz., rad. irid. Flor. 2 oz., vermilion 4 oz., tereb. Ven. q. s.; form into peas.—3. Ceræ fl. 6 oz., ærig. æris, rad. helleb. albi, ana 2 oz., cantharidum 1 oz., rad. irid. Flor. 1½ oz., tereb. Ven. q. s.; this last is caustic, and will open issues itself; the others are used to put into issues that begin to close up, to keep them open longer.

FACTITIOUS BEES' WAX, *Cera flava factitia*. Res. flav. 8lb., sevi ovill. 4lb., pulv. curcumæ 8 oz.; melt and strain; when cold rub the cake with a little hair powder.

SANGUIS DRACONIS FACTITIUS. Resinæ flav. 4lb., ol. olivæ 8 oz.: melt, add Venetian red and ground red sanders, of each 1lb.

LABDANUM FACTITIUM. Ceræ flav., adip. suil. ana ℥vj, eboris usti nigri ℥iv.

RESINE. Perrosin, or galipot, 1 cwt., brown rosin 3 cwt., melt together, strain through straw, and pour it while hot into cold water.

BRA GRAS. Tar, brown rosin, poix grasse melted together.

RESINE DE BOUTIQUE. Perrosin, or galipot, melt with only a small quantity of brown rosin, strain into cold water: a finer article than the common resine.

FOR VETERINARY MEDICINE.

MELILOT PLASTER, *Empl. de meliloto simplex*. Resinæ fl. lb.

vij, ceræ fl. lb. iv, sevi ovilli lb. ij, meliloti viridis, cut very small, lb. v; melt, keep on the fire till the herb is crisp, strain.

Resinæ fl. 28lb., ceræ fl. 4lb., sevi meliloti 10lb.: stimulant; used in dressing blisters, but irritates more than basilicon; the strong smell of the melilot is disliked by most, but is required by farriers and some private practitioners.

EMPL. ATTRAHENS. Resinæ fl., ceræ fl. ana lb. ij, sevi ovilli lb. j.—*Empl. ceræ.* Ceræ fl., sevi ovilli, ana lb. ij, resinæ fl. lb. j.

EMPL. SIMPLEX, *E. cereum.* Ceræ fl. lb. ij, sevi ovilli, resinæ fl. ana lb. ij.

PERFUMERY.

Roll pomatum. Suet 5lb., white wax 8 oz., sperma ceti 2 oz., ol. lavand., ess. Bergam. ana ʒiv.—2. Mutton suet 3lb., white wax 8 oz., ess. limon. q. p.—3. Suet 14lb., wax 4lb., scent 8 oz., benjamin powdered half an oz.

Hard Mareschal pomatum. White wax 2lb., suet 6½lb., scent 4½ oz., Mareschal powder 6 oz.

USED IN THE ARTS.

Oil-colour cakes. Grind the colours first with oil of turpentine, and a varnish made of gum mastich in powder 4 oz., dissolved without heat in a pint of oil of turpentine; let them dry, then heat a grinding stone, by putting a charcoal fire under it, grind the colours upon it, and add an ointment made by adding melted spermaceti 3lb. to a pint of poppy oil, take a piece of the proper size, make it into a ball, put this into a mould and press it. When these cakes are used, rub them down with poppy oil, oil of turpentine, or any other convenient vehicle.

Furniture balls. Ol. lini 1 pint, rad. anchusæ 2 oz., heat together, strain, add ceræ fl. 18., resinæ fl. 2 oz.

Red sealing wax. Gum lac 2lb., vermilion 4 oz., ol. tereb., ol. olive, ana 3 oz.; roll in cakes, and polish with a rag till quite cold.—2. Resinæ fl. 6lb., shell lac 2lb., tereb. Venet. 2lb., bole 8 oz.

Black sealing wax. As the red, using lamp black instead of vermilion, the coarsest lac and rough turpentine.

French sealing wax. Shell lac 2lb., Ven. turp. 1lb., Chinese vermilion 3lb., melt, and form into sticks 12 or 24 to the lb.

Gold sealing wax. To sealing wax melted, and beginning to grow solid, stir in gold colour talc.

Marbled sealing wax. Melt each colour in a separate vessel, and just as they begin to grow solid mix together.

Common sealing wax. Brown rosin 19 oz., bees' wax 1 oz., melt together.

Soft sealing wax. Bees' wax 4lb., Venice turpentine 1lb., levig. bole suff. to give the requisite colour.

Green soft wax. Colour with ppd. verdigris instead of bole: both are used for sealing official papers, and as a cement.

Wax lute. Bees' wax lb. j, melt and add linseed oil sufficient to render it pliable: used as a cement which can be easily removed.

Seal engraver's cement. Common rosin and brick dust; it grows harder every time it is melted, but always remains inferior to Botany Bay cement.

Botany Bay cement. Yellow gum and brick dust of each p. æq., used to cement china ware.

Gilders' wax. Ceræ fl. 1lb. 8 oz., ærug. æris, vitrioli albi, ana 8 oz., colcothar. 2lb. 12 oz.; the dry species must be powdered very fine: borac. 4 oz. may be added.—2. Ceræ fl. 15lb., colcothar. 7lb., ærug. æris, vitrioli albi, ana 3lb. 8oz., borac. 8 oz.—3. Ceræ fl., colcothar. ana 4lb., ærug. æris 2lb., borac., alum. usti, ana 2 oz.—4. Colcothar. 18lb., ceræ fl. 10lb. 8 oz., ærug. æris, vitrioli albi, ana 3lb. 8 oz.

Mummy, Mumia Egyptiaca. The mixed resinous mass with which the Egyptian corpses have been preserved: used as a good glazing colour, but it is long in drying.

Callot's hard varnish for etching. Add to the soft varnish more wax, so as to form a solid ball.

Engraver's stopping out varnish, Petit vernis. Lamp black reduced to a thick consistence with spirit of turpentine.

Black ball. Bees' wax 8 oz., tallow 1 oz., gum Arab. 1 oz., lamp black q. s.: used for blacking leather.

XIV. APPARATUS AND CHESTS.

ISSUE PLASTERS, *Sparadrapum pro fonticulis.* Ceræ fl. lb. ss, minii tereb., Chiæ, ana ʒiv, cinnab., rad. irid. Flor. ana ʒj, mosch. gr. iv; melted, spread upon lincn, polished with a moistened calendering glass rubber, and lastly cut in small squares.—2. Diachyl. simpl. lb. j, rad. irid. Flor. ʒj; spread, and polished.—3. Diachyl. simpl. 2lb., pic. Burg., sarcocollæ, ana 4 oz., tereb. comm. 1 oz.; spread and polished.

CORN PLASTERS, *Spar. viride.* Ceræ fl. 2lb., pic. Burgund. 12 oz., tereb. comm. 6 oz., ærug. ppæ. 3 oz.; spread on cloth, cut and polished.—2. Bees' wax 1 oz., rosin 2 dr., Venice turpentine, blue vitriol, of each 4 dr., arsenic ʒss; mix.

KENNEDY'S CORN PLASTER. Ceræ fl. lb. j, tereb. Ven. ʒij, ærug. æris ʒj ; put 12 bits in each box.

DEFENSIVE PLASTERS, *Spar. seu Tela Gualteri.* Ol. oliv. lb. ss, sevi ovill. ʒiv, ceræ ʒx, litharg., tereb. comm., thuris, mastiches, ana ʒij, boli Armen. ppæ. farinæ tritici, ana ʒj : pour it, while liquid, upon cloth, and spread it : used for issues, and to keep on dressings.

ADHESIVE PLASTERS, *Strapping, Spar. adhesivum.* Diachyl. 1lb., resinæ fl. 4 oz., tereb. comm. half an oz., or in summer time only ʒij ; melt, pour upon cloth, and spread it rather thick : much used by surgeons to close the lips of wounds, and retain dressings.

SPREAD DIACHYLON PLASTER, *Spar. diachyli.*

BOUGIES, *Candele probatoriæ, Cereoli simplices.* Catgut, of different thicknesses, dipped in emplastr. hydrargyri, and rolled up smooth upon a slab.—2. Pieces of old linen about a foot long, wide at one end, and tapering to the other, dipped in emplastr. hydrargyri, emplastr. saponis, or diachyl. simpl. and rolled up while the plaster is yet warm, upon a heated slab.

ELASTIC GUM BOUGIES. Catgut dipped repeatedly in a solution of elastic gum or Indian rubber, in ether or naphtha, until a sufficient thickness of gum is deposited upon the catgut.

WHITE BOUGIES. Ceræ fl. lb. j, sperm. ceti ʒiij, cerussæ acetat. ʒv, spread upon cloth, cut in slips, and roll the spread side outwards.

BELL'S BOUGIES. Empl. litharg. ʒiv, cer. fl. ʒjss, ol. olivæ ʒiij.

ELASTIC GUM CATHETERS. A bougie, made of fine catgut, very thickly coated with wax, bent to the proper curve, is dipped repeatedly in the ethereal solution of elastic gum, until a sufficient thickness of gum is deposited upon the bougie : it is then dried perfectly in a warm room or stove ; and finally boiled in water to melt out the wax and allow the catgut to be withdrawn.

2. A wire bent to the proper curve is wrapped round spirally, the turns overlapping each other, with a thin riband of elastic gum, whose surface has been softened by dipping in boiling water, or still better in ether, or in a solution of camphire in spirit of nitre to which some spirit of wine has been added ; over this is wound a silk riband, and over that another worm of packthread to bind down the whole : when the gum is judged to be dry enough, the packthread and riband are removed, the catheter dipped for a moment in boiling water to expand it, and allow the wire to be withdrawn, and one or two holes are then made at the close end.

3. A fine tissue of silk is wove upon a wire properly bent ; and

the wire thus clothed is dipped in the ethereal solution of elastic gum, and treated as in the first method ; when properly covered and dried the wire is withdrawn, and the apertures at the closed end made.

EMETIC CUPS, *Antimonial cups.* Cast from regulus of antimony in a mould.—2. Cast from regulus Jovis ; is easier made and less brittle : used to prepare emetic wine, by leaving wine in it for 12 hours.

CHINESE PURGING CUP. Made of risigallum, or red arsenic ; wine is left in them all night, and drank in the morning as a purge.

ANODYNE NECKLACES. Are formed of the roots of hyoscyamus, Job's tears, allspice steeped in brandy, jumble beads, or elk's hoof, to suit the fancies of the prescribers ; used to procure easy dentition in children, and sleep in fevers.

APPENSA. Root of vervain hung round the neck by a yard of white satin riband for scrofula ; but the usual medicines must be exhibited during the same period.—2. A root of the peony suspended to the neck in epilepsy ; its use to be accompanied with that of the most active cathartics.—3. Magnes arsenicalis, or camphire, hung to the neck so as to reach the pit of the stomach, to guard against contagion, act probably by inspiring courage.

SPONGE TENTS, *Turundæ intumescentes.* Soft sponge is dipped in melted wax, and squeezed in a press while warm, when cold it is taken out, and cut into the required form ; used to dilate fistulous ulcers by its expanding force when softened by warmth and moisture.

VACCINE MATTER. Collected either upon lancets, or by opening the pustule, and applying a small glass ball and tube (like those called by the boys in London candle pops, or fire pops) to the opening, expelling part of the air in the ball by bringing a lighted taper near it, then withdrawing the taper the matter is drawn into the ball, in which it may be sealed up hermetically or cemented, and thus kept for a length of time ; used lately for an absolute preventive of the small pox, but now with a view of diminishing the susceptibility of acquiring that disease, and to render it milder if required.

SMALL POX MATTER. Collected from the pustules upon lancets, or the scales of the pustules are preserved ; used to communicate the disease under favourable circumstances, instead of hazarding its being acquired when circumstances are unfavourable.

COURT PLASTER, *Sticking plaster.* Black silk is strained and brushed over with a solution of isinglass 1 oz., in proof spirit 12 oz., to which tinct. benz. 2 oz. is added : when dry this is repeated

five times more, after which, two coats are given it of a solution of tereb. Chia 4 oz., in tinct. benz. 6 oz., which renders it less liable to crack; but some finish it with a simple tincture of black bals. of Peru.—2. Isinglass 4 oz., tinct. benz. comp. 1 oz., water 2 oz.—3. Ichthyoc. finely shred, benzoin, styr. bals. ana \bar{z} j, S. V. R. \bar{z} vij; dissolve, and while warm spread over the strained silk three or four times: if it become too thick add a little S. V. R.—4. Mucil. g. tragac. \bar{z} ij, Bals. Peruv. \bar{z} j; mix, and spread as before.—5. Instead of black silk, spread the composition upon goldbeaters' skins.

BLEACHED SPONGE, *Spongia dealbata*. Soak the sponge in very dilute muriatic acid to get rid of any chalky matter it may contain, then in cold water for five or six days, changing the water frequently, and squeezing the sponge well each time. Soak it in sulphurous acid for a week, changing the acid frequently, wash it well, and scent it with rose water or orange flower.

SPANISH WOOL, *Bezetta rubra, B. di Levante*. Separate the colouring matter from safflower, as in making rouge; using white crape to take the colour from the second solution in subcarbonate of soda water: used to colour the cheeks by rubbing the wool upon them.

FOR THE KITCHEN.

Claret rags, Tournesol en drapeaux, Bezetta cœrulea. Linen coloured with Auvergne archel: used to colour jellies and confectionary.

Common claret rags. Linen dipped in juice of blood-red grapes, or in juice of mulberries, or in lees of red and claret wine; exported from France: used to colour the rind of Dutch cheeses.

FOR USE IN THE ARTS.

Litmus paper;—Turmeric paper; Reddened litmus paper;—Perfumed cherry juice paper;—Mallow flower paper;—Elderberry paper;—Elderberry paper altered by ammonia;—Blue litmus paper;—Brazil wood paper;—Brazil wood paper altered by alkalies;—Juice of buckthorn paper. Are all made by staining paper with the infusion of the several substances.

Paper stained with alcoholic extract of the yellow powder at the bottom of dahlia petals;—Acetate of lead paper;—Subacetate of lead paper;—Proto-sulphate of iron paper. Are made by staining paper with the solutions of the several substances in water. All of these are used as tests for discovering acids, alkalies, sulphur and other ingredients in compounds, or for ascertaining the point of neutralization in compounding acids with alkalies or other bases: those of litmus, litmus reddened, and turmeric, are the most in use.

Tracing paper. Nut oil, oil of turpentine, of each half a pint ; rub the paper with this oil, and dry it immediately by rubbing it with wheat flour ; this may be used to copy drawings or writings as soon as made ; if washed over with ox gall it will bear being written upon with ink.

Storm glass. Camphire ʒij, saltpetre ʒjss, sal ammoniac ʒss, S. V. R. ʒij ; dissolve, keep in a bottle or tube covered with a bladder : used to foretell changes of weather.

Lead tree. Sugar of lead ʒvj, distilled or rain water 2 pints ; dissolve, and hang in it, by a thread, a small piece of zinc.

Tin tree. Muriate of tin ʒijj, nitric acid 10 drops, distilled water about 2 pints ; mix, and hang in it a small piece of zinc.

Phosphorus bottles. Phosphorus ʒij, lime ʒj, mixed together, put into a loosely stopped phial, and heat it before the fire, or in a ladle of sand, for about half an hour.—2. Phosphorus ʒj, cera alba gr. xv, put it into a bottle under water, and melt them together, let the water cool, and as it begins to grow solid, turn the bottle round, that the sides may be coated, then pour out the water, and dry it in a cool place.

Matches for instantaneous light. Oxymuriate of potash, flowers of sulphur, of each ʒss, vermilion gr. ij, oil of turpentine q. s. to make a paste, with which coat the ends of slips of wood, previously dipped in oil of turpentine and dried ; when these matches are plunged into oil of vitriol and immediately withdrawn, they take fire instantaneously. To prevent the oil of vitriol from spilling, if the bottle should accidentally fall on one side, pounded asbestos or sand is put into the bottle to soak up the acid.

2. Oxymuriate of potash gr. ix, sugar gr. ij, flowers of sulphur gr. ij, vermilion gr. j, wheat flour gr. ij, spirit of wine q. s. ; the wood to be previously primed with camphire dissolved in spirit of wine.

Glue wafers, Medallion wafers. Colour Salisbury glue by means of Brasil wood, turmeric, or the like : fill up the hollow part of a seal with gum water mixed with any coloured powder, leaving the flat part clear ; then pour as much of the melted coloured glue on the seal as will lie upon it, and let it dry in a gentle heat ; when used, wet the paper where the wafer is to be applied, and place the back of the wafer upon the wet paper.

Waxed paper. Cartridge paper placed on a hot plate, and rubbed with bees' wax : used to form steam pipes, gas pipes, or to close the joining of vessels by merely wrapping a slip of it round them, and tying it down with twine.

MEDICINE CHESTS.

Medicine chests for ships that carry a surgeon. Some idea of what ought to be shipped for a voyage may be formed from the following lists, which the physician of Greenwich Hospital, Dr. Blane, judges necessary for the service of 100 men for 12 months* ; and by which the navy chests are fitted proportionally.

1. *Pharmaceutic articles.* Cort. Peruv. 10lb., if for a warm climate 20lb.—Glauber's or Epsom salt 10lb. [15lb.]—senna 2lb. [4lb.]—ipecac. 4 oz.—tartar emetic $1\frac{1}{2}$ oz.—calomel $2\frac{1}{2}$ oz.—opium 1 oz.—aloes half an oz.—gum ammoniac 2 oz.—bals. Copaibæ 3 oz.—cantharides 1 oz.—capsicum 3 oz.—tinct. benz. comp. 4 oz.—camphire 3 oz.—castor $1\frac{1}{2}$ oz.—canomile fl. or hops 2 lb.—cinnamon 1 oz.—chalk ppd. or oyster shells 6 oz.—conserve of roses 8 oz.—confectio cardiaca 2 oz.—extract. cathart. half an oz. [3 oz.]—extract. conii 3 oz.—extract hæmatoxyli 1 oz.—gentian root 5 oz.—ginger 3 oz.—gum Arabic 4 oz.—gum guaiacum 3 oz.—jalap $1\frac{1}{2}$ oz. [$2\frac{1}{2}$ oz.]—laudanum (tinct. op.) 4 oz.—linseed 1lb.—magnesia (subcarbonate) 6 oz.—manna 8 oz.—mustard seed whole 8 oz.—myrrh 4 oz.—quicksilver 2 oz.—corrosive sublimate 1 oz.—sal niri 8 oz.—almond oil 1 pint—castor oil 8 oz. [2lb.]—linseed oil 3 pints—oleum menthæ 1 oz.—Jamaica pepper 4 oz.—quassia 8 oz.—volatile salts 2 oz. [1lb.]—salt Martis half an oz.—kali ppd. 10 oz.—Venice soap 8 oz.—sarsaparilla 3lb.—Virginia snake root 4 oz.—spermaceti 4 oz.—spirit of wine 1 pint—spirit of vitriol 8 oz.—ammoniac acetate, or materials for preparing it, 2 pints—oil of turpentine 4 oz. [4lb.]—dried squills half an oz.—flowers of sulphur 1 oz. [1lb.]—golden sulphur of antimony half an oz.—cream of tartar 1lb. [3lb.]—vinegar 6 pints—white vitriol 1 oz.—wormwood 1lb.—flowers of zinc 3ij.

2. *Surgical applications.* Simple cerate 6lb.—spermaceti ointment 6lb.—red precipitate 1lb.—blue vitriol 8 oz.—blister plaster 6lb.—extr. Saturni 4lb.—sugar of lead 4lb.—cantharides in powder 1lb.—strapping, lint, tow, rags, at discretion.

3. *Dietetic articles.* Barley 3 cwt.—eggs greased and packed in salt 20 doz.—extract of spruce 12lb.—lemon juice clarified and rum added to make it keep 5 gall. [10 gall.]—raisins 50lb.—rice 2 cwt.—coarse sugar 2 cwt.—sago 20lb.—salep powder 10lb.—portable soup 50lb.—tamarinds 10lb.—white wine 300 gall.—red wine 100 gall.

Medicine chests for plantation service. Dancer, in his Medical Assistant, gives the following list of medicines as necessary, along with indigenous remedies, for 100 negroes for a year. Aloes 8 oz.

* The quantities put within brackets are those which are recommended by the Editor of this Edition.

—alum 8 oz.—Peruvian bark 4lb.—balsam Copaibæ 8 oz.—catharides 8 oz.—calomel 1 oz.—camphire 3 oz. [6 oz.]—catechu 1lb., [2 lb.]—camomile flowers 1lb.—elixir of vitriol 8 oz.—paregoric elixir 8 oz.—extr. cathart. half an oz.—flowers of sulphur 1lb.—flowers of zinc 1 oz.—gamboge 1 oz.—gum ammoniac 4 oz.—gum Arabic 8 oz.—ippecacuana 4 oz.—iron filings ppd. 2lb.—jalap 4 oz.—linseed 2lb.—liquorice 8 oz.—magnesia alba 4 oz.—mezereon 4 oz.—myrrh 4 oz.—sal nitri 4 oz.—spirit of nitre 4 oz.—opium 4 oz.—oil of anise seed 2 oz.—olive oil 4 pints—oil of peppermint 1 oz.—oil of turpentine 1lb.—yellow basilicon 1lb.—simple cerate 1lb.—mercurial ointment 4 oz.—gum plaster 8 oz.—mercurial plaster 4 oz.—sumach 2 oz.—sal ammoniac 4 oz.—Glauber's salt 10lb.—kali ppd. 8 oz.—sal Martis 2 oz.—senna 4 oz.—snake root 4 oz.—spirit of sal ammoniac 6 oz.—ammonizæ acetas 2 pints—double distilled lavender water 4 oz.—Hoffmann's anodyne liquor 4 oz.—sweet spirit of nitre 4 oz.—emetic tartar half an oz.—rhubarb 4 oz.—Strasburgh turpentine 4 oz.—vinegar 2 gall.—extractum Saturni 8 oz.—white vitriol 2 oz.—blue vitriol 4 oz.—verdigris 8 oz.—red precipitate 4 oz.—corrosive sublimate half an oz.

2. *Necessaries.*—1 large clyster syringe, 1 small ditto, 6 for injections, 4 lancets, 1 tooth instrument, 3 or 4 eye cups, 1 doz. bougies in sorts, 3 doz. phials with corks, 3 doz. pill boxes, 1 set of scales and weights, lint and tow.

Medicine chests for small ships, or families in the country.—These are usually made up to some book of directions, of which three are in general use in London, viz.—1. A Companion to the Medicine Chest, by Savory, which, being well written, is adapted for chests ordered by persons of education, for whose diseases also the medicines are selected. It were to be wished that the cabinet-makers would adapt the bottles, &c. to this book. By a singular error, the words laudanum and opium are throughout used as synonymous to each other, while at the same time the tincture of opium is probably meant by both.—2. Directions for the Use, &c. published by Shaw, the druggists' printer. These directions and medicines are principally intended for the diseases of the lower classes, hence this is the book by which druggists generally make up medicine chests for small ships which do not carry a surgeon, unless they have books of their own, as is the case with most of the druggists in sea ports, or the eastern part of London, because Shaw's Directions require the generality of the medicines ordered to be made up when wanted from the different simple articles contained in the chest, whereas sea commanders prefer a chest of medicines ready prepared for use, and which at most require only to be weighed or measured, and even that operation not to require great accuracy, previous to their exhibition.—Among the many books of this kind I have found in the chests brought to me to

refit, most of which are copies, with slight variations of each other, one appeared far superior to the rest. It was written by Lot Trip, and published by Hull and Browne, No. 145, Pearl Street, of what town or city is not mentioned ; but I understand they are store-keepers at New York, and belong to the Society of Friends. It had this striking advantage, that there was given at the end the composition of the several compound medicines used in it, so that it could be refitted, as at first, at any port ; and if a medical man happened to be a passenger on board, he could use the medicines with more confidence than if he had to guess at their composition from their appearance, and the directions given for their use.—3. The Family Medicine Chest Book, published by Cox, mostly used by country druggists.

Besides these three books, which contain what may be called sets of medicines for ordinary cases until regular assistance can be obtained, there is a fourth, called An Index to the Portable Dispensary, published by Phillips, which describes the uses and doses of the most common medicines, and is adapted for small cabinets, containing only a few articles, for which purpose it may in some cases be cut up, and used as descriptive labels.

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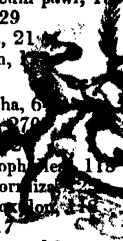
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