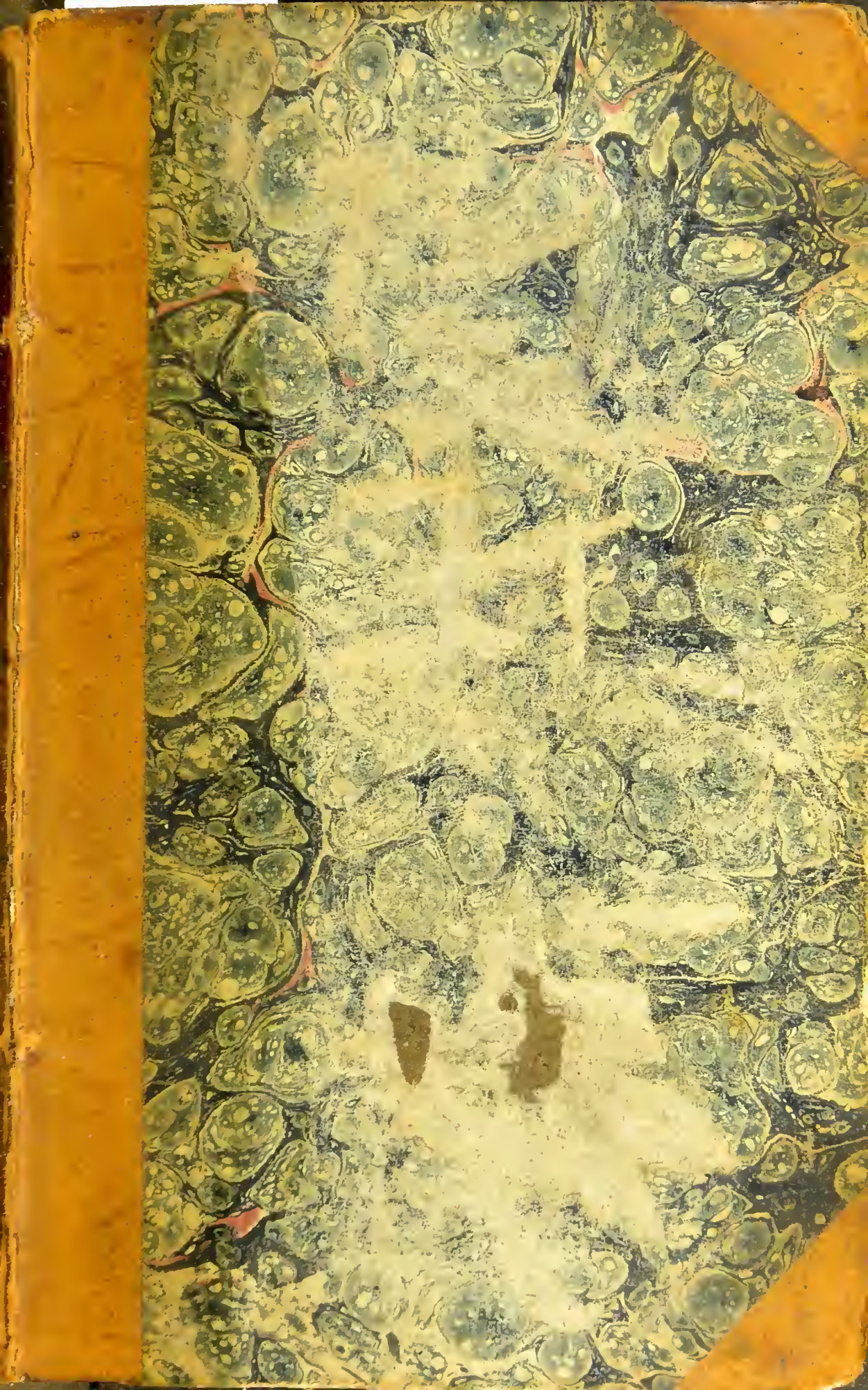

A

BOTANICAL MATERIA MEDICA,

CONSISTING OF THE

GENERIC AND SPECIFIC CHARACTERS

OF THE

PLANTS

USED IN

MEDICINE AND DIET,

WITH

SYNONYMS,

AND REFERENCES TO MEDICAL AUTHORS,

BY

JONATHAN STOKES M. D.

IN FOUR VOLUMES.

VOL. I.

LONDON,
PRINTED FOR J. JOHNSON AND
ST. PAULS CHURCHYARD.
1812.

Printed by J. Belcher and Son,
High-street, Birmingham.

TO

DR. WRIGHT.

Dear Sir

If you make use of this work in the course of your medical or botanical studies, I must beg you to attend to the following circumstances. Let us open the 1st vol. at p. 394. Each species is distinguished by a numeral. The specific character is followed by references to the authors consulted. In the citations the first numeral in roman figures expresses the number of the volume, fasciculus, section, part, or other primary division of the work, unless preceded by the letter *p.* in which case it expresses the page of the preface or introduction. The first numeral in arabic figures expresses the page of the work, but when the letter *n.* is prefixed it implies the number of the species, which in some authors are distinguished by a regular series of numbers. When *t.* is prefixed to an arabic numeral it denotes the number of the plate, but in the authors whose works contain figures cut in wood, as Brunfelsius, Fuchsius, Tragus, Matthiolus, Camerarius, Dodonaeus, Lobel, Clusius, Dalechamp, the Bauhines, Gerard, and

Parkinson, the arabic numeral refers to the page in which a figure of the plant is found, and when there is only a description it is expressly said that there is no fig.

I have stated what figures are reimpressions and copies of others, that when the reader has turned to one he may save himself the trouble of consulting those which are reimpressions or copies or the original of what he has already examined.

The figures subjoined to botanical observations refer to the numbers of a journal which I have kept ever since I began to investigate plants, my specimens having corresponding numbers affixed to them. The benefit I have experienced from this method induces me to recommend it to all students of natural history, advising them to incorporate all other observations which they may commit to writing into the same series, affixing corresponding numbers to specimens of all kinds, and to plants growing in their gardens numbers stamped on plates of lead by means of steel dies, as practised by florists. To these observations I have an index, which consisting of separate papers arranged in a book, admits of occasional additions without the labour of transcription.

The numbers subjoined to genera indicate from what species the alterations in the generic character were formed, but when such species are not to be found in the work, the name of the species is given.

I generally add where and by whom the plant or specimen was gathered. When the subject of examination is a dried plant I use the word specimen, when nothing is said the plant was examined in a recent state.

On some occasions I have been led to examine into the native place of plants. The result of such enquiries is placed after the references to botanical authors and observations upon structure, and the authorities will be found in remarks subjoined to the citations of different botanical observers.

To distinguish the medical references I have printed the first of the names used by medical authors in italic capitals, as Belladonna in p. 395 of Vol. 1st. The references which immediately follow the name in italic capitals are generally to pharmacopoeias, but in the latter part of the work, fearful lest it should swell out to too great a size, I have sometimes inserted botanical references distinguishing them from

the medical references by a hyphen, as in Sphagnum latifolium, iv. 585, where all the references following Sphagnum palustre and preceeding the hyphen are botanical.

The references which follow those to pharmacopoeias are to the writers of materia medicas and such practical authors as I have been in the habit of reading or consulting, arranged under each pharmaceutical name in alphabetical order that the name of the author whom the reader may wish to consult may be most expeditiously found. But notwithstanding this division of botanical and medical references it may be proper to advertise the reader that he will find accounts of the virtues of plants in many of the authors cited as botanists such as Dodonaeus, Clusius, Lobel, J. Bauhine, Gerard, Parkinson, Rheede, Rumphius, Ray, Gouan in his flora, Krocker, and Loureiro, and that among the medical references he will meet with accurate descriptions in Bergius's materia medica.

The numerals prefixed to the genera are repeated in the running title to afford the investigating botanist an easy reference from the synoptic tables to the body of the work.

The terms made use of are generally those of Linnaeus, or formed on his principles, but in the grasses it may be necessary to observe that what Linnaeus calls the calyx I consider as bracteae, and what he terms corolla I regard as the calyx. In describing the calyx I have also substituted the word phyllum for foliolum, confining the use of foliole to the subdivisions of leaves. The compound flowers as they are generally termed, contained in the class Syngenesia I have called anthodia, considering them as collections of flowers analogous to those of Scabiosa and Jasione. And instead of calyx communis and squamae I employ the terms involcurum and bracteae.

I make no apology for these or other deviations from common usage, holding it to be the duty of every writer who publishes, to communicate all he knows on the subject of which he treats. If convinced by others or my own reflexions that such deviations are errors I trust I shall have courage to retrace my steps.

Since I wrote the advertisement prefixed to the 2nd edition of the Botanical arrangement, my opinions respecting trivial names have almost entirely changed. Improvements in nomencla-

ture will keep pace with increasing knowledge, and where a name is susceptible of amendment, every botanist should be as ready to suggest a better as to communicate an improved specific character or description. I do not approve of altering every name which is not good, thinking it better to use the bad one till we discover one which is characteristic. In some genera the difficulty of finding good names is so great, that we must be content with their having names at all. In adopting one of two or more names given to the same plant by contemporary authors we ought always to give a preference to that which is most characteristic.

When the trivial name adopted is not that used by the author from whom the specific character was taken, a hyphen is subjoined to the trivial name, the name of the author of the specific character is added at the end of the specific character, and the name used by the author of the specific character cited at length below. *See* ii. 386. *n.* 1; iii. 133. *n.* 5. If after the name at the end of the specific character a hyphen is subjoined and a work cited, it implies that the trivial name has been adopted from the last cited author. *See* ii. 386. *n.* 1.

When I have referred a species to a distinct genus and only one species is found in that genus, I have not followed Linnaeus in endeavouring to discover a characteristic name, but have judged it more adviseable to give it a name expressive of its being the only known species, and a name which must inevitably be changed whenever another shall be referred to the same genus. *See* ii. 169.

In the course of this work I have been led to distinguish between a variety and what I have sometimes called a variation. When plants are so much alike that one entertains no doubt of their specific sameness, and yet differ in colour size or mode of growth, I am inclined to call those that assume the form or colour which is least usual a variation. When plants are so little alike that we almost begin to suspect them to be specifically different, and yet on a careful examination are not able to fix on sufficient marks of specific distinction, I call that form which is least usual a variety.

Hoping that you will resume your pen and communicate to the world in a work of your own all that you have observed on the plants and dis-

cases of the West Indies, I remain with much esteem

Dear Sir

Your obliged and sincere friend

JONATHAN STOKES.

Chesterfield 20 May, 1812.

P. S. Mr. Hunters nursery, late Messrs. Brunton and Hunters at Perry Hill between Birmingham and Hales Owen, is now at Soho near Birmingham.

ABBREVIATIONS

OF

WORDS, TITLES OF BOOKS, AND NAMES OF AUTHORS EXPLAINED.

Abb. Abbots flora bedfordiensis. 8vo. 1798.

abr. abridged.

Acost. Acosta, Christoval tractade de las drogas. 4to. 1578.

Acost. a Clus. A Costa historia aromatum, in Clus. exot. p. 253. The figures omitted.

Act. haun. Acta societatis medicae hauniensis. Tomi 2. 8vo. 1783.

Adams morb. Adams on morbid poisons. 4to 1807.

Adans. fam. Adanson familles des plantes. 2 tomes. 8vo. 1759.

Adans. voy. Adansons voyage to Senegal. 8vo. 1759.

Aik. man. Aikins manual of materia medica. 12mo. 1785.

Aitk. Aitkens midwifery. 8vo. 1786.

Ait. W. T. Delineations of exotic plants, cultivated in the Kew garden, drawn by F. Bauer and published by W. T. Aiton. fol. 1796.

All. nic. Allionii stirpium littoris et agri Nicaeensis enumeratio. 8vo. 1757.

All. ped. Allionii flora pedemontana. Tomi 3. fol. 1785.

All. rar. Allionii rariorum stirpium Pedemontii specimen. 4to 1755.

Alp. aegypt. Alpinus de plantis aegypti. 4to. 1592.

Alp. bals. Alpinus de balsamo, 4to. 1592.

Alp. cum Vesl. Alpini historia aegypti naturalis. Tomi 2. 4to. 1735.

Alp. exot. Alpinus de plantis exoticis. 4to. 1627.

Alp. med. aegypt. Alpini medicina aegyptiorum. 4to. 1745.

Alp. rhap. Alpinus de rhapontico. 4to, at the end of Alp. med. aegypt.

Alst. Alstons lectures on the materia medica. 2 vols. 4to. 1770.

Alst. hort. Alston hortus medicus. 12mo. 1740.

Alxing. fung. Alxingeri historia fungorum. 8vo.

Alxing. grat. Alxinger de gratiola. 8vo.

Amm. Amman stirpium in imperio ruthenico provenientium icones et descriptiones. 4to. 1739.

Ann. med. Annals of medicine. 8 vols. 8vo. 1796. The vols. subsequent to the 5th. sometimes quoted as lustrum 2nd.

Ann. bot. Annals of botany by Konig and J. Sims. 2 vols. 8vo. 1805.

Andr. rep. Andrews botanists repository. 4to. 1797.

Arbuth. Arbuthnot on aliments. 8vo. 1735.

Ard. anim. Arduini animadversionum botanicarum specimen. 4to. 1759; alterum. 1763.

Arist. Aristotelis opera ab J. Casaubone. fol. 1590.

Arnold on hydrophobia. 8vo. 1793.

As. res. Asiatic researches. 7 vols. 8vo. 1798.

Asso. Asso synopsis stirpium Aragoniae. 4to. 1779.

Aurel. Caelius Aurelianus de morbis acutis et chronicis. 4to. 1755.

Aubl. Aublet histoire des plantes de la Guiane francoise. 4 tomes. 4to. 1775.

Barrel. Barrelieri plantae per Galliam Hispaniam et Italiam observatae. fol. 1714.

Barrere. Barrere histoire naturelle de la France aequinoctiale. 12mo. 1741.

Barry on the wines of the ancients. 4to. 1775.

Bart. Bartons materia medica of the United States. 8vo. 1798.

Bartr. W. W. Bartrams travels through North and South Carolina Georgia and East and West Florida. 8vo. 1792.

Bast. Basteri opuscula subseciva. Tomi 2. 4to. 1762.

Batsch. Batsch elenchus fungorum. Fasc. 3. 4to. 1783.

Batt. Battara fungorum agri ariminensis historia. 4to. 1759.

Battie on madness. 8vo. 1758.

Bauh. Casp. phytop. Bauhinis Caspari, ΦΥΤΟΠΙΝΑΞ. 4to. 1596.

Bauh. Casp. pin. Bauhini Caspari, ΠΙΝΑΞ theatri botanici. 4to. 1623.

Bauh. Casp. prodr. Bauhini Caspari, prodromus theatri botanici. 4to. 1671.

Bauh. Casp. theatr. Bauhini Caspari, theatrum botanicum. fol. 1658.

Bauh. J. Bauhini, Joannis historia plantarum. Tomi 3. 1650. *a*, signifies the 1st part and *b* the 2nd part of the 1st and 3rd volumes.

Bellev. Opuscules de Belleval. 8vo. 1785.

Berg. Bergii materia medica. Tomi 2. 8vo. 1778.

Berkeley siris, on the virtues of tar water. 8vo. 1747.

Bellon. Bellonii observationes. fol. 1605, in Clus. exot.

Besl. hort. Besler, Basil. hortus eystettensis. fol. 1613.

Besl. mus. Besler, Basil et Michael musaeum. fol. 1716.

Biss. ess. Bissets medical essays and observations. 8vo. 1766.

Blackst. specim. Blackstone specimen botanicum. 12mo. 1746.

Blackst. haref. Blackstone fasciculus plantarum circa Harefield nascentium. 12mo. 1737.

Blackw. A curious herbal by Eliz. Blackwell. 2 vols. fol. 1737.

Blair pharmaco-botanologia. 4to. 1723.

Blair. ess. Blairs botanic essays. 8vo. 1720.

Blane on the diseases of seamen. 8vo. 1789.

Bligh voyage to the South seas. 4to.

Bocc. piante. Boccone museo di piante rare. 4to. 1697.

Bocc. sic. Bocconi icones et descriptiones plantarum rariorum Siciliae Melitae et Galliae. 4to. 1674.

Boerh. Boerhaave index alter plantarum quae in horto Lugduno-batavo aluntur. Tomi 2. 4to. 1720.

Boerh. (in the medical references) Boerhaave historia plantarum quae in horto academico Lugduni Batavorum crescunt. Tomi 2. 12mo. 1731.

Bolt. fil. Boltons filices britannicae. 4to. 1785.

Bolt. fung. Boltons history of fungusses. 4 vols. 4to. 1788.

Bont. Bontii historia naturalis et medicae indiae orientalis. At the end of Piso ind.

Bont. med. ind. Bontius de medicina indorum. 4to. at the end of Alp. med. aegypt.

Bory de St. Vincents voyage to the African seas, in the 2nd vol. of a collection of voyages printed by Philips. 8vo. 1805.

Bosischen garten. Leipsig. 12mo. 1738.

Bot. guide. Turner and Dillwyns botanists guide through England and Wales. 2 vols. 12mo. 1805.

Bot. arr. Botanical arrangement. 2nd ed. 3 vols. 8vo. 1787; ed. 1st 2 vols. 1776; ed. 4th 4 vols. 1801.

Bot. mag. The continuation of Curt. mag. by J. Sims, beginning at t. 505. 8vo. 1801.

Bradl. kal. Bradleys gentlemans and gardeners kalendar. 8vo. 1728.

Bradl. succ. Bradley historia plantarum succulentarum. 4to. 1716.

Breyn. cent. Breynii exoticarum plant. centuria. fol. 1678.

Breyn. ic. The figures with descriptions at the end of Breyn. prodr.

Bryn. prodr. Breynii fasciculi rariorum plantarum. 1 et 2. 4to. 1739.

Brit. herb. British herbal. 4to.

Bromf. Bromfields chirurgical observations and cases. 2 vols. 8vo. 1773.

Brought. ench. Broughton enchiridion botanicum. 12mo. 1782.

Brought. hort. Hortus Eastensis by Arthur Broughton M. D. at the end of the 1st vol. of Edwardss west indies.

Brown, J. elements of medicine by Beddoes. 2 vols. 8vo. 1795.

Brown, Rob. Prodromus florae novae hollandiae Tom. I. 8vo. 1810.

Browne, Patr. Natural history of Jamaica. fol. The letterpress is the old edit. with copies of the original plates. 1789.

Bruce. Bruces travels. 5 vols. 4to. 1790.

Brunf. herb. Brunfelsii herbarium. Tomi 3. 1539.

Brunf. ic. Brunfelsii herbarum eicones. Tomi 2. fol. 1530.

Bry. Bryants flora dietetica. 8vo. 1783.

Burm. J. afr. Rariorum africanarum plantarum decades 10. 4to. 1738.

Burm. J. zeyl. Burmanni thesaurus zeylanicus. 4to. 1737.

Burm. N. ind. Flora indica. 4to. 1768.

Burs. Burserii institutiones medicinae practicae. Tomi 4. 8vo. 1798.

Buxb. Buxbaumii plantarum minus cognitarum centuriae 5. 4to. 1728.

Camd. by Gibs. Camdens britannia by Gibson, fol. 1695. (by Gough ed. 1st I have consulted, but the communications respecting the places of growth of plants being anonymous I have not hitherto ventured to quote it.)

Cam. epit. Camerarii de plantis epitome Matthioli. 4to. 1586.

Cam. hort. Camerarii hortus medicus. 4to. 1588.

Carth. Cartheuser fundamenta materiae medicae. Tomi 4. 12mo. 1769.

Cat. Catesbys natural history of Carolina Florida and the Bahama islands. 2 vols. fol. 1731.

Cat. lond. Catalogus plantarum. A catalogue of trees shrubs plants and flowers propagated near London. fol. 1730.

Chabr. Chabraei stirpium sciagraphia. fol. 1666.

Chalm. Chalmerss account of the weather and diseases of South Carolina. 2 vols. 8vo. 1776.

Chir. rev. The medical and chirurgical review. 16 vols. 8vo. 1794.

Chir. tr. Medico-chirurgical transactions. 8vo. 1809.

Chish. Chisholm on the pestilential fever of the west indian islands. 8vo. 1795.

Chom. Abrege de l'histoire des plantes usuelles, par J. B. Chomel. 3 tomes. 12mo. 1739.

Clark, J. fev. J. Clark on fevers. 8vo. 1792.

Clark, J. long voy. J. Clark on the diseases of long voyages. 2 vols. 8vo. 1792.

Clegh. Cleghorn on the diseases of Minorca. 8vo. 1779.

Clus. app. alt. Clusii appendix altera ad rariorum plantarum historiam. At the end of the 2nd edit. of Clus. exot.

Clus. cur. Clusii curae posteriores, in Clus. exot. 2nd edit.

Clus. exot. Clusii exotica. fol. 1605.

Clus. hist. Clusii rariorum plantarum historia. fol. ed. i. 1601; ed. ii. 1633.

Clus. hisp. Clusii rariorum stirp. per hispanias observatarum historia. 12mo. 1576.

Clus. pann. Clusii rariorum stirpium per Pannoniam Austriam et vicinas quasdam provincias observatarum historia. 12mo. 1583.

Cod. med. Codex medicamentarius, seu Pharmacopoea parisiensis. 4to. 1732.

Collin observationes. Partes 6. 8vo. 1765.

Col. ecphr. Columnae εκφρασις. Partes 2. 4to. 1616.

Col. phyt. Columnae φυτοβασανος. 4to. 1592.

Comm. Casp. hort. Commelini, Casparis hortus amstelodamensis. Tomus II. fol. 1701.

Comm. Casp. prael. Commelini, Casparis praeludia. 4to. 1703.

Comm. Casp. rar. Commelini, Casparis horti amstelodamensis plantae rariores. 4to. 1706.

Comm. J. hort. Commelini, Joannis hortus amstelodamensis. Tomus I. fol. 1697.

Contrib. Contributions to medical knowledge, collected by Beddoes. 8vo. 1799.

Cook 3rd voy. A voyage to the pacific ocean in the years 1776 to 1780 by Captains Cook and King. 4 vols. 8vo. 1784.

cop. copied.

Cord Valerii Cordi annotationes, historia, &c. fol. 1561.

Corn. Cornuti canadensium plantarum aliarumque nondum editarum historia. 4to. 1635.

Coxe American dispensatory. 8vo. 1806, account from in chir. rev. xiii. 365.

Coyte hort. Coytes hortus botanicus gippovicensis. 4to. 1796.

Coyte ind. Coytes index plantarum. 8vo. 1787.

Crantz. aust. Crantzii stirpium austriacarum partes 6. 4to. 1769.

Crossf. Crossfields calendar of flora. 8vo. 1810.

Cull. Cullens lectures on the materia medica. 2 vols. 4to. 1789.

Cull. clin. Cullens clinical lectures. 8vo. 1797.

Cull. pract. Cullens first lines of the practice of physic. ed. by Reid. 2 vols. 8vo.

Culp. Culpeppers english physician. 12mo. 1741.

Cuntira de Nicotiana. 8vo. 1777.

Currie wat. Currie on water. 2 vols. 8vo. 1797.

Curt. lond. Curtiss flora londinensis. fasc. 6. fol. 1776.

Curt. mag. Curtiss botanical magazine. 8vo. 1787.

Cutl. An account of the vegetable productions naturally growing in the neighbourhood of Ipswich in New England, by Manasseh Cutler D. D. in the Memoirs of the American acad. i. 396.

Cycl. Cyclopaedia edited by Abr. Rees. D. D. 18 vols. 4to. Many of the botanical articles are by Dr. Smith, the only contributor who affixes a signature to his articles, a practice which if general would add much to the value of the work, and perhaps to that of the communications. My name was inserted in the prospectus by a deceased friend without my knowledge, but I never wrote any thing in it.

Dale. Dalei pharmacologia. 4to. 1737.

Dalech. Historia generalis plantarum. Tomi 2. fol. Tom. I. 1587. Tom. II. 1586!

Dalech. plantes. Histoire generale des plantes. Tomi 2. 1615.

Dalib. Dalibard flora parisiensis. 12mo. 1719.

Darw. Darwins zoonomia. 2 vols. 4to. 1796.

Daws. rheum. Dawson on rheumatism. 8vo. 1781.

Denm. Denmans midwifery. 2 vols. 8vo. 1788.

Dicks. Dicksoni plantarum cryptogamicarum Britanniae fasciculi 4. 4to. 1785.

Dill. giss. Dillenii catalogus plantarum circa Gissam nascentium. 8vo. 1719.

Dill. hort. Dillenii hortus elthamensis. fol. 1732.

Dill. musc. Dillenii historia muscorum. 4to. 1741.

Diosc. Dioscoridis libri 8, Gr. & Lat. a Ruellio. 12mo. 1549.

Dodart. Memoires pour servir a l'histoire des plantes par M. Dodart. fol. 1676.

Dod. flor. Dodonaei florum &c. hist. 12mo. 1569.

Dod. and *Dod. pempt.* Dodonaei stirpium historiae pemptades 6. fol. 1st ed. 1583; 2nd ed. 1616.

Dod. purg. Dodonaei purgantium historia. 12mo. 1574.

Donn. Donn hortus cantabrigiensis. ed. 2nd, 4th, 5th. 1800. 1807. 1809.

Duham. arb. Du Hamel des arbres. 2 tomes. 4to. 1755.

Duroi obs. Du Roi observationes botanicae. 4to. 1771.

Edin. journ. The Edinburgh medical and surgical journal. 8vo. 1805.

Edinb. tr. Transactions of the royal society of Edinburgh. 4to.

Edw. Bry. History of the West Indies by Bryan Edwards. 2 vols. 4to. 1794.

Edw. dis. Diseases of the human body by G. Edwards M. D. 4to.

Edw. G. A natural history of birds by G. Edwards. 4 vols. 4to. 1743.

Edw. G. glean. Gleanings of natural history. 3 vols. 1758.

Ehr. Ehret plantae et papiliones depictae. fol. 1748.

Ellis mang. Elliss description of the Mangostan and Breadfruit. 4to. 1775.

Encycl. Encyclopaedia britannica. 20 vols. 4to. 1797.

Eschenb. obs. Eschenbach observationes botanicae. 4to. 1784.

Evel. by Hunt. Evelyns silva by Hunter. 2nd ed. 2 vols. 1786.

Ferriar. Ferriars medical histories 3 vols. 8vo. 1792.

Ferriar on digitalis purpurea. 12mo. 1799.

Feuil. Journal des observations par Feuille. 3 tomes 4to. 1714.

Fl. dan. Flora danica ab Oeder Muller et Vahl. fol. 1761.

fol. leaf, the leaves being numbered in some of the earlier printed books.

Fordyce, G. fev. Fordyce, G. on fever. 6 parts. 8vo. 1794.

Fordyce, G. pract. G. Fordyces practice of physic. 8vo. 1791.

Fordyce, W. Fev. W. Fordyce on Fevers. 8vo. 1777.

Fordyce, W. fragm. Fordyce, Gul. fragmenta chirurgica et medica. 8vo. 1784.

Forsk. Forskal flora aegyptiaco-arabica. 4to. 1775.

Forst. G. austral. Georgii Forsteri florula insularum australium. 8vo. 1786.

Forst. G. esc. Georgii Forsteri plantae esculentae insularum oceani australis. 8vo. 1786.

Forst. J. amer. Forsters flora americae septentrionalis. 8vo. 1771.

Forst. J. & G. Forster, J. & G. characteres generum plantarum. 4to. 1776.

Fotherg. J. sorethr. Fothergill on sore throat. 8vo. 1754.

Fowl. T. tob. Fowler on Tobacco. 8vo. 1788.

Fowl. T. rheum. Fowler on rheumatism. 8vo. 1795.

Freem. Select specimens of British plants from the drawings of Misses Strickland. 2 numbers. fol. 1797.

Fuchs. Fuchsii historia stirpium. 12mo. 1549; fol. ed. 1542.

Gaertn. Gaertner de fructibus et seminibus plantarum. Tomi 2. 4to. 1788.

Garc. a Clus. Garcias ab Horto aromatum historia, iconibus illustrata a Clusio. 12mo. 1574; repr. in Clus. exot.

Garid. Histoire des plantes qui naissent en Provence par M. Garidel. fol. 1715.

Gataker on Solanum. 8vo. 1757.

Gent. mag. Gentlemans magazine. Vol. 1st. 1731 to the present time. 8vo.

Geoff. Geoffroy tractatus de materia medica. Tomi 3. 8vo. 1741.

Geoffr. suite. Suite de la matiere medicale de M. Geoffroy. 3 tomes 12mo. 1750.

Ger. J. Gerards historie of plants. fol. 1597.

Ger. by Johns. Gerards herball enlarged and amended by T. Johnson. fol. 1633; 2nd ed. 1636.

Ger. L. Ludovici Gerardi flora gallo-provincialis. 8vo. 1761.

Gesn. hort. Gesneri horti Germaniae, at the end of Cord.

Geuns. Vans Geuns plantarum belgii confoederati spicilegium. 8vo. 1788.

Gis. ind. Giseke index in Plukenetii opera et Dillenii historiam muscorum. 4to. 1779.

Gled. fung. Gleditsch methodus fungorum. 8vo. 1753.

Gmel. J. G. sib. Gmelin J. G. flora sibirica. Tomi 4. 4to. 1747.

Gmel. S. fuc. Gmelin historia fucorum. 4to. 1768.

Gmel. S. reise. S. G. Gmelins reise. 4to. 1774.

Gort. belg. foed. Gorteri flora VII provinciarum belgii foederati. 8vo. 1781.

Gou. hort. Gouan hort. monspeliensis. 8vo. 1762.

Gou. ill. Gouan illustrationes et observationes botanicae. fol. 1773.

Gou. monsp. Gouan flora monspeliaca. 8vo. 1765.

Graing. Grainger on west india diseases. 8vo. 1802.

Grant on fevers. 2 vols. 8vo. 1779.

Grew mus. Grews musaeum regalis societatis. fol. 1681.

Griff. hect. Griffith on hectic. 8vo. 1774.

Gron. orient. Gronovii flora orientalis. 8vo. 1755.

Gron. virg. Gronovii flora virginica. 4to. 1762; ed. 1. partes 2. 8vo. 1739. 1743.

Guett. Observations sur les plantes par M. Guettard. 2 tomes. 12mo. 1747.

Gunn. Gunneri flora norvegica. Partes 2. fol. 1766.

Hall. enum. Halleri enumeratio stirpium Helvetiae. Tomi 2. fol. 1742.

Hall. hist. Halleri historia stirpium Helvetiae. Tomi 3. fol. 1768.

Hall. opusc. Halleri opuscula botanica. 12mo. 1749.

Hamilt. Alex. midw. Hamilton, Alex. on midwifery. 8vo. 1784.

Hamilt. mad dog. Hamilton, R. on the bite of a mad dog. 8vo. 1785.

Haslam on insanity. 8vo. 1798.

Hass. Hasselquists voyages and travels in the Levant. 8vo. 1766.

Hawkesw. Hawkesworths account of voyages to the southern hemisphere. 4 vols. 8vo. 1785.

Haw. mes. Haworth observations on the genus Mesembryanthemum. 8vo. 1794.

Haw. misc. Haworth miscellanea naturalia. 8vo. 1803. at the end of Haw. lepidoptera britannica.

Hayg. fev. Haygarth on infectious fevers. 8vo. 1801.

Heb. Heberden commentarii. 8vo. 1802.

Hedw. fund. Hedwigii fundamentum historiae muscorum frondosorum. Partes 2. 4to. 1782.

Hedw. stirp. Hedwigii stirpes cryptogamicae. Fasc. 4. 1785.

Hedw. theor. Hedwigii theoria generationis et fructificationis plantarum cryptogamicarum. 4to. 1784.

Helw. Helwingii florae campana seu Pulsatilla. 4to. 1720?

Herm. (in the medical references) Hermanni cynosura materiae medicae. 4to. 1726.

Herm. hort. Hermanni hortus lugduno-batavus. 8vo. 1687.

Herm. parad. Hermanni paradisus batavus. 4to. 1698.

Herm. prodr. Hermanni paradisi batavi prodromus at the end of Schola botanica. 12mo. 1689.

Herm. zeyl. Hermanni museum zeylanicum. 8vo. 1726.

Hern. Hernandes nova plantarum et animalium mexicanarum historia. fol. 1651.

Hill hort. Hill hortus kewensis. 8vo. 1769.

Hill. syst. Hills vegetable system. fol.

Hill, James Cases in surgery. 12mo. 1772.

Hill. (in the medical references) Hills history of the materia medica. 4to. 1751.

Hillary on Barbadoes. 8vo. 1766.

Hist. ox. Morisoni plantarum historia universalis. Tomi 3. fol. 1715. The 1st vol. contains the plates; pars 2nda. fol. 1686; pars 3tia quam explevit Jacobus Bobartius. 1699.

Hoffm. Hoffmanni, Fred. opera. Tomi 6. fol. 1748.

Home, F. clin. Homes clinical experiments. 8vo. 1780.

Home, F. prin. Home principia medicinae. 8vo. 1762.

Honck. Honckeny synopsis plantarum Germaniae. Tomi 2. 8vo. 1792.

Honck. vollst. Vollstandiges verzeichniss aller gewachse teuschlandes. 8vo. 1782.

Hort. kew. and *H. K.* Hortus kewensis ed. i. 3 vols. 8vo. 1789; ed. ii. Tomi I. II. 8vo. 1810. 1811.

Host. austr. Host synopsis plantarum in Austria provinciisque adjacentibus sponte crescentium. 8vo. 1797.

Houst. rel. Reliquiae Houstonianae. 4to. 1781.

Houtt. Houttuyn nateuurlyke historie. 14vols. 8vo. 1773.

How. Phytologia britannica. 12mo. 1650.

Huds. Hudsoni flora anglica. ed. 2. Tomi 2. 8vo. 1778.

Hughes. Hughess natural history of Barbados. fol. 1750.

Hull phlegm. Hull on phlegmatia dolens. 8vo. 1800.

Hunt. J. jam. Observations on the diseases of the army in Jamaica by J. Hunter M. D. 8vo. 1788.

Hunt. J. ven. J. Hunter on the venereal disease. 4to.

Huxh. air. Huxham on the air and epidemic diseases. 8vo. 1759.

Huxh. fev. Huxham on fevers. 8vo.

imit. imitated.

impr. improved.

Jacks. Rob. fev. Jackson on fever. 8vo. 1798.

Jacks. Rob. jam. Jackson on the fevers of Jamaica. 8vo. 1791.

Jacq. amer. Jacquin stirpium americanarum historia. fol. 1763; 8vo. 1788. Figures omitted. American plants described in his other works introduced.

Jacq. austr. Jacquin flora austriaca. Tomi 5. fol. 1773.

Jacq. coll. Jacquin collectanea. Tomi 4. 4to. 1786.

Jacq. gew. Jacquin 300 americanische gewachse. 8vo. 1785.

Jacq. hort. Jacquin hortus vindobonensis. Tomi 3. fol. 1770.

Jacq. ic. Jacquin icones plantarum rariorum. Tomi 3. fol. 1781.

Jacq. misc. Jacquin miscellanea austriaca. Tomi 2. 4to. 1778.

Jacq. obs. Jacquin observationum botanicarum partes 4. fol. 1764.

Jacq. pict. Jacq. amer. an edition with coloured drawings in place of engraved figures. fol. 1781.

Jacq. vind. Jacquin enumeratio stirpium quae crescunt in agro vindobonensi. 12mo. 1762.

Journ. de med. Journal de medicine. 12mo 1787.

Juss. Jussieu, Ant. genera plantarum. 8vo. 1789.

Kaempf. am. Kaempfer amoenitatum exoticarum fasciculi 5. 4to. 1712.

Kaempf. ic. Kaempferi icones. fol. 1791. Outlines.

Kalms travels into North America. 2 vols. 8vo. 1772.

Ker recens. Recensio plantarum in repositorio botanicorum depictarum. 4to. 1801.

Kirkl. Kirklands medical surgery. 2 vols. 8vo.

Kirkl. apopl. Kirkland on apoplectic and paralytic affections. 8vo. 1792.

Kniph. Kniphof botanicon in originali. Centuriae 12. fol. 1757. Impressions of plants taken off with printers ink and coloured.

Knowles materia medica botanica. 4to. 1723.

Koelle de aconito. 8vo. 1787.

Kram. Kramer elenchus vegetabilium et animalium per Austriam inferiorem observatorum. 8vo. 1756.

Krock. Krocker flora silesiaca. Tomi 2. 8vo. 1787. 1790.

L. Linnaeus.

L. am. Linnaei amoenitates academicae. 8vo. Tom. I. Lugd. Bat. 1749. Tom. v, vi, x. ed. Schreb. The rest the original edit.

L. a Gmel. Linnaei systema naturae a Gmel. Tomi 3. in 10 vols. 8vo. 1788.

L. a Murr. Linnaei systema vegetabilium a Murray. 8vo. 1784.

L. a Reich. Linne systema plantarum, curante Reichard. Tomi 4. 8vo. 1779.

L. a Schreb. Linnaei genera plantarum a Schrebero. Tomi 2. 8vo. 1789.

L. a Willd. Linnaei species plantarum a Willdenow. Tomi 4. 8vo. 1797.

L. cliff. Linnaei hortus cliffortianus. fol. 1737.

L. gen. Linnaei genera plantarum. ed. 6ta, 8vo. 1764; ed. 2nda, 1743; ed. 5ta, 1754; a Reich. 1778.

L. lapp. Linnaei flora lapponica. 8vo. 1737; ed. a Smith 1792.

L. mant. Linnaei mantissa plantarum. The first part at the end of L. nat. ii. The conclusion in a distinct vol. intitled Linnaei mantissa altera. 8vo. 1771.

L. mat. med. Linnaei materia medica, de plantis. 8vo. 1749.

L. nat. Linnaei systema naturae. Tomi 3. 8vo. 1766.

L. phil. Linnaei philosophia botanica. 8vo. 1751.

L. sp. Linnaei species plantarum. ed. ii. Tomi 2. 8vo. 1762; ed. i. Tomi 2. 8vo. 1753.

L. suec. Linnaei flora suecica. ed. ii. 8vo. 1755; ed. i. 1745.

L. ups. Linnaei hortus upsaliensis. 8vo. 1748.

L. zeyl. Linnaei flora zeylanica. 8vo. 1748.

L. fil. dec. Linnaei filii decas plantarum rariorum. I et II. fol. 1762.

L. fil. fasc. Linnaei filii plantarum rariorum fasciculus I. fol. 1767.

L. fil. suppl. Linnaei (filii) supplementum plantarum 8vo. 1781.

Lam. Lamarck dans l'encyclopedie methodique. 4 Tomes. 4to. 1783.

Lamb. cinch. Lamberts description of the genus cinchona. 4to. 1797.

Leers. Leers flora herbornensis. ed. i. 8vo. 1775; ed. ii. 1789.

Lempr. Lempriere on the diseases of the army in Jamaica. 2 vols. 8vo. 1799.

Le Pluche. Nature delineated. 4 vols. 12mo. 1740.

Lett. Letters and essays on diseases of the West Indies. 8vo. 1778.

Letts. mem. Lettsoms memoirs of the dispensary. 8vo. 1774.

Letts. thea. Lettsom de Thea. 8vo. 1769.

Lew. Lewiss experimental history of the materia medica, edited by J. Aikin. 2 vols. 8vo. 1791.

Lew. disp. The new dispensatory. 8vo. 1770.

Lew. disp. by Dunc. The Edinburgh new dispensatory, edited by Andr. Duncan. 8vo.

Lew. disp. by Dunc. jun. The Edinburgh new dispensatory, edited by Andr. Duncan junior. 8vo. 1810.

Lew. disp. by Rother. The Edinburgh new dispensatory, edited by J. Rotheram. 8vo. 1794.

Lher. stirp. L'Heritier stirpes novae. Fasc. 6. fol. 1784. 1785.

Lightf. Lightfoots flora scotica. 2 vols. 8vo. 1777.

Lind hot clim. Lind on diseases of hot climates. 8vo. 1788.

Lind seam. Lind on the health of seamen. 8vo. 1779.

Linn. (in the medical references) Linnaei mat. med. ed. 5ta a Schrebero. 8vo. 1787 ; ed. 2da 1772 ; ed. 4ta 1782.

Lin. tr. Transactions of the linnean society. 10 vols. 4to. 1791.

Lob. adv. Penae et Lobel stirpium adversaria. Partes 2. fol. 1605.

Lob. ic. Plantarum seu stirpium icones. Long 8vo. 1581. ed. ii. 1591.

Lob. ill. Lobelii illustrationes. 4to. 1655.

Lob. obs. Plantarum seu stirpium historia Matthiae de Lobel. fol. 1576. The title at the head of the 1st page, and the running title are stirpium observationes.

Loefl. Loefling iter hispanicum. (in Swedish with descriptions of plants in Latin) 8vo. 1758. The descriptions reprinted by J. Forster at the end of his translation of Bossus travels.

Loes. Loeselii flora prussica. 4to. 1703.

Lon. Loniceri botanicon. fol. 1582.

Lond. rev. The London medical review. 8vo. 1808.

Long. History of Jamaica. 3 vols. 4to. 1774.

Lour. Lonreiro flora cochinchinensis, a Willd. Tomi 2. 8vo. 1793.

Macl. Maclean on diseases of Domingo. 8vo. 1797.

Magn. hort. Magnol hortus monspeliensis. 8vo. 1697.

Magn. monsp. Magnol botanicum monspeliense. 12mo. 1676.

Marcgr. Marcgravii historia brasiliae. fol. 1648, at the end of Pis. bras.

Mart. J. Martyn, J. historia plantarum rariorum. fol. 1728.

Mart. T. pl. cant. Martyns plantae cantabrigienses. 8vo. 1763.

Mart. T. hort. Martyn catalogus horti cantabrigiensis. 8vo. 1771.

Mart. T. rust. Martyns flora rustica. 8vo. 1792.

Marsh. Marshalls arbustrum americanum. 8vo. 1785.

Mass. Masson stapeliae novae. fol. 1796.

Matth. Matthioli commentarii. fol. 1565.

Matth. a C. B. Mathioli opera a Casparo Bauhino. fol. 1598.

May on pulmonary consumption. 8vo. 1792.

Mead mon. Mead monita et praecepta medica, a Wintringham. Tomi 2. 8vo. 1773.

Med. comment. Medical commentaries. 20 vols. 8vo. 1774. The last 10 vols. sometimes quoted as Decade the 2nd.

Med. commun. Medical communications. 2 vols. 8vo. 1784.

Med. ess. Medical essays and observations by a society in Edinburgh. 6 vols. 12mo. 1747.

Med. facts. Medical facts and observations. 8 vols. 8vo. 1791.

Med. journ. The London medical journal. 11 vols. 8vo. 1781.

Med. mus. Medical museum. 3 vols. 8vo. 1763.

Med. obs. Medical observations. 6 vols. 8vo. 1763.

Med. pap. Medical papers of the Massachusetts medical society. 8vo. 1790.

Med. rec. Medical records. 8vo. 1798.

Med. rev. The London medical review and magazine. 8 vols. 8vo. 1799.

Med. trans. Medical transactions. 3 vols. 8vo. 1772.

Mem. ac. surg. Memoirs of the academy of surgery at Paris. 2 vols. 8vo. 1750.

Mem. med. soc. Memoirs of the medical society of London. 6 vols. 8vo. 1787.

Mem. wern. Memoirs of the Wernerian natural history society. Vol. 1st. 8vo. 1811.

Mer. sur. Merian de generatione insectorum surinamensium. fol. 1726.

Merr. Merrett pinax rerum naturalium britannicarum. 12mo. 1667.

Mert. Mertens observationes medicae. 12mo. 1778.

Mill. J. ill. Millers, J. illustration of the sexual system. fol. 1777.

Mill. Jos. Millers, Jos. botanicum officinale. 8vo. 1722.

Mill. Ph. dict. Philip Millers gardeners dictionary. ed. 8th. fol. 1768.

Mill. Ph. ic. Figures of plants described in the gardeners dictionary, by Ph. Miller. 2 vols. fol. 1771.

Mich. gen. Michelii nova plantarum genera. fol. 1729.

Michaux. amer. Michaux flora boreali-americana. Tomi 2. 8vo. 1803.

Mihless ess. Medical essays and observations relating to physic and surgery abridged from the Philosophical transactions by S. Mihles. 2 vols. 8vo. 1745.

mispr. misprinted.

Miz. artif. Mizaldi nova et mira artificia comparandorum fructuum &c. 12mo. 1565.

Miz. hort. Mizaldi alexikerus, seu auxiliaris hortus. 12mo. 1565.

Monard. Monardes de simplicibus medicamentis interprete Clusio. 12mo. 1574; repr. in Clus. exot.

Monro. (in the medical references,) A treatise on medical and pharmaceutical chemistry and the materia medica by Donald Monro. 4 vols. 8vo. 1788.

Monro, Don. sold. Monro, Donald on the health of soldiers. 2 vols. 8vo. 1780.

Monro, J. madn. Monros remarks on madness. 8vo. 1758.

Mont. Monti catalogi stirpium agri bononiensis prodromus. 4to. 1719.

Mor. hort. Morison hortus blesensis auctus. 8vo. 1669.

Mor. prael. Morisoni praeludia botanica. 8vo. 1699.

Mor. umb. Morison plantarum umbelliferarum distributio nova, in the 1st vol. of Hist. ox.

Mort. pyr. Morton ΠΥΡΕΤΟΛΟΓΙΑ. Tomi 2. 8vo. 1692.

Mos. Moseley on tropical diseases. 8vo. 1789.

Mull. Mulleri flora friderichsdalina. 12mo. 1767.

Munt. phyt. Muntingii phytographia curiosa. fol. 1711.

Murr. Murray apparatus medicaminum. Tomi 6. 8vo. 1776.

Murr. J. Elements of materia medica and pharmacy by J. Murray. 2 vols. 8vo. 1804.

Murr. life Bruce. Murrays account of the life of Bruce. 4to. 1808.

Neal. Neals catalogue of plants in the Orford garden. 8vo. 1779.

New med. journ. The new London medical journal. 2 vols. 8vo. 1792.

New phys. journ. New medical and physical journal,

conducted by Drs. Bradley and Shearman. 2 vols. 8vo. 1810.

Northumb. guide. The botanists guide through the counties of Northumberland and Durham, by Winch Thornhill and Waugh 2 vols. 8vo. 1805.

Obs. My manuscript observations mentioned in the preface.

Osb. Osbecks voyage to China. 2 vols. 8vo. 1771.

Ogilby china. Nieuhoffs embassy by Ogilby. fol. 1669.

Pall. reis. Pallas reise. 3 vols. 4to. 1771.

Pall. ross. Pallas flora rossica. Tomi 2. fol. 1784.

Park. par. Paradisi (*Park-*) in (*in-*) sole (*son*) paradisus terrestris. fol. 1629.

Park. theatr. Parkinsons theatrum botanicum. fol. 1640.

Pears. R. A practical synopsis of the materia alimentaria and the materia medica. 2 vols. 8vo. 1797; ed. 2nd. 8vo.

Perc. Rob. Percival, Rob. account of Ceylon. 4to.

Perc. T. Percivals essays. 2 vols. 8vo. 1788.

Pers. fung. Persoon synopsis fungorum. 12mo. 1801.

Pet. gaz. Petiveri gazophylacium. 1702. 1709, and repr. in the 1st vol. of his opera in 2 vols. fol. 1764.

Pet. herb. A catalogue of Mr. Rays english herbal, repr. in Petiveri herbarii britannici catalogus, in the 2nd vol. of his opera. fol. 1764.

Pet. mus. Museum petiverianum. 8vo. 1695, sold as a 3rd vol. of his opera.

Ph. tr. abr. Philosophical transactions abridged by Lowthorp to 1700, 3 vols. 4to; by Jones to 1720, 2 vols; by Reid and Gray to 1732, 1 vol. by Eames and J. Martyn to 1733.

Ph. tr. abr. by Hutt. Philosophical transactions

to 1800. abridged by Drs. Hutton, Shaw, and R. Pearson. 18 vols. 4to. 1809.

Pharm. austriaco-prov. Pharmacopoea austriaco-provincialis. ed. 4ta. 8vo. 1780.

Pharm. edin. Pharmacopoeia collegii regii medicorum edinburgensis. 8vo.

Pharm. lond. Pharmacopoeia of the royal college of physicians of London translated by Healde, and edited by Dr. Latham. 8vo. 1791.

Pharm. lond. noviss. Pharmacopoeia of the London college, translated by Dr. Powel. 8vo. 1809.

Pharm. suec. Pharmacopoeia suecica. 8vo. 1789.

Phys. ess. Essays and observations physical and literary. 3 vols. 8vo. 1771.

Phys. journ. The medical and physical journal, conducted by Drs. Bradley, Willich, Batty, Adams, Fothergill and Mr. Royston. 8vo. 1799.

Pis. bras. Piso de medicina brasiliensi. fol. 1648.

Pis. ind. Piso de indiae utriusque re naturali et medica. fol. 1658.

Plenc. Plenciz opera medico-physica. Tomi 2. 8vo. 1762.

Plin. Plinii historia mundi, a Dalechampio. fol. 1599.

Pluk. alm. Plukenetii almagestum botanicum. 4to. 1696. An alphabetical enumeration of the species then known.

Pluk. amalth. Plukenetii amaltheum botanicum. 4to. 1705. A farther continuation of the almagest.

Pluk. mant. Plukenetii almagesti botanici mantissa. 4to. 1700. A continuation of the almagest.

Pluk. phyt. Pukenetii phytographia. 4to. 1691. Figures illustrative of his general catalogue, some few of which are copies. The references to the

alm. amalth. and mant. are generally transcripts from other authors.

Plum. foug. Plumier fougeres de l'Amerique. fol. 1705.

Plum. gen. Plumier nova plantarum genera. 4to. 1703.

Plum. ic. Plumier plantarum americanarum fasciculi 10, a J. Burmauno editi. fol. 1755.

Plum. pl. d'amer. Plumier descriptions des plantes de l'Amerique. fol. 1713.

Plum. sp. Plumier species plantarum, at the end of Plum. gen.

Poc. Pocockes description of the East. 2 vols. fol. 1743.

Poll. Pollich historia plantarum in palatinatu electorali nascentium. Tomi 3. 8vo. 1776.

Pott. Potts chirurgical works. 3 vols. 8vo. 1790.

Port. mem. Portal memoires sur plusieurs maladies. 2 tomes. 8vo. 1800.

Pringle. Diseases of the army. 8vo. 6th edit.

Quar. anim. Quarin animadversiones practicae in diversos morbos. 8vo. 1786.

Quar. febr. Quarin de curandis febribus. 8vo. 1781.

Quin on dropsy of the brain. 8vo. 1790.

Raii cant. Raii catalogus plantarum circa Cantabrigiam. 12mo. 1660.

Raii cat. Raii catalogus plantarum Angliae. ed. ii. 12mo. 1677; ed. i. 12mo. 1670.

Raii eur. Raii stirpium europaearum extra britannias nascentium sylloge. 8vo. 1694.

Raii ext. Raii catalogus stirpium in exteris regionibus a nobis observatarum. 8vo. 1673, at the end of Rays journ.

Raii hist. Raii historia plantarum. Tomi 3. fol. 1686.

Raii meth. Raii methodus plantarum. 8vo. 1703.

Raii syn. Raii synopsis stirpium britannicarum. ed. 3tia (by Dill.) 8vo. 1724; ed. 2nda 8vo. 1696; ed. 1ma 12mo. 1690.

Rays journ. Rays journey through the low countries Germany Italy and France. 8vo. 1673.

Rays lett. Rays letters. 8vo. 1718.

Rays rem. Rays select remains. 8vo. 1760.

Rays trav. A collection of travels and voyages published by J. Ray. 8vo. 1693.

Rauw. Rauwolffs travels translated by Staphorst in Rays coll. of trav. 8vo. 1693. No figures. These I believe are cop. in Dalech. app.

Rea. Reas flora. fol. 1665.

Recens. pl. See Ker.

Regn. La botanique par les Regnault. fol. 1774.

Reich. franc. Reichard flora moeno-francofurtana. 8vo. Partes 2. 1772.

Reid, T. phth. Reid on phthisis. 8vo. 1785.

Relh. Relhan flora cantabrigiensis. 8vo. 1785, with 3 supplements; ed. ii. 8vo. 1802. No plates. The plates of the 1st edition not reprinted, and the extracts from Lyonss manuscripts omitted.

Ren. Renealmi specimen historiae plantarum. 4to. 1611.

repr. reprinted.

Retz. obs. Retzii observationes botanicae. Fasc. 6. fol. 1779.

Retz. scand. Retzii flora scandinaviae. ed. ii. 8vo. 1795.

Rheede. Rheede hortus malabaricus. Tomi 12. fol. 1678.

Richt. Richteri observationes chirurgicae. 12mo. 1770.

River. prax. Riverii praxis medica. 12mo. 1658.

Riv. monop. Rivini ordo plantarum quae sunt flore irregulari monopetalo. Fol. 1690.

Riv. tetrap. Rivini ordo plantarum quae sunt flore irregulari tetrapetalo. Fol. 1691.

Rob. ic. 319 plates of plants engraved by Robert Bosse and Chastillon, in folio, given by Lewis XIV, XV, and XVI to distinguished botanists.

Roberts. Robertsons observations on jail fever. 8vo. 1789.

Robs. Robsons british flora. 8vo. 1777.

Rollo on diabetes. 8vo. 1798; ed. 1st 2 vols. 8vo. 1797.

Rosenst. Rosenstein on the diseases of children. 8vo. 1776.

Roth catalect. Roth catalecta botanica. Tomi 2. 8vo. 1797.

Roth germ. Roth flora germanica. Tom. I. II. IIItii pars I. 8vo. 1788. to 1800.

Rottb gram. Rottboll descriptiones et icones rariorum plantarum. fol. 1773.

Rox. Roxburghs plants of the coast of Coromandel. 2 Vols. fol. 1795.

Roy. Royen florae leydensis prodromus. 8vo. 1740.

Rudb. rel. Reliquiae Rudbeckianae. fol. 1789.

Rumph. Rumphii herbarium amboinense. Tomi 7. fol. 1750.

Rupp. ab Hall. Ruppii flora jenensis ab Hallero. 12mo. 1745.

Rush medical inquiries. 5 vols. 8vo. 1789.

Russ. oecon. Russells oeconomy of nature. 8vo. 1755.

Russ. sea wat. Russel on sea water. 12mo. 1760.

Rutty. Rutty materia medica. 4to. 1775.

Sal. R. hort. Salisbury prodromus stirpium in horto ad Chapel Allerton vigentium. 8vo. 1796.

Sal. R. ic. Salisbury icones stirpium rariorum. fol. 1791.

Sal. R. par. Paradisus Londinensis. 4to. 1806.

Sal. W. Salisburys, W. hortus paddingtonensis. 8vo. 1797.

Sauv. chefs d'oeuvres de M. de Sauvages. 2 tomes. 1770.

Sauv. nos. Sauvages nosologia. Tomi 2. 4to. 1768.

Schaeff. Schaeffer fungorum qui in Bavaria et Palatinatu circa Ratisbonam nascuntur icones. Tomi 4. 4to. 1762.

Scheuch. J. agrost. Scheuchzeri agrostographia. 4to. 1719.

Scheuch. J. Jac. itin. Scheuchzeri, J. Jac. ΟΥΡΕΣΙΦΟΙΤΗΣ helveticus, sive itinera alpina. Itin. 3. 4to. 1708.

Schmid. Schmidel icones plantarum. Tomi 2. fol. 1762. 1776.

Schoepf. Schoepf materia medica americana. 8vo. 1787.

Schreb. gras. Schreber beschreibung der graser. fol. 1774.

Schreb. ic. Schreber icones plantarum. fol. 1766.

Schreb. lips. Schreberi spicilegium florae lipsicae. 8vo. 1771; *consp.* means a catalogue of plants following p. 148.

Schrod. Schroderi pharmacopoeia medico-chymica. 8vo. 1672.

Scop. (in the medical references) Scopoli fundamenta botanica. 8vo. 1786.

Scop. carn. Scopoli flora carniolica. ed. 2. Tomi 2. 8vo. 1772.

Scop. insubr. Scopoli florae et faunae insubricae partes 3. fol. 1786.

Seb. Sebae thesaurus. Tomi 4. fol. 1734.

Seg. Seguier plantae veronenses. Tomi. 3. 8vo. 1745.

Shaw. Shaws travels. fol. 1738.

Sibb. Sibbald scotia illustrata. fol. 1684.

Sibth. ox. Sibthorp, J. flora oxoniensis. 8vo. 1794.

Sibth. prodr. Sibthorp, J. florae graecae prodromus. Tom. Ius. 8vo. 1806.

Sims, James epid. Sims on epidemic disorders. 8vo. 1776.

Sloane cat. Sloane catalogus plantarum quae in Jamaica proveniunt. 12mo. 1696.

Sloane hist. Sloanes voyage to the islands Madera Barbados Nieves St. Christophers and Jamaica. 2 Vols. fol. 1707.

Smell. thes. Thesaurus medicus, sive disputationum in academia edinensi delectus. Tomi 4. 8vo. 1778.

Smith brit. Smith flora britannica. Tomi 3. 8vo. 1800.

Smith engl. English botany. 8vo. 1790.

Smith exot. Smiths exotic botany. 2 vols. 8vo. 1804.

Smith ic. Smith plantarum icones. Fasc. 3. fol. 1789.

Smith new holl. Smiths specimen of the botany of New Holland. 4to. 1793.

Smith pict. Smith icones pictae plantarum rariorum. Fasc. 3. fol. 1790.

Smith spicil. Smith spicilegium botanicum. Fasc. 2. fol. 1791.

Smith tracts. Smiths tracts. 8vo. 1798.

Sole. Sole menthae britannicae. fol. 1798.

Sonner. nouv. guin. Sonnerat voyage a la Nouvelle Guinee. 4to. 1776.

Sonnini travels translated by Hunter. 3 vols. 8vo.

Southw. ess. Medical essays abridged from the me-

moirs of the royal academy by T. Southwell. 4 vols. 8vo. 1764.

Spal. Spalowsky de cicuta &c. 8vo. 1777.

Spielm. Spielmann institutiones materiae medicae. 8vo. 1774.

Stackh. Stackhouses nereis britannica. fol. 1795.

Stap. Theophrasti historia plantarum a Bodaeo a Stapel. fol. 1644.

Stark works. 4to. 1788.

Sterb. Sterbeck theatrum fungorum. 4to. 1675.

Still. Stillingfleets miscellaneous tracts. 8vo. 1762.

Stoll aph. Stoll aphorismi. 8vo. 1786.

Stoll med. Stoll ratio medendi. Partes 3. 8vo. 1777.

Storck cicut. Storck de cicuta libellus secundus. 8vo. 1761.

Storck colch. Storck de colchico. 8vo. 1763.

Storck flamm. Storck de flammula jovis. 8vo. 1769.

Storck medicam. Storck de novis suis medicamentis. 8vo. 1765.

Storck stram. Storck de stramonio hyosciamo aconito. 8vo. 1762.

Storck pulsat. Storck de pulsatilla. 8vo. 1771.

Swartz ic. Swartz icones plantarum. fol. 1794.

Swartz obs. Swartz observationes botanicae. 8vo. 1791.

Swartz occid. Swartz flora indiae occidentalis. Tomi 3. 8vo. 1797.

Swartz prodr. Swartz nova genera et species plantarum. 8vo. 1788.

Swert. Swertii florilegium. Tomi 2. fol. 1612.

Swiet. Swieten commentaria. Tomi 5. 4to. 1745.

Syd. Sydenham opera. 8vo. 1726.

Symes. Symess account of Ava. 3 Vols. 8vo. with a vol. of plates in 4to. 1800.

Tab. ic. Tabernaemontani eicones plantarum. Long 8vo. 1590.

Thal. Thalii sylva hercynia. 4to. 1588, (at the end of Cam. hort.)

Theophr. Theophrasti historia plantarum. Gr. et Lat. a Bodaeo a Stapel. fol. 1644.

Thomps. Botany displayed by J. Thompson. 4 numbers. 4to. 1798. The author sent me down the 1st number with my name in the title page without my having had the least concern with it.

Thornt. Thorntons new family herbal. 8vo. 1810.

Thunb. cap. Thunberg prodromus plantarum capensium. Pars 1. 8vo. 1794.

Thunb. eric. Thunberg de Erica, curante Ricardo Salisbury. 4to. 1800.

Thunb. jap. Thunberg flora japonica. 8vo. 1784.

Tilli. Tilli hortus pisanus. fol. 1723.

Tourn. (in the medical references) Traité de la matiere medicale, par M. Tournefort. 2 tomes. 12mo. 1717.

Tourn. cor. Tournefort corollarium. 4to. 1703. at the end of the inst.

Tourn. hort. Tournefort catalogus horti parisiensis in Schola botanica edente S. W. A. (Sherardo Wilhelmo Anglo?) 12mo. 1689.

Tourn. inst. Tournefort institutiones rei herbariae. Tomi 3. 4to. 1700.

Tourn. paris. Tournefort histoire des plantes qui naissent aux environs de Paris. 12mo. 1698; ed. ii. 2 tomes. 1725.

Tourn. voy. Voyage into the Levant by M. Tournefort. 2 Vols. 4to. 1718.

Tr. coll. phil. Transactions of the college of Philadelphia. 8vo. 1793.

Tr. med. soc. Transactions of the medical society of London. 8vo. 1810.

Tr. soc. impr. Transactions of a society for the improvement of medical and chirurgical knowledge. 2 vols. 8vo. 1793.

Tracts relative to botany translated (by M. Konig.) 8vo. 1785, a work meriting continuance and the encouragement of every lover of botany in Britain and the United States.

Trag. Tragi commentarii, interprete Kybero. 4to. 1552.

Trew. sel. Trew plantae selectae, quarum imagines pinxit G. D. Ehret. fol. 1750.

Triumf. obs. Triumfetti observationes. 4to. 1685.

Trott. Trotters medicina nautica. Vol. 2nd. 8vo. 1799.

Turn. W. Turners new herball. fol. 1st ed. 1551; 2nd ed. 1568.

Turn. S. Turner, S. embassy to Tibet. 4to.

Und. Underwood on diseases of children. 3 vols. 12mo.

Vahl. ecl. Vahlii eclogae americanae. fol. 1796.

Vahl. enum. Vahlii enumeratio plantarum. Tomi 2. 8vo. 1805.

Vahl. symb. Vahlii symbolae botanicae. Partes 3. fol. 1790.

Vaill. par. Vaillant botanicon parisiense. fol. 1727.

Vent. tabl. Ventenat tableau du regne vegetal. 4 tomes. 8vo. L'an 7. (1799.)

Vesl. Veslingii de plantis aegyptiis observationes. 4to. 1638.

Vill. Villars histoire des plantes de Dauphine. 3 tomes. 8vo. 1786.

Vog. Vogel historia materiae medicae. 12mo. 1764.

Vog. prael. Vogel praelectiones de cognoscendis et curandis corporis humani affectibus. 8vo. 1772.

Volck. Volckameri flora noribergensis. 4to. 1700.

Wach. Wachendorff horti Ultrajectini index. 8vo. 1747.

Wade. Wade catalogus plantarum in comitatu dublinensi inventarum. 12mo. 1794.

Walc. Walcotts flora britannica. 8vo. 1778.

Wall, J. Walls tracts. 8vo.

Wall, Mart. on opium in fevers. 8vo. 1786.

Walt. Walter flora caroliniana. 8vo. 1788.

Walth. Designatio plantarum quas hortus Waltheri complectitur. 8vo. 1735.

Warn. Plantae woodfordienses. 12mo. 1771.

Webst. Medicinae praxeos systema ex academiae edinburgenae disputationibus inauguralibus digestum a C. Webster. Tomi 3. 8vo. 1781.

Westmac. Historia vegetabilium sacra, or scripture herbal, by W. Westmacot. 12mo. 1695.

Whately on ulcers of the legs. 8vo. 1799.

White. Whites voyage to New South Wales. 4to. 1790.

Whytt dropsy of the brain. 8vo. 1768.

Wieg. obs. Weigel observationes botanicae. 4to. 1772.

Wilkes on dropsy. 8vo. 1777.

Willan cutan. Willan on cutaneous diseases. 4to. 1798.

Willan lond. Willans diseases of London. 12mo. 1801.

Willd. ber. Willdenow florae berolinensis prodromus. 8vo. 1787.

Willd. phyt. Willdenow phytographia. fol. 1794.

Willich ill. Willich illustrationes quaedam botanicae. 12mo. 1766.

Willich obs. Willich de plantis quibusdam observationes. 12mo. 1762.

Wils. brit. Wilson, J. synopsis of british plants. 8vo. 1744.

Wils. febr. Wilson, Alex. on febrile diseases. 4 vols. 8vo. 1799.

With. foxgl. Withering on the foxglove. 8vo. 1785.

With. scar. Withering on scarlet fever. 8vo. 1779.

Woodv. Woodvilles medical botany. 4 vols. 4to. 1793.

Zanich. Zanichelli istoria delle piante. fol. 1735.

Zanon. Zanoni istoria botanica. fol. 1675.

Zanon. a Mont. Zanonii rariorum stirpium historia. fol. 1742.

Zarda pharmaca vegetabilia juxta pharmacopeam austriaco provincialem. 8vo. 1782.

? subjoined to any of the botanical references expresses my doubts whether such plants furnish the article of medicine or food treated of.

?? expresses doubt amounting almost to disbelief.

CHARACTERS

OF THE

CLASSES AND ORDERS.

I. *Flowers if existing either not found, or so minute as not to be distinguishable without highly magnifying microscopes.*

Class 23. CRYPTOGAMIA. *Vol.* iv. 581.

Order 1. MONOECIA. Stamina and pistils mostly found on the same plant. *Vol.* iv. 581.

Order 2. DIOECIA. Stamina and pistils found on different plants. *Vol.* iv. 582.

Order 3. GYNOECIA. Plants producing fruit, but no flowers hitherto discovered. *Vol.* iv. 582.

II. *Flowers with stamina on one plant, and flowers with pistils on another.*

Class 22. DIOECIA. *Vol.* iv. 485.

1. *Male flowers. Stamina united.*

Order 14. SYNGENESIA. Antherae united. *Vol.* iv. 495.

Order 13. MONADELPHIA. Filaments united. *Vol.* iv. 495.

2. *Male flowers. Stamina distinct.*

Order 1. MONANDRIA. Stamen 1. *Vol.* iv. 485.

Order 2. DIANDRIA. Stamina 2. *Vol.* iv. 486.

Order 3. TRIANDRIA. Stamina 3. *Vol.* iv. 487.

Order 4. TETRANDRIA. Stamina 4. *Vol.* iv. 488.

Order 5. PENTANDRIA. Stamina 5. *Vol.* iv. 489.

Order 6. HEXANDRIA. Stamina 6. *Vol.* iv. 491.

Order 7. OCTANDRIA. Stamina 8. *Vol.* iv. 492.

Order 8. ENNEANDRIA. Stamina 9. *Vol.* iv. 492.

Order 9. DECANDRIA. Stamina 10. *Vol.* iv. 492.

Order 10. DODECANDRIA. Stamina 12 to 19. *Vol.* iv. 493.

Order 11. ICOSANDRIA. Stamina 20 and more, inserted into the inside of the calyx. *Vol.* iv. 494.

Order 12. POLYANDRIA. Stamina 20 and more, inserted into the receptacle. *Vol.* iv. 494.

3. *Female flowers.*

Order 1. MONOGYNIA. Style or stigma 1.

(1.) *Flowers naked.*

914. TROPHIS. *Style* 1. *Berry* monospermous.

948. CYCAS. *Style* 1. *Drupe.*

(2.) *Flowers bracteate.*

901. BROSIMUM. *Style* 1. *Berry* monospermous.

915. BATIS. *Stigma* 1. *Berry* tetraspermous.

903. CISSAMPELOS. *Style* 1. *Drupe* monospermous.

(3.) *Flowers nectariferous.*

905. SALIX. *Style* 1. *Capsule* unilocular. *Seeds* pappose.

(4.) *Germen superior. Flowers incomplete.*

949. TAXUS. *Stigma* 1. *Drupe* surrounded below by a pulp. *Calyx* polyphyllous. *Nectarium* very short, surrounding the base of the germen. *Obs.* 8956.

904. CECROPIA. *Stigma* 1. *Berry* monospermous. *Calyx* bifid. *Style* none. *Germen* didymous.

930. BACCAUREA. *Stigma* 1, lenticular. *Berry* trilocular and quinquelocular. *Calyx* pentaphyllous.

938. POPULUS. *Stigma* quadrifid. *Capsule* bilocular. *Seeds* pappose.

946. STIGMAROTA. *Stigma* rotate, sexfid. *Berry* unilocular, polyspermous.

939. MERCURIALIS.	*Stigma* bipartite. *Capsule* dicoccous. *Calyx* tripartite.
940. TETRANTHERA.	*Style* 1. *Berry*. *Calyx* partite. *Stigma* sublobate.
952. RUSCUS.	*Style* 1. *Berry* trilocular. *Calyx* hexaphyllous. *Nectarium* ovate.
951. MYRISTICA.	*Style* 1. *Berry* monospermous. *Seed* arillate. *Calyx* trifid.
919. HIPPOPHAE.	*Style* 1. *Berry* monospermous. *Calyx* bifid. *Germen* roundish. *Stigma* twice as long as the calyx.

(5.) *Germen superior. Flowers complete.*

913. PHOENIX.	*Style* 1. *Drupe* monospermous. *Calyx* monophyllous.
922. CANARIUM.	*Style* 1. *Drupe* monospermous. *Calyx* diphyllous.

(6.) *Germen inferior. Flowers incomplete.*

947. TREUIA.	*Capsule* tetracoccous.
909. OSYRIS.	*Berry* monospermous. *Calyx* trifid.
916. VISCUM.	*Berry* monospermous. *Calyx* tetraphyllous.
931. TAMUS.	*Berry* trilocular.

Order 2. DIGYNIA. Styles or stigmata 2.

(1.) *Germen superior. Flowers incomplete. Styles and stigmata 2.*

927. HUMULUS.	*Seed* 1. *Calyx* entire.
926. CANNABIS.	*Nut* bivalve. *Calyx* gaping on one side.
920. MYRICA.	*Berry* monospermous. *Calyx* diphyllous.
923. PICRAMNIA.	*Berry* bilocular and trilocular. *Calyx* tripartite and quinquepartite.
910. STILAGO.	*Drupe. Calyx* urceolate.

(2.) *Germen superior. Flowers incomplete. Pistils 2.*

950. EPHEDRA.	*Seeds 2.*

Order 3. TRIGYNIA. Styles or stigmata 3.

(1.) *Flowers incomplete. Germen inferior.*

944. DATISCA.	*Capsule* unilocular.
933. DIOSCOREA.	*Capsule* trilocular.

(2.) *Flowers incomplete. Germen superior.*

912. CATURUS.	*Capsule* tricoccous. *Calyx* tripartite.
911. EXCOECARIA.	*Capsule* tricoccous. *Calyx* diphyllous and triphyllous. *Stigmata* simple.

902. COMMIA.	*Capsule* tricoccous. *Calyx* triphyllous. *Stigmata* thickish.
945. FLACOURTIA.	*Berry* unilocular. *Calyx* pentaphyllous.
932. SMILAX.	*Berry* trilocular. *Calyx* hexaphyllous.
934. FIBRAUREA.	*Berries* 3, monospermous. *Petals* 6.
921. PISTACIA.	*Drupe*. *Calyx* trifid.

(3.) *Flowers complete.*

929. CLYTIA.	*Capsule* trilocular. *Calyx* pentaphyllous. *Petals* 5.
935. BRAUNEA.	*Berry* tricoccous. *Calyx* triphyllous. *Petals* 3.
942. SCHINUS.	*Berry* trilocular. *Calyx* quinquepartite. *Petals* 5.
937. LIMACIA.	*Drupe*. *Calyx* hexaphyllous. *Petals* 6.
907. JUNIPERUS.	*Drupe* trispermous. *Calyx* polyphyllous.

Order 4. TETRAGYNIA. Styles or stigmata 4.

925. SPINACIA.	*Pistil* 1. *Seed* 1.
918. GONUS.	*Pistil* 1. *Drupes* 4.
917. BRUCEA.	*Pistils* 4. *Nectarium* quadrilobate.

484. SEDUM. *Pistils petals* and *nectaria* 4. *Obs.* 2745 from S. dioicum.

295. HYDNOCARPUS. *Stigmata* 4. *Berry* unilocular.

Order 4. PENTAGYNIA. Styles or stigmata 5.

(1) *Germen superior. Flowers incomplete.*

924. ANTIDESMA. *Stigmata* 5. *Berry* monospermous.

(2) *Flowers complete. Germen superior.*

941. CARICA. *Stigmata* 5. *Berry* unilocular.

488. LYCHNIS. *Styles* 5. *Capsule* unilocular. *Petals* 5, unguiculate. *Calyx* semiquinquefid. *Obs.* 4715, from L. dioica.

943. CORIARIA. *Pistils* and *Capsules* 5.

(3) *Germen inferior. Flowers complete.*

928. FEUILLEA. *Styles* 5. *Berry* trilocular.

Order 5. HEXAGYNIA. Styles or stigmata 6.

515. STRATIOTES. *Styles* 6, bipartite. *Berry* sexlocular and octolocular. *Petals* 3. *Calyx* trifid. *Nectaria* many.

Order 6. ENNEAGYNIA. Styles or stigmata 9.

908. EMPETRUM. *Berry. Petals* 3. *Calyx* tripartite.

Order 7. POLYGYNIA. Styles or stigmata many.

900. PANDANUS. *Fruit* compound.

III. *Stamina and pistils on the same plant but not in the same flower.*

Class 21. MONOECIA. *Vol.* iv. 306.

1. *Male flowers. Stamina united.*

Order 12. SYNGENESIA. *Vol.* iv. 318.

Order 11. MONADELPHIA. *Vol.* iv. 315.

492. HERITERA. *Antherae* 5 to 10. *Calyx* quinquefid. *Corolla* none.

703. INGA. *Stamina* many. *Calyx* quinquefid. *Corolla* quinquefid.

2. *Male flowers. Stamina distinct.*

Order 1. MONANDRIA. Stamen 1. *Vol.* iv. 306.

Order 2. DIANDRIA. Stamina 2. *Vol.* iv. 308.

171. OPHIOXYLUM. *Calyx* quinquefid. *Corolla* quinquefid. *Nectarium* cylindric. *Antherae* inserted into the nectarium.

Order 3. TRIANDRIA. Stamina 3. *Vol.* iv. 308.

52*. SPINIFEX. *Bracteae* 2, uniflorous and biflorous. *Calyx* diphyllous. *See Vol.* i. 185.

844*. ANDROPOGON. *Bracteae* none. *Calyx* diphyllous. *Petal* 1, linear.

Order 4. TETRANDRIA. Stamina iv. *Vol.* iv. 310.

874. THUIA. *Flowers* bracteate. *Antherae* unilocular.

920. MYRICA. *Flowers* bracteate. *Anthereae* bilocular. *From M. Gale. Obs.* 8954.

78. GALIUM. *Calyx* none. *Corolla* quadrifid. *Obs.* 8970, from G. Cruciata.

Order 5. PENTANDRIA. Stamina 5. *Vol.* iv. 311.

238. CELTIS. *Calyx* quinquepartite and sexfid. *Corolla* none.

182. GOUANIA. *Calyx* quinquefid. *Petals* 5, inserted into the calyx.

Order 6. HEXANDRIA. Stamina 6. *Vol.* iv. 312.

341. KERNERA. *Flowers* naked. *Antherae* sessile.

850. BETULA. *Bracteae* multifid; segments incumbent, the outermost peltate. *Obs.* 8949, from B. alba.

364. VERATRUM. *Calyx* none. *Petals* 6. *Rudiment of a pistil.*

Order 7. OCTANDRIA. Stamina 8. *Vol.* iv. 313.

400. ACER. *Calyx* quinquefid and sexfid. *Petals* 5 and 6. *Nectarium* orbicular. *Stigma.* *Obs.* 8959, from A. campestre.

Order 8. DECANDRIA. Stamina 10. *Vol.* iv. 313.

468. TERMINALIA. *Calyx* quinquepartite. *Corolla* none. *Nectaria* 5.

435. FERONIA. *Calyx* quinquepartite. *Petals* 5. *Rudiment of a pistil.*

400. ACER. *Calyx* quinquefid and sexfid. *Petals* 5 and 6. *Nectarium* orbicular. *Rudiment of a pistil.* *Obs.* 8948, from A. Pseudoplatanus.

Order 9. DODECANDRIA. Stamina 12 to 19. *Vol.* iv. 314.

Order 10. POLYANDRIA. *Vol.* iv. 314.

545. ACACIA. *Calyx* quinquedentate. *Corolla* quinquefid.

555. CLUSIA. *Calyx* imbricate. *Petals* 4 to 6.

3. *Female flowers.*

Order 1. MONOGYNIA. Style or stigma 1.

(1) *Flowers naked.*

826. ZOSTERA. *Style* 1. *Capsule* monospermous.

832. ARTOCARPUS. *Style* 1. *Berry* monospermous.

893. NIPA. *Drupe.* *Stigma* a lateral furrow.

827. ARUM. *Stigma* orbicular. *Berry* polyspermous. *Obs.* 8957, from A. maculatum, but M. Jussieu says monospermous and polyspermous. Mr. Brown proposes to divide the genus into 2.

829. CALADIUM. *Stigma* umbilicate. *Berry* polyspermous. *From L. a Willd.* but Mr. Brown says "monospermous?"

829. CALLA. *Style* 1. *Berry* polyspermous.

(2) *Flowers naked, intermixed with bracteae.*

830. PLATANUS. *Style* 1, permanent. *Seed* 1.

(3) *Flowers bracteate.*

891. GNETUM.	*Stigma* trifid and quadrifid. *Drupe.*

(4) *Germen superior. Flowers incomplete.*

890. TYPHA.	*Style* 1. *Seed* 1. *Calyx* capillary.
841. CAREX.	*Style* 1. *Seed* 1. *Calyx* ampullaccous.
859. AMBROSIA.	*Style* 1. *Seed* 1. *Calyx* bidentate at the end, with 4 teeth on the outside.
838. DORSTENIA.	*Style* 1, bifid. *Seed* 1. *Calyx* quadridentate, prismatic.
102. PARIETARIA.	*Style* 1. *Seed* 1, ovate. *Calyx* quadrifid. *Stigma* round, hirsute. *Obs.* 7484.
858. VANIERIA.	*Style* 1. *Seed* 1, lenticular. *Calyx* quadripartite.
845. FICUS.	*Style* 1. *Seed* 1. *Calyx* quinquepartite.
839. ZEA.	*Style* 1. *Stigma* 1. *Seed* 1. *Calyx* diphyllous.
223. ATRIPLEX.	*Style* 1, bipartite. *Seed* 1, orbicular, compressed. *Calyx* diphyllous.
853. URTICA.	*Stigma* 1. *Seed* 1. *Calyx* tetraphyllous.
842. SCLERIA.	*Style* 1. *Nut.* *Calyx* diphyllous triphyllous and tetraphyllous.
844. TRAGIA.	*Style* 1. *Capsule* tricoccous. *Calyx* quinquepartite.

882. OMPHALEA.	*Style* 1. *Capsule* tricoccous. *Calyx* pentaphyllous.
876. PLUKENETIA.	*Style* 1. *Capsule* tetracoccous. *Petals* 4.
892. HURA.	*Style* 1. *Capsule* duodecimlocular.
864. SAGUS.	*Style* 1. *Berry* monospermous. *Calyx* triphyllous.
884. PIPALIA.	*Style* 1. *Berry* monospermous.
849. TRICARIUM.	*Stigma* 1. *Berry* trilocular. *Calyx* quadripartite. *Stigma* 1, laciniate.
834. SALISBURIA?	*Style* and *Stigma* unknown. *Drupe*. *Calyx* quadrifid.
887. HIPPOMANE.	*Style* 1. *Drupe*. *Calyx* triphyllous.
835. SPARGANIUM.	*Style* 1. *Drupe* juiceless. *Calyx* triphyllous and tetraphyllous.

(5) *Germen superior. Flowers complete.*

862. BACTRIS.	*Style* 1. *Corolla* trifid. *Drupe*.
865. CARYOTA.	*Style* 1. *Corolla* tripartite. *Berry* unilocular, dispermous.
545. ACACIA.	*Style* 1. *Legumen*. *Corolla* quinquefid. *Calyx* quinquedentate.
840. COIX.	*Style* 1. *Petals* 2. *Seed* 1. *Calyx* diphyllous.
863. ELATE.	*Style* 1. *Petals* 3. *Drupe*. *Calyx* tridentate.

555. CLUSIA. *Stigma* peltate. *Capsule* quinquelocular. *Calyx* imbricate. *Petals* 4 to 6. *Nectarium.*

846. HERNANDIA. *Style* 1. *Petals* 8. *Drupe.* *Calyx* entire.

(6) *Germen inferior. Flowers incomplete.*

836. CYNOMORIUM. *Style* 1. *Seed* 1. *Calyx* tetraphyllous.

869. QUERCUS. *Style* trifid. *Nut.* *Calyx* sexfid. *Obs.* 8967.

870. FAGUS. *Style* trifid. *Capsule* formed from the involucrum, containing 2 and 3 nuts. *Calyx* hexaphyllous.

883. STILINGIA. *Style* 1. *Capsule* tricoccous. *Corolla* infundibuliform.

884. CYTINUS. *Style* 1. *Berry* octolocular. *Corolla* campanulate.

(7) *Germen inferior. Flowers complete.*

788. TANACETUM. to

819. SPHAERANTHUS. *Calyx* pappose, quinquedentate and none. *Corolla* monopetalous, tubular and ligulate. *Seed* 1. *See Vol.* IV. 175 to 180.

895. MOMORDICA. *Style* 1. *Corolla* monopetalous. *Capsule* trilocular, opening elastically.

888. SECHIUM. *Style* 1. *Corolla* monopetalous. *Berry* monospermous.

898. BRYONIA. *Style* 1. *Corolla* monopetalous. *Berry* polyspermous, unilocular.

894. TRICHOSANTHES. *Style* 1. *Corolla* monopetalous, ciliate. *Berry* polyspermous, trilocular.

897. CUCUMIS. *Style* 1. *Corolla* monopetalous, quinquefid. *Berry* polyspermous, trilocular.

896. CUCURBITA. *Style* 1. *Corolla* monopetalous, quinquepartite. *Berry* polyspermous, trilocular.

899. MURICIA. *Style* 1. *Corolla* pentapetalous. *Berry* unilocular.

Order 2. DIGYNIA. Pistils styles or stigmata 2.

(1) *Flowers bracteate.*

851. ALNUS. *Pistils* 2. *Seeds* 2, angular.

850. BETULA. *Pistils* 2 and 3. *Seeds* 2 and 3, winged. *Bracteae* trilobate. *Obs.* 8949.

875. CUPRESSUS. *Pistils* 2. *Nuts* 2, angular. *Bracteae* entire. *Obs.* 8961.

874. THUIA. *Pistils* 2. *Nuts* 2, winged. *Bracteae* entire.

873. PINUS. *Pistils* 2. *Nuts* 2, winged. *Bracteae* double.

831. MORELLA. *Styles* 2. *Drupe*. *Nut* bilocular.

(2) *Germen superior. Flowers incomplete.*

920. MYRICA. *Styles* 2. *Berry* monospermous. *Calyx* diphyllous. *From* M. Gale.

843. COMPTONIA. *Styles* 2. *Nut*. *Calyx* hexaphyllous.

854. MORUS. *Styles* 2. *Berry* monospermous. *Calyx* tetraphyllous.

857. XANTHIUM. *Styles* 2. *Capsule* bilocular, birostrate, formed of the indurated calyx.

833. LIQUIDAMBAR. *Pistils* 2. *Capsules* 2, unilocular. *Seeds* winged.

856. NEPHELIUM. *Pistils* 2. *Drupes* 2. *Calyx* quadridentate.

(3) *Germen superior. Flowers complete.*

889. ALEURITES. *Stigmata* 2. *Berry* dicoccous. *Calyx* trifid. *Petals* and *nectaria* 5.

861. ZIZANIA. *Styles* 2. *Seed* 1. *Calyx* diphyllous. *Petals* 2.

867. POTERIUM. *Pistils* 2. *Capsules* 2. *Calyx* quadridentate. *Petals* 4.

(4) *Germen inferior. Flowers incomplete.*

871. CORYLUS. *Styles* 2. *Nut*. *Calyx* diphyllous.

(5) *Germen inferior. Flowers complete.*

868. JUGLANS. *Style* bipartite. *Drupe*. *Corolla* quadripartite.

Order 3. TRIGYNIA. Pistils styles or stigmata 3.

(1) *Germen superior. Flowers incomplete.*

855. HEVEA. *Stigmata* 3. *Capsule* tricoccous. *Calyx* quinquefid.

880. RICINUS. *Styles* 3, bifid. *Capsule* trilocular. *Calyx* tripartite.

860. AMARANTHUS. *Styles* 3. *Capsule* circumscinded, monospermous.

847. PHYLLANTHUS. *Styles* 3, bifid. *Capsule* tricoccous. *Calyx* sexpartite. *Nectarium* with 12 teeth.

886. SAPIUM. *Styles* 3. *Capsule* tricoccous. *Calyx* semitrifid.

881. AGYNEIA. *Styles* 3. *Capsule* tricoccous and multilocular. *Calyx* hexaphyllous.

877. CROTON. *Styles* 3, bifid trifid and quadrifid. *Capsule* trilocular. *Calyx* decaphyllous pentaphyllous and quinquepartite.

852. BUXUS. *Styles* 3. *Capsule* trilocular, trirostrate. *Calyx* polyphyllous.

(2) *Germen superior. Flowers complete.*

879. IATROPHA. *Styles* 3, bifid. *Capsule* trilocular. *Calyx* pentaphyllous and quinquepartite.

(3) *Germen inferior. Flowers complete.*

866. BEGONIA. *Styles* 3, bifid. *Capsule* trilocular and bilocular, polyspermous. *Calyx* diphyllous and none. *Petals* 5, 6 & 4.

Order 4. POLYGYNIA. *Pistils styles or stigmata many.*

878. TRIDESMIS. *Styles* 15 to 20, in 3 fascicula. *Capsule* trilocular.

IV. *Stamina and pistils in the same flower. Stamina inserted into the pistil.*

Class 20. GYNANDRIA. *Vol.* iv. 285.

V. *Stamina and pistils in the same flower. Antherae united by their margins, forming a kind of cylinder.*

Class 19. SYNGENESIA. *Vol.* iv. 102.

Order 1. MONOGAMIA. All the flowers with stamina and a pistil. *Vol.* iv. 102. 175.

Order 2. POLYGAMIA SUPERFLUA. Flowers of the disc of the anthodia with stamina and a pistil, those of the circumference of the anthodia with a pistil. *Vol.* iv. 175.

Order 3. POLYGAMIA FRUSTRANEA. Flowers of the disc of the anthodia with stamina and a pistil, those of the circumference neutral with the rudiments of stigmata. *Vol.* iv. 178.

Order 4. POLYGAMIA NECESSARIA. Flowers of the disc of the anthodia with stamina and a pistil, with a clavate stigma, those of the circumference of the anthodia with a pistil with filiform stigmata. *Vol.* iv. 179.

VI. *Stamina and pistils in the same flower. Filaments united.*

Class 16. MONADELPHIA. Filaments united into one body. *Vol.* iii. 488.

Order 1. TRIANDRIA. Stamina 3. *Vol.* iii. 488.
Order 2. TETRANDRIA. Stamina 4. *Vol.* iii. 488.
Order 3. PENTANDRIA. Stamina 5. *Vol.* iii. 488.
Order 4. HEXANDRIA. Stamina 6. *Vol.* iii. 489.
Order 5. HEPTANDRIA. Stamina 7. *Vol.* iii. 489.
Order 6. OCTANDRIA. Stamina 8. *Vol.* iii. 490.
Order 7. DECANDRIA. Stamina 10. *Vol.* iii. 490.
Order 8. DODECANDRIA. Stamina 12 to 20. *Vol.* iii. 492.

Order 9. POLYANDRIA. Stamina more than 20. *Vol.* iii. 492.

Class 17. DIADELPHIA. Filaments united into 2 bodies. *Vol.* iv. 1.

Order 1. HEXANDRIA. Stamina 6. *Vol.* iv. 1.

Order 2. DECANDRIA. Stamina 10. *Vol.* iv. 1.

735. ROBINIA. *Calyx* with 5 divisions and entire. *Legumen* polyspermous. *Obs.* 8976, from R. violacea.

Class 18. POLYADELPHIA. Filaments united into more than 2 bodies. *Vol.* iv. 81.

Order 1. DECANDRIA. Stamina 10. *Vol.* iv. 81.

Order 2. DODECANDRIA. Stamina 12 to 19. *Vol.* iv. 81.

Order 3. ICOSANDRIA. Stamina 20 and more, inserted into the inner side of the calyx. *Vol.* iv. 82.

Order 4. POLYANDRIA. Stamina 20 and more. *Vol.* iv. 82.

VII. *Stamina and pistils in the same flower. Stamina distinct.*

Class 1. MONANDRIA. Stamina 1. *Vol.* i. 1.

Class 2. DIANDRIA. Stamina 2. *Vol.* i. 9.

Order 1. MONOGYNIA. Style or stigma 1. *Vol.* iv. 55.

837. LEMNA. *Style* 1. *Calyx* monophyllous diphyllous and none. *Corolla* none. *Capsule* unilocular.

Order 2. TRIGYNIA. Styles or stigmata 3.

Class 3. TRIANDRIA. Stamina 3. *Vol.* i. 85.

Order 1. MONOGYNIA. Style or Stigma 1.

Order 2. DIGYNIA. Styles or stigmata 2.

344*. ANDROPOGON. *Styles* 2. *Bracteae* none. *Calyx* diphyllous. *Petal* 1, linear. *Arista* between the inner phyllum and the germen. *Seed* 1.

Class 4. TETRANDRIA. Stamina 4, of the same length. *Vol.* i. 187.

Order 1. MONOGYNIA. Style or stigma 1.

Order 2. DIGYNIA. Styles or stigmata 2.

Order 3. TETRAGYNIA. Styles or stigmata 4.

Class 14. DIDYNAMIA. Stamina 4, 2 of which longer than the other 2. *Vol.* iii. 279.

Order 1. GYMNOSPERMIA. Seeds naked. *Vol.* iii. 279.

Order 2. ANGIOSPERMIA. Seeds in a seedvessel. *Vol.* iii. 283.

Class 5. PENTANDRIA. Stamina 5. *Vol.* i. 244.

Order 1, MONOGYNIA. Style or stigma 1. *Vol.* i. 244.

Order 2. DIGYNIA. Styles or stigmata 2. *Vol.* i. 257.

Order 3. TRIGYNIA. Styles or stigmata 3. *Vol.* i. 264.

Order 4. TETRAGYNIA. Styles or stigmata 4. *Vol.* i. 265.

Order 5. PENTAGYNIA. Styles or stigmata 5. *Vol.* i. 266.

300*. CORIARIA. *Petals* 5. *Capsules* 5, monospermous.

Order 6. POLYGYNIA. Styles or stigmata more than 5. *Vol.* i. 266.

Class 6. HEXANDRIA. Stamina 6, of the same length. *Vol.* i. 195.

Order 1. MONOGYNIA. Style or stigma 1. *Vol.* ii. 195.

96. GLEDITSIA. *Calyx* quadrifid. *Petals* 4. *Legumen.*

Order 2. DIGYNIA. Styles or stigmata 2. *Vol.* ii. 200.

Order 3. TRIGYNIA. Styles or stigmata 3. *Vol.* ii. 200.

Order 4. POLYGYNIA. Styles or stigmata more than 6. *Vol.* ii. 202.

Class 15. TETRADYNAMIA. Stamina 6, 2 of which shorter than the other 4. *Vol.* iii. 419.

Order 1. SILICULOSAE. Fruit roundish. *L. gen.* 329. *Vol.* iii. 419.

Order 2. SILIQUOSAE. Fruit long. *L. gen.* 329. *Vol.* iii. 420.

Class 7. HEPTANDRIA. Stamina 7. *Vol.* ii. 336.

Order 1. MONOGYNIA. Style or stigma 1. *Vol.* ii. 336.

Order 2. TETRAGYNIA. Styles or stigmata 4. *Vol.* ii. 336.

Class 8. OCTANDRIA. Stamina 8. *Vol.* ii. 341.

Order 1. MONOGYNIA. Style or stigma 1. *Vol.* ii. 341.

Order 2. TRIGYNIA. Styles or stigmata 3. *Vol.* ii. 345.

Order 3. TETRAGYNIA. Styles or stigmata 3. *Vol.* ii. 345.

Class 9. ENNEANDRIA. Stamina 9. *Vol.* ii. 410.

Order 1. MONOGYNIA. Style or stigma 1. *Vol.* ii. 410.

Order 2. TRIGYNIA. Styles or stigmata 3. *Vol.* ii. 410.

Order 3. HEXAGYNIA. Styles or stigmata 6. *Vol.* ii. 410.

Class 10. DECANDRIA. Stamina 10. *Vol.* ii. 435.

Order 1. MONOGYNIA. Style or stigma 1. *Vol.* ii. 435.

436*. BOSVELLIA. *Germen* superior. *Capsule* trilocular; cells monospermous. *Petals* 5. *Nectarium* shorter than the germen. *Vol.* iv. 700, where erase Filaments inserted into the nectarium.

Order 2. DIGYNIA. Styles or stigmata 2. *Vol.* ii. 441.

Order 3. TRIGYNIA. Styles or stigmata 3. *Vol.* ii. 442.

Order 4. PENTAGYNIA. Styles or stigmata 5. *Vol.* ii. 443.

Order 5. DECAGYNIA. Styles or stigmata 10. *Vol.* ii. 445.

Class 11. DODECANDRIA. Stamina 12 to 19.

Order 1. MONOGYNIA. Style or stigma 1. *Vol.* iii. 1.

Class 12. ICOSANDRIA. Stamina more than 19, inserted into the inner side of the calyx. *Vol.* iii. 55.

Order 1. MONOGYNIA. Style or stigma 1. *Vol.* iii. 55.

Order 2. TRIGYNIA. Styles or stigmata 3. *Vol.* iii. 57.

Order 3. PENTAGYNIA. Styles or stigmata 5. *Vol.* iii. 57.

Order 4. POLYGYNIA. Styles or stigmata more than 10. *Vol.* iii. 58.

Class 13. POLYANDRIA. Stamina more than 19, inserted into the receptacle. *Vol.* iii. 161.

Order 1. MONOGYNIA. Style or stigma 1. *Vol.* iii. 161.

Order 2. DIGYNIA. Styles or stigmata 2. *Vol.* iii. 164.

Order 3. TRIGYNIA. Styles or stigmata 3. *Vol.* iii. 164.

Order 4. TETRAGYNIA. Styles or stigmata 4. *Vol.* iii. 164.

Order 5. PENTAGYNIA. Styles or stigmata 5. *Vol.* iii. 165.

Order 6. POLYGYNIA. Styles or stigmata more than 10. *Vol.* iii. 165.

Class 1.

MONANDRIA.

Order 1.

MONOGYNIA.

1. *Flowers inferior.*

3. SALICORNIA. *Corolla* none. *Calyx* entire, ventricose.

2. *Flowers superior.*

2. MARANTA. *Calyx* triphyllous. *Corolla* multipartite. *Style* terete, recurvate at the end. *Obs.* 6847.

1. CANNA. *Calyx* triphyllous. *Corolla* multipartite. *Style* linear. *Obs.* 8209.

MONOGYNIA.

1. CANNA.

Calyx superior, triphyllous. *Corolla* multipartite; segments incumbent; outer limb of 3 segments. *Anthera* sessile, inserted into the corolla. *Style* linear. *Capsule* with 3 cells. *Obs.* 6847. *L.—Roscoe in linn. trans.* viii. 338. *t.* 20. *f.* 1.

1. CANNA *ellipticifolia*. Leaves elliptic, with patent veins. *Obs.* 6847.

C. indica. *L. sp.* 1. *Hort. kew.* i. 1.

Cannacorus. *Rumph.* v. 177. *t.* 71. *f.* 2. Segments of the corolla entire.

C. indica rubra. *Beysl. aut. ord.* ii. *t.* 1. Segments of the corolla entire.

Arundo indica florida latifolia, sive Canna indica. *Hist. ox. s.* 8. *t.* 14. *f.* 1.

(Meeru. *Marcgr. bras.* 4, has paniculate flowers.)

TOZCUITLAPIL XOCHITL. Hernand. 282.

α *rubra*. The whole of the flower reddish. Leaves elliptico-ovate. *Hort. kew.* i. 1.

C. indica, flore rubro. *Park. parad.* 376. *t.* 381. *f.* 1.

Katu Bala. *Rheede* xi. 85. *t.* 43. Two of the segments of the corolla bifid at the end.

Arundo florida. *Ger. by Johns.* 39.

Arundo indica latifolia. *Bauh. J.* ii. 489. No fig.

β *lutea*. Inner petals erect, yellow. The revolute segment of the nectarium with reddish lines. Leaves ovato-elliptic. *Hort. kew.* i. 1.

C. indica, flore flavo punctato. *Park. parad.* 376.

Arundo indica latifolia, flore luteo punctato. *Bauh. J.* ii. 490. No fig.

Arundo florida, having yellow flowers with red spots. *Johns. in Ger. by Johns.* 39. No fig.

γ *coccinea*. Inner petals erect, scarlet. The revolute segment of the nectarium yellow, with reddish lines. Leaves ovato-elliptic. *Hort. kew.* i. 1.

Calyx erect, longer than the germen; phylla ovate, incumbent, the outer rather obtuse, the 2 inner acute, the intermediate one the longest, the innermost somewhat longer than the outer and somewhat shorter than the intermediate one. *Corolla* supe-

rior, octopartite and septempartite, with 2 limbs; segments obliquely and obsoletely emarginate at the end; outer limb of three segments; segments lanceolate, straight, erect, canaliculate, nearly equal, inserted at different heights into the inner limb, whitish purplish or yellowish and greenish above, the innermost spotted above with red; inner limb $1\frac{1}{2}$ as long as the outer, of 5 and 4 segments, somewhat bilabiate, the upper lip formed by the 3 or 2 outer segments, and the lower by the 4th segment; the outer segment when present somewhat smaller than the 2 next, scarlet, the 2 next scarlet, nearly equal, patulous, lanceolate, unequal at the base, one margin being lower, the 4th larger, elliptic below, linear above, orange coloured with scarlet spots and a scarlet margin, the 5th similar to the 4th, but smaller, bearing the anthera. *Anthera* in an unexpanded flower appearing as if growing from the margin of the 5th segment, but in the expanded flower appearing like a true stamen, whose filament was wholly consolidated with the petal. *Obs.* 2721.

♂ *patens*. *Hort. kew.* i. 1. Three outer segments of the inner limb of the corolla curvate, scarlet, the 4th revolute, yellow with red spots. *Obs.* 6847. In Mr. Sitwell's garden.

C. indica. *Curt. mag. t.* 454.

Stem $2\frac{1}{2}$ feet long, erect. *Germen* ovali-turbinate, minutely tuberculate. *Calyx* permanent; phylla ovate, erect, incumbent, membranaceous at the margin, the outermost half as long again as the germen. *Corolla* superior, deciduous, octopartite; outer limb of 3 segments; segments lanceolate, acute, erect, inserted a little way above the germen, yellow below, greenish above, reddish at the margin; inner limb of 5 segments, the 3 outer reddish

scarlet, forming a kind of upper lip, erect and linear below, spatulato-lanceolate and recurvate above; the 4th forming a kind of lower lip, revolute, yellow below, above yellow with short longitudinal red lines; the 5th linear, erect, yellow with short longitudinal red lines, standing midway between the 2 lips. *Stamen* 1. *Filament* growing to the outer margin of the 5th petal. *Anthera* sessile, inserted into the outer margin of the 5th petal, bilocular. *Style* linear, adhering below to the corolla, rather obtuse at the end, yellow below, reddish and shining above. *Pollen* white, adhering to one of the sides of the upper end of the style. *Obs.* 6847.

2. MARANTA.

Calyx superior, triphyllous. *Corolla*, outer limb trifid; inner limb tripartite. *Anthera* sessile, inserted into the margin of the upper segment of the inner limb of the corolla. *Style* simple, recurvate at the end. *Capsule*. *Obs.* 8479, the account of the corolla and anthera from *Swartz. obs.* 7. *L.*—*Roscoe in linn. trans.* viii. 339. *t.* 20. *f.* 2.

1. MARANTA *malaccensis*. Stem herbaceous, simple. *From authors*. *L. a Willd.* i. 14. *Burm. GALANGA* malaccensis. *Rumph.* v. 176. *t.* 71. *f.* 1.

2. MARANTA *arundinacea*. Stem herbaceous, branched. Leaves ovato-lanceolate, slightly pilose underneath. *L. a Willd.* i. 13. *L. sp.* 2. *Hort. kew.* i. 3. *Swartz. obs.* 8. Cultivated in the West Indies.—*Salisb. R. allert.* 5. *Roscoe in linn. trans.* viii. 339.

Maranta. *Browne* 112. Cultivated in gardens.—*Royen* 11.

Canna indica, radice alba alexipharmaca. *Sloane cat.* 122, cultivated in gardens in the West Indies, and said to be a native of Dominica; *hist.* i. 253. *t.* 149. *f.* 2. A leaf. Introduced into Jamaica from Barbadoes, and into Barbadoes from Dominica.

Leaves nervose, slightly pilose underneath towards the base; with transverse veins between the ribs, not readily discernible without a microscope. *Calyx* green; phylla ensiformi-oblong, erect, longer than the germen. *Corolla* thin, twice as long as the germen. *Stigma* angular. *Capsule* oval, not yet ripe, trivalve, monospermous. *Seed* oblong, nearly as long as the capsule. *Obs.* 8209. Specimen gathered by Dr. Wright in Jamaica.—*Leaves*, the costa underneath at the base pilose. *Obs.* 8210. Specimen gathered in Fothergill's garden.

MARANTA arundinacea. *Wright in med. journ.* viii. 269. *Swartz. obs.* 8. *Clark, James in med. facts* vii. 301. *Lempriere* ii. 223, 233. *Murr. J.* i. 388.

Sagittaria alexipharmaca. *Dale* 250.

Arrowroot. *Underw.* i. 136; iii. 143.

Indian Arrowroot. *Chisholm* 193.

Arrowroot Starch. *Graing.* 38.

3. MARANTA *fruticosa.* Stem fruticose. *From authors.*

M. Tonchat. *L. a Willd.* i. 13.

ARUNDASTRUM. Rumph. iv. 22. *t.* 7, who describes the corolla as hexapetalous, and the fruit as a drupa.

3. SALICORNIA.

Calyx inferior, ventricose, entire. *Corolla* none. *Stigma* bifid. *Seed* 1. *Obs.* 1771. *L.*

1. SALICORNIA *herbacea.* Leaves perfoliate. Stem herbaceous, branched. *Obs.* 1771. Specimen gathered at Teignmouth by Mr. Boraston.—*L. sp.* 5; *a Murr.* 52. *Huds.* 1. *Bot. arrang.* i. 3; iii. cxv. *Roth. germ.* ii. 1. *α Smith brit.* 2 *α Fl. dan. t.* 303, *cop. in Blackw. auct. t.* 598.

S. annua. *Smith. engl. bot. t.* 415.

Salicornia. *Boerh.* ii. 94, where marked as an annual. —*Dill. ap. Raii syn.* 136.

Kali geniculatum majus simplicius. *Raii hist.* 211, where described as an annual; *cat. ed.* i. 183; *ed.* ii. 176.

Kali geniculatum alterum vel minus. *Raii syn. ed.* i. 39; *ed.* ii. 67, where it is not marked as annual.

Kali geniculatum annuum. *Magn. monsp.* 147.

S. sive Kali. *Dalech.* 1378, *the right hand half.*

S. sive Kali geniculatum vermiculatum. *Lob. adv.* —170, *repr. in ic.* i. 395,

Salicornia. *Dod.* 82, *&* S. sive Kali geniculatum. *Ger. by Johns.* 535, *and cop. in Brit. herb.* 83, *&*

Kali geniculatum. *Dalech.* 1378. *&*

Cali geniculatum, sive Salicornia. *Bauh. J.* iii. 705. (The description belongs to S. fruticosa.) *f.* 2. *n.* 2. *and* 3. *cop. in*

S. sive Kali geniculatum. *Park. theatr.* 280. *n.* 2, *&* 3. *Number* 1 *is original.*

S. erecta, foliis brevibus, cupressiformis. *Stonestreet ap. R. syn.* 137?

S. myosuroides procumbens, surculis longissimis. *Stonestreet ap. R. syn.* 137? Probably when in fruit.

Stem from 3 to 6 inches long, erect. *Spikes* terete, lineari-lanceolate. *Obs.* 1771.—*Obs.* 6842 from Freistone-shore, near Boston, Lincolnshire.—*Stem* 3½ inches long, much branched. *Branches* very

patent. *Spikes* terete, lanceolate. *Obs.* 6843. Specimen gathered by Dr. Cutler in New England, among specimens of S. *simplex*.

SALICORNIA. *Bryant* 109. *Berg.* 8. *Vog.* 117. Soda. *Linn.* 38. *Murr.* iv. 284.

2. SALICORNIA *simplex*. Leaves perfoliate. Stem herbaceous, simple or with few branches. *Obs.* 6844. Specimens gathered by Dr. Cutler in New England.

S. virginica. *L. a Murr.* 52.

Stem 3 and 3½ inches long, erect, or slightly ascending, fuscous, one tenth of an inch thick. *Leaves* to 2½ tenths of an inch broad. *Spikes* terete, lanceolato-cylindric. *Obs.* 6844.

SALICORNIA. *Schoepf* 1.

3. SALICORNIA *fruticosa*. Leaves perfoliate. Stem suffruticose. *Obs.* 5364. Specimen gathered on the southern coast of England.—*L.*—*Bot. arrang.* 3. *Smith brit.* 3.

Kali geniculatum perenne fruticosius procumbens. *R. syn. ed.* i. 39; *ed.* ii. 67; *ed.* iii. 136. Found by Sloane in the isle of Shepey and by Dillenius in the isle of Grain.

Kali sempervirens grandius perpetuum. *Raii exter.* 157. In salt marshes on the coasts of the Mediterranean sea.

Kali geniculatum majus, multis ramis fruticans. *Raii hist.* 211.

Cali geniculatum, sive Salicornia. *Bauh. J.* iii. 704. The description. (Fig. 1 is a copy of a portion of S. sive Kali Matthioli. *Dalech.* 1378.—Fig. 2. n. 1, 2, 3, seem to be S. herbacea.)

Kali geniculatum majus sempervirens. *Magn. monsp.* 147.

S. ramosior procumbens, foliis brevibus purpurascentibus. *Stonestreet ap. Raii syn.* 137?

Stem branched, brownish green, 9 inches long, diffuse; internodia to $\frac{1}{2}$ inch long, attenuate downwards. *Leaves* patulous, membranaceous at the margin. *Obs.* 5364.

SODA. Linn. 39, *note.*

4. SALICORNIA *glauca.* Leaves perfoliate. Stem suffruticose. Branches erect. *Obs.* 3278. In the nursery of Mr. Hunter, where it had never flowered.

S. arabica. *L. sp.* 5? but the internodia are not thicker at the base.—*Hort. kew.* iii. 5, where it is not mentioned as having ever flowered.—*L. fil. suppl.* 81? but the leaves are not alternately dehiscent.

Cali arabum aliud. *Bauh. J.* iii. 704.

Kali arabum secundum genus. *Dalech. app.* 20.

Stem erect, glaucous, both when recent and dried; branches erect, tough, cylindric; internodia $2\frac{1}{2}$ tenths of an inch long. *Leaves* decussate, when recent not broader than the branches, when dried as wide again as the branches. *Flowers* none. *Obs.* 3278.—*Stem* glaucous; internodia cylindric. *Branches*, internodia obattenuate. *Obs.* 6841. Specimen gathered in Fothergill's garden.

SODA. Murr. iv. 285.

Al Kali. *Power, account from in chir. rev.* ix. 152.

Class

Class 2.

DIANDRIA.

Order 1.

MONOGYNIA.

1. *Flowers inferior, monopetalous, regular.*

7. Olea.	*Corolla* quadrifid; segments subovate. *Drupe. Nut* osseous, unilocular and bilocular, with 1 and 2 seeds. *Vahl.*
8. Chionanthus.	*Corolla* quadrifid; segments linear. *Drupe. Nut* monospermous. *Obs.* 8449.
6. Phillyrea.	*Corolla* quadrifid. *Drupe. Nut* bilocular, of a paper-like texture. *Seeds* solitary. *From Vahl.*
5. Ligustrum.	*Corolla* quadrifid. *Berry* bilocular. *Seeds* solitary. *Obs.* 3408.
9. Syringa.	*Corolla* quadrifid, infundibuliform. *Capsule* bilocular. *Seeds* solitary. *Obs.* 1792.
11. Boerhavia.	*Corolla* quinquedentate, or entire, inserted into the calyx. *Seed* 1.
4. Jasminum.	*Corolla* with from 5 to 8 divisions. *Berry* dicoccous and bilocular, or globose with 1 cell. *Seeds* solitary. *Obs.* 4277.

2. *Flowers inferior, monopetalous, irregular. Capsule.*

18. VERBENA. *Corolla* quinquefid. *Capsule* unilocular, very thin.

13. VERONICA. *Corolla* quadrifid; lower segment narrower. *Capsule* bilocular, quadrivalve.

15. GRATIOLA. *Corolla* quadrifid and quinquefid; segments slightly unequal. *Calyx* pentaphyllous. *Stamina* 4, 2 mostly without antherae. *Capsule* bivalve. *Obs.* 5305.

16. CARANGA. *Corolla* shorter than the calyx; lower lip broader. *Calyx* diphyllous. *Capsule* bivalve, polyspermous. *From Vahl, and Jussieu.*

14. JUSTICIA. *Corolla* bilabiate. *Capsule* bivalve, opening elastically; dissepiment contrary. *Obs.* 6872.

17. PINGUICULA. *Corolla* ringent, with a spur. *Calyx* quinquefid. *Capsule* unilocular. *Obs.* 4866.

3. *Flowers inferior, monopetalous, irregular. Seeds naked,* 4.

19. LYCOPUS. *Corolla* quadrifid; upper segment broader, emarginate.

24. COLLINSONIA. *Corolla* unequal; lower lip multifid. *Seeds* 4, 3 abortive. *Obs.* 717.

20. CUNILA. *Corolla* ringent; upper lip erect, flat, emarginate. *Stamina* 4, 2 without antherae. *From Vahl.*

21. MONARDA. *Corolla* ringent; upper lip linear, entire. *Obs.* 3084.

22. ROSMARINUS. *Corolla* ringent; upper lip bifid. *Filaments* with a tooth.

23. SALVIA. *Corolla* ringent. *Filaments* fixed transversely to a pedicle. *Obs.* 5265.

4. *Flowers inferior, tetrapetalous.*

10. FRAXINUS. *Corolla* tetrapetalous or none. *Calyx* quadripartite or none.

5. *Flowers superior, monopetalous.*

25. KAEMPFERIA. *Calyx* obsolete. *Corolla,* outer limb tripartite; 2 of the segments of the inner limb ovate, the third bipartite. *From L.*

26. CURCUMA. *Calyx* monophyllous. *Corolla,* upper segment of the inner limb with 4 horns. *From Jacq.*

27. ZINGIBER. *Calyx* monophyllous. *Corolla,* outer limb tripartite; inner limb bilabiate; upper lip undivided, extended beyond the insertion of the antherae; lower lip tripartite. *Capsule. Obs.* 3257.

28. COSTUS. *Calyx* monophyllous. *Corolla,* outer limb tripartite; inner limb bilabiate; upper lip extended beyond the insertion of the antherae; lower lip trilobate. *Capsule. From Swartz and Roscoe.*

29. HEDYCHIUM. *Calyx* monophyllous. *Corolla,* outer and inner limb tripartite. *Antherae* terminal. *From Lamark and Roscoe.*

30. RENEALMIA. *Calyx* monophyllous. *Corolla*, outer limb tripartite; inner limb bilabiate. *Antherae* adhering to the upper end of the middle segment of the upper lip. *Berry* trilocular in the middle. *Obs.* 7168.

31. GLOBBA. *Calyx* monophyllous. *Corolla* trifid. *Capsule. From L.*

6. *Flowers superior, dipetalous.*

12. CIRCAEA. *Calyx* diphyllous.

7. *Flowers naked.*

Fraxinus excelsior. 10.

Order 2.

TRIGYNIA.

32. PIPER. *Calyx* and *Corolla* none. *Berry* monospermous. *L.*

MONOGYNIA.

4. JASMINUM.

Corolla hypocrateriform. *Berry* dicoccous, with 2 cells, or globose with 1 cell. *Seeds* solitary. *Obs.* 4277. *L.*

1. *Teeth of the calyx subulate, longer than the tube.*

1. JASMINUM *Sambac.* Leaves opposite, simple, elliptic, ovate, and subcordate, dull. Smaller branches and petioles pubescent. *Obs.* 4354. In a garden.—*Hort. kew.* i. 8.
Nyctanthes Sambac. *L. sp.* 2.
Nyctanthes. *L. ups.* 4.
SAMBAC arabicum, sive Gelseminum arabicum. *Raii hist.* 1600.
α *simplex.* Corolla single. *Hort. kew.* α
J. sive Sambach arabum Alpino. *Bauh. J.* ii. 102.
β *ovale.* Corolla with 10 segments; segments oval, about as long as the tube. *Obs.* 4354.
Syringa arabica. *Ger. by Johns.* 1400.
Flos Manorae. *Rumph.* v. 52. *t.* 30.
γ *duplicatum.* Corolla with several rows of segments; segments oval. *Obs.* 8305. In Mr. Sitwell's garden.—*Hort. kew.* β
Flos Manorae flore pleno majore. *Rumph.* v. 55. *t.* 30. *f. A.*
δ *plenum.* Corolla double; segments roundish, longer than the tube. *Hort. kew.* γ

2. JASMINUM *officinale.* Leaves opposite, pinnate; folioles acuminate. Buds nearly erect. *Hort. kew.* i. 10. *L. sp.* 9. *Curt. mag. t.* 31.
J. sive Gelseminum, flore albo. *Bauh. J.* ii. *a.* 101.
J. album. *Dalech.* 1430. *Ger. by Johns.* 892. *repr. in*
Jasminum. *Dod.* 405, *and cop. in*
Gelseminum vulgatius. *Lob. obs.* 542, *which repr. in*
Gelseminum vulgatius Jasminum. *Lob. ic.* ii. 105, *and under the erroneous title of*
J. luteum. *Ger. by Johns.* 893.

JASMINUM. Berg. 10. *Dale* 317. *Lew. disp. by Rother.* 177; *by Dunc.* 343. *Linn.* 39. *Mill. Jos.* 242. *Murr.* ii. 31. *Rutty* 247. *Vog.* 152.

5. LIGUSTRUM.

Calyx quadridentate. *Corolla* quadrifid. *Berry* with 2 cells. *Seeds* solitary. *Obs.* 3408. *L.*

1. LIGUSTRUM *vulgare.* Leaves lanceolate and oblong. *Obs.* 3408. In hedges on the limestone and gravel of the eastern side of Derbyshire.—*L. suec. n.* 5; *sp.* 10.

α *deciduum.* Leaves falling off in autumn. *Obs.* 3408. —*Murr. ap. L. a Murr.* 56 α

L. vulgare. *Curt. lond.* v. 1. *t.* 300. *Bot. arrang.* 7. *Smith brit.* 12.

Phillyrea. *Dod.* 763, *repr. in*

Ligustrum. *Lob. ic.* ii. 131, *and Ger. a Johns.* 1394. *Fuchs.* 468. *c.* 183, *cop. in Trag.* 1005. *Bauh. J.* i. *a.* 528. *R. hist.* 1603; *syn.* 465. *Boerh.* ii. 215. *Tourn. paris.* 109. *Vaill. paris.* 116. *Park parad.* 445. *t.* 443. *f.* 5; *theatr.* 1446. (The figure is that of Euphorbia dendroides.)

Leaves lanceolate, acute; oblong and oval with a short cuspis at the end. *Racemi* terminal, compound; primary branches opposite; pedicles opposite and alternate. *Berries* with 1 and 2 seeds. *Obs.* 3408.

Native of Germany, Switzerland, France, the sea coast of Bahus in Sweden, England and Scotland, but not common in the latter kingdom; in marle, limestone, gravel and sometimes on gritstone. Schoepf speaks of it as a native of New York and Long Island, and Dr. Cutler observed it at Lynn in New

England, but adds, that it is not very common in a wild state. Was it not imported from Europe?

LIGUSTRUM. Dale 317. *Geoffr.* iii. 719. *Mill. Jos.* 268. *Rutty* 285. *Schoepf.* 2. *Spielm.* 383. *Vog.* 107.

LYCIUM. Schrod. quoted in Dale 323.

β *sempervirens.* Leaves falling off in the spring. *Obs.* 7899. In a garden.

L. vulgare. β *Murr. ap. L. a Murr.* 56.

L. italicum. *Mill. Ph. dict. n.* 2.

Ligustrum. *Dalech.* 252.

L. myrtifolium italicum. *R. hist.* 1603.

Leaves lanceolate, 2¼ inches long. *Berries* oval, shining, purplish black, containing 2 seeds. *Obs.* 7899.

γ *stramineo-variegatum.* Leaves green and straw coloured. *Obs.* 5832. In a garden.

L. foliis ex luteo variegatis. *Boerh.* ii. 215. *Vaill. paris.* 116.

6. PHILLYREA.

Calyx quadridentate. *Corolla* quadrifid. *Berry* with 2 cells. *Seeds* solitary. *Gaertn. L.*

1. PHILLYREA *media.* Leaves partially serrate, lanceolate or oblong. *Obs.* 7902. Specimen from a garden.—*L. sp.* 10. *Hort. kew.* i. 11.

P. foliis lanceolatis, sub integerrimis. *L. ups.* 5.

α *ligustrifolia.* Leaves oblongo-lanceolate. *Hort. kew.* i. 11.

P. folio ligustri. *Boerh.* ii. 215.

Cyprus latiore folio. *Dod.* 765, *repr. in*

P. tertia. *Clus. hisp.* 63; *hist.* i. 52,

P. narbonensis. *Lob. ic.* ii. 131, &

P. latiore folio. *Ger. a Johns.* 1395, *and cop. in*
P. latiusculo folio. *Bauh. J.* i. *a.* 539, *and*
P. Penae major. *Dalech.* 258. In flower.
Philyca. *Dalech.* 258, in fruit.
PHILLYREA. Dale 313. *Geoffr. suite.* i. 400.

β *virgata.* Leaves lanceolate. Branches erect, rodlike. *H. K.*

γ *pendula.* Leaves lanceolate. Branches divaricato-pendulous. *H. K.*

δ *oleaefolia.* Leaves oblongo-lanceolate. Branches nearly erect. *H. K.*

ε *buxifolia.* Leaves oval-oblong, rather obtuse. *H. K.*

7. OLEA.

Corolla quadrifid; segments nearly ovate. *Drupe* with 1 seed. *L.*

1. OLEA *europaea.* Leaves entire at the margin, lanceolate. Racemi axillary, compact. *Obs.* 7992. Specimen from M. Broussonett, probably gathered near Montpelier.—*Hort. kew.* i. 12. *L. sp.* 11. *Woodv.* iii. 369. *t.* 136.

α *communis.* Leaves lanceolate, flat, hoary underneath. *Hort. kew.* i. 12.
O. gallica. *Mill. Ph. dict. n.* 1.
Olea. *Dod.* 809. *Trag.* 1061. *Clus. hisp.* 46, *repr. in*
O. cum fructu ac flore. *Dod.* 809,
O. sativa. *Lob. obs.* 566; *ic.* ii. 135, *and Ger. by Johns.* 1392, *and cop. in Park. theatr.* 1439, *and Bauh. J.* i. *b.* 1. *Dalech.* 343. *Raii hist.* 1541; *europ.* 189. *Boerh.* ii. 218. *Magn. monsp.* 189, where the different varieties produced in the neighbourhood of Montpelier are enumerated.

OLIVA. The Olive-tree. The fruit and its oil. *Pharm. lond.—Berg* 11. *Vog.* 258.

Olea. *Dale* 308. *Geoffr. suite* i. 225. *Herrera in Ulloa* i. 51. *Lew.* ii. 158. *Mill. Jos.* 319. *Rutty* 357.

O. *europaea.* The fixed oil of the fruit. *Pharm. edin.—Bryant* 230. *Lew. disp. by Dunc.* 267. *Murr. J.* i. 377. 390. *Syn.* i. 95. 174; ii. 258.

Olivae. *Cartheus.* i. 338. *Linn.* 39. *Schoepf* 2. *Spielm.* 107.

Olivarum fructus. *Murr.* ii. 33.

Oleum olivarum. *Quicr. in lett. & ess.* 177. *Wall, J. tracts* 97. *Fordyce G. pract.* 205. *Denm.* ii. 35. *Pringle* 267. *Monro* iii. 295.

Oleum olivae. *Hull phlegmat.* 294. *Heberd.* 193.

Oleum. *Stoll. med.* ii. 287. *Heberd.* 150. 152. 183. 360. *Quar in febr.* 375.

Oil of Olives. *Cull.* ii. 127. *Darw.* ii. 40. *Hufeland, account from in phys. journ.* vi. 72. *Underw.* i. 58.

Olive oil. *Baldwin, account from in phys. journ.* vi. 247, *& ann. med. lustr. II.* ii. 127. *Berchtold, account from in ann. med.* ii. 376; *in Trotter* ii. 75; *& med. rev.* iii. 209. *Brefeld, account from in phys. journ.* v. 490. *Bucholz, account from in ann. med.* iv. 267. *Campet, account from in ann. med. lustr. II.* ii. 132. *Chalm.* ii. 120. *Chamberlaine, W. in med. soc.* iii. 571. *Gaitskell in med. soc.* v. 4. *Jackson, H. of Georgia, account from in chir. rev.* xiv. 62. *Kentsch, account from in phys. journ.* xi. 480; xii. 382; *& chir. rev.* xi. *part.* ii. 16. *Miller, J. account from in chir. rev.* vi. 400. *Neum.* ii. 65. *Oliver in phil. trans.* xlix.

for 1755, *art.* 13. *Rush* v. 123. *Underw.* ii. 153.

Sweet Oil. *Clegh.* 252. *Pringle* 164. *Rush* iii. 292, 293. *Underw.* ii. 151.

Common Oil. *Darw.* ii. 46. 312. *Underw.* i. 23. *Williams in phys. journ.* xiii. 17. *Med. rev.* iv. 80.

Oil. *Cull. pract. n.* 1446. *Darw.* ii. 29, 39, 43, 61, 130, 136, 137, 145, 147, 750, 753, 754. *Sims in med. soc.* ii. 2. *Shadwell in med. soc.* iii. 461. *Ploucq. bibl.* i. 131, 194, 351, 643. *Aitken midw.* 118, 128. *Jackson J. account from in chir. rev.* xii. *part* ii. 149. *Moseley* 23. *Fordyce G. fev.* iii. 231. *Underw.* i. 56. *Pringle* 151. *Aitken midw.* 143, 153, 177. *Assalini, account from in chir. rev.* viii. 461. *Faust & Hunold, account from in phys. journ.* xiv. 480. *Wilson, account from in chir. rev.* ix. *part* ii. 5. *Wittman, account from in chir. rev.* x. *part* ii. 51.

β *sylvestris.* (Variation.) Leaves smaller. Drupe smaller, slenderer; the point recurvate. *From Ray & Clusius.—L. sp.* 11 β

O. sylvestris, folio duro subtus incano. *Boerh.* ii. 218.

Oleaster. *Clus. hisp.* 48, *repr. in*

Oleae sylvestris ramulus. *Dod.* 809,

O. sylvestris. *Ger. by Johns.* 1392, *and a branch cop. in*

Oleaster, sive Olea sylvestris. *Bauh. J.* i. *b.* 21. *The rest of the figure cop. from*

O. silvestris septentrionalium. *Lob. ic.* ii. 136, *which also cop. in*

Oleaster cappadocius. *Park. theatr.* 1411.

O. sylvestris. *Park. theatr.* 1439. *Raii hist.* 1544. *Magn. monsp.* 189.

O. sylvestris, sive Oleaster. *Lob. adv.* 422. *repr. in ic.* ii. 135.
OLEASTER. Dale 308.
γ *longifolia.* Leaves lineari-lanceolate, flat, silvery underneath. *Hort. kew.* β
δ *latifolia.* Leaves oblong, flat, hoary underneath. *Hort. kew.* γ
ε *ferruginea.* Leaves lanceolate, ferrugineous underneath. *Hort. kew.* i. 13. δ
ζ *obliqua.* Leaves oblong, bent obliquely, pale underneath. *Hort. kew.* i. 13. ε
η *buxifolia.* Leaves oblong-oval. Branches patent, divaricate. *Hort. kew.* ζ

2. OLEA *microcarpa.* Leaves elliptic, acuminate, serrate. Racemi terminal. *Vahl. enum.* i. 43.
PHILLYREA indica. *Lour.* i. 43.

8. CHIONANTHUS.

Calyx quadripartite. *Corolla* infundibuliform; tube very short; limb quadripartite; segments linear. *Stamina* as long as the tube. *Drupe. Nut* striate. *Obs.* 8449. *Juss.* 105. *L.*

1. CHIONANTHUS *triflora.* Lateral peduncles triflorous, *Obs.* 8449. Specimen gathered in Lee's nursery.
C. virginica. *L. sp.* 11. *Hort. kew.* i. 14.
Chionanthus. *Gron. virg.* 1. *Royen* 399.
CHIONANTHUS virginica. *Marsh.* 33.
α *ovalifolia.* Leaves ovali-elliptic. *Obs.* 8449.—*Hort. kew.* α

Calyx tripartite; 2 of the segments irregularly bifid and trifid at the end. *Corolla* many times longer than the calyx. *Antherae* oblong, erect, longer than the filaments. *Pistil* shorter than the tube of the corolla. *Obs.* 8449.

β *lancifolia.* Leaves lanceolate. *Hort. kew.* β *Leaves* lanceolate and oblong. *Obs.* 8450. Specimen gathered in Lady Clifford's garden.

9. SYRINGA.

Corolla infundibuliform; limb quadripartite. *Calyx* quadridentate. *Capsule* of 2 cells. *Seeds* solitary. *Obs.* 1792. *L.*

1. SYRINGA *vulgaris.* Leaves cordate. *Obs.* 1792. In a garden.—*L. sp.* 9. *Hort. kew.* i. 15.
SYRINGA. *Geoffr. suite* iii. 136. *Schoepf* 3.
α *caerulea.* Corolla purplish blue. *Obs.* 2936. In a garden.—*H. K.* i. 15. *Curt. mag. t.* 183.
S. caerulea. *Ger. by Johns.* 1399.
S. flore caeruleo sive Lilac. *Bauh. J.* i. *b.* 204.
β *violacea.* Corolla violet coloured. *H. K.* i. 15.
γ *alba.* Corolla white. *H. K.* i. 15.

10. FRAXINUS.

Calyx quadripartite, or none. *Corolla* tetrapetalous, or none. *Stamina* inserted into the receptacle. *Seed* oblong. *Obs.* 235. *L.*

Flowers in some species hermaphrodite; in *F. excelsior* hermaphrodite in one plant, male in another and female in a third. *Obs.* 235.

Petals in *F. ornus* most clearly distinct, inserted into the receptacle opposite to the sinuses of the calyx. *Seed* in *F. excelsior* not a capsule, but as truly a seed as a hazle nut or carraway seed, consisting of a lanceolate kernel inclosed in a flatted coriaceous coat, extended outwards into a lanceolate wing-like border. The kernel is connected to the coat by an umbilical cord. *F. ornus* and *excelsior* appear to me to belong clearly to one genus, but why Linnæus and Bernard Jussieu have arranged it with Jasminum, Syringa, Ligustrum, &c. in his natural order of *Sepiariae* I do not comprehend, unless from the number of stamina and the external resemblance between the corolla of *Fraxinus Ornus*, & *Chionanthus*. M. Jussieu has followed their example, but suggests its connection with *Acer*, with which it seems to be really allied.

1. FRAXINUS *excelsior*. Folioles serrate. Petals none. *L. sp.* 1509; *suec. n.* 926. *Hort. kew.* iii. 444. *Bot. arrang.* 1149. *Smith brit.* 13. *Tourn. paris.* 333. *Vaill. paris.* 56. *Mill. Ph. dict. n.* 1. *Kalm quoted in Schoepf* 154 *under n.* 337?

α *communis*. *H. K.*—Leaves pinnate; folioles lanceolate. Branches erect or ascending. *Obs.* 235. In hedge-rows.

F. excelsior, flore petaloide, mas. *Boerh.* ii. 171.

F. excelsior, frugifera, foemina. *Boerh.* ii. 171.

Fraxinus. *Cam. epit.* 64. *Dalech.* 83. *Dod.* 821, *repr. in Lob. ic.* ii. 107, & *Ger. by Johns.* 1472. *Raii syn.* 469.

F. cum fructu and pilulis. *Dalech.* 84, a branch with fruit, diseased excrescences and no leaves; *cop. in*

F. vulgatior. *Bauh. J.* i. *b.* 174. *Raii hist.* 1702.

F. vulgaris. *Park. theatr.* 1419.

The common Ash-tree. *Evel. by Hunt. ed.* i. *t. at p.* 150; *ed.* ii. *t. at p.* 145.

Native of Europe, and probably of America.

FRAXINUS. Alst. ii. 8. *Berg.* 831. *Dale* 332. *Geoffr.* iii. 495. *Herm.* 210. *Lew.* i. 441; *disp. by Rother.* 161. *Linn.* 267. *Mill. Jos.* 203. *Murr.* iii. 535. *Schoepf* 154. *Spielm.* 215. *Vog.* 169. 280. *Fordyce, G. pract.* 156. *Ploucq. bibl.* i. 484. *Swiet.* iv. 258.

F. excelsior. *Coste & Willemet in med. comment.* v. 298. *div.* 2 *&* 3. *Lind. hot clim.* 314. *Schreger account from in med. comment. dec. II.* viii. 151.

β *pendula.* Leaves pinnate. Branches pendent. *Hort. kew.* iii. 445 β Near Gamlingay, Cambridgeshire. *Martyn ap. Smith brit.* 13 β *Relh. ed.* ii. 5 β

γ *diversifolia.* Leaves simple and ternate. *Obs.* 6460. In Mr. Sneyd's garden.—*Hort. kew.* γ

δ *simplicifolia.* Leaves simple. *Obs.* 8186. In a plantation.

F. excelsior. β *Bot. arrang.* 1151.

ε *rotundifolia.* Leaves pinnate; folioles obovato-elliptic, and elliptic. *Obs.* 5388. Specimen without flowers or fruit, gathered in the Paris garden; compared with a specimen in the herbarium of Sir Joseph Banks, marked in Prof. Jacquin's hand writing, "F. Manna. Sub hoc titulo missa ex Hort. Argent." and with another the only one in flower, marked "Hort." introduced into the herbarium since the death of Solander.

F. rotundifolia. *Mill. Ph. dict. n.* 2. *Solander ap. Hort. kew.* iii. 445, who characterises it as having petals, but in the only specimen in flower in Sir Joseph Banks's herbarium the flowers are without petals. Is this variety liable to vary in this par-

ticular, or are *F. excelsior* and *F. Ornus* both liable to a similar variation in the shape of the folioles?

F. alepensis. *Pluk. alm.* 158. *t.* 182. *f.* 4, a good figure. He refers to the synonyms of Herm. and the Bauhines here quoted, and adds that it was commonly known by the name of the Manna tree, "Mannae arbor vulgo."—*Herm. hort. lugdb.* 261, who says he received the plant from England, from Watts, and that it is smaller and lower than *F. excelsior*, and that the folioles are rounder.

F. rotundiore folio. *Bauh. Casp. pin.* 416. *Bauh. J.* i. *b.* 177. *Boerh.* ii. 172. *Raii hist.* 1703.

MANNIFERA ARBOR. Dale 332.

2. FRAXINUS *Ornus*. Folioles serrate, oblongo-elliptic, acuminate, petiolate. Flowers with petals. *Obs.* 5389. Specimen gathered in Fothergill's garden.—*Hort. kew.* iii. 445. *L. sp.* 1510. *Host.* 548. In Litorale and Istria. *Woodv.* i. 104. *t.* 36. *Gouan. hort.* 521. *Mill. Ph. dict. n.* 3. *Ferber's trav. in Italy* 212. On the road from Rome to Civita Vecchia and about Tolfa, and at the latter place Manna collected, as it is on Monte Gennaro, in the Apennines near Tivoli and at Arienza near Naples. In this excursion Ferber was accompanied by Guettard.

F. florifera. *Scop. carn. n.* 1250.

F. paniculata. *Mill. Ph. dict. n.* 4, is probably as Reichard thought a male plant of F. Ornus.

F. floribus completis. *L. ups.* 304. *Royen* 396.

F. humilior, sive altera Theophrasti, minore and tenuiore folio. *Boerh.* ii. 172.

Ornus. *Dalech.* 83, *cop. in*

F. tenuiori et minori folio. *Bauh. J.* i. *a.* 177, may have been intended for it. (J. Bauhine's description belongs probably to some variety of *F. excelsior* with narrow folioles, found on mountains in the neighbourhood of Lyons.)

MANNA. Pharm. Lond.—Alst. ii. 471. *Bisset ess.* 138. 182. *Blane* 419. 476. 492. *Cartheus.* ii. 209. *Chalm.* i. 80, 100, 124, 127, 147, 165, 177, 183, 215; ii. 5, 34, 73, 113, 149, 165, 177. *Clark J. long voy.* i. 181. 326; *fev.* 22. *Clegh.* 202, 252. *Cull.* ii. 508. *Darw.* ii. 272. *Denm.* i. 261, 269; ii. 515. *Fordyce G. pract.* 150, 167, 207, 217, 305; *fev.* ii. 54; iii. 222, 231. *Fordyce W.* 167. *Herm.* 697. *Hill* 745. *Hillary* 162, 172, 218. 90. *Hoffm.* vi. 24. *Huck in Pringle* 266. *Hume, J. in lett. & ess.* 213, 217. *Hunter jam.* 224. *Lew.* ii. 86. *Lind scam.* 253. *Mead monit.* i. 27, 34, 48; ii. 57. *Monro* ii. 452; *sold.* 365, 372; *G. in lett. & ess.* 268. *Moseley* 16, 178, 442, 541. *Murr.* iii. 542; *J.* i. 260. *Neum.* ii. 67. *Ploucq. bibl.* i. 350. *Pringle* 203. *Quarin febr.* 219, 364, 371, 407; *animad.* 35, 216, 219, 353. *Rush* i. 135. *Rutty* 306. *Spielm.* 622. *Stoll med.* ii. 27, 76, 91, 100, 148, 234, 253, 367; iii. 27, 40, 136, 210, 287; *aph. n.* 808. *Underw.* i. 25, 54, 55, 198*, 358; ii. 33, 68, 121. *Vog.* 331. *Ware opth.* 149. *Wintringh. in Mead monit.* i. 205, 226; ii. 155.

Manna calabrina. *Berg.* 833. *Linn.* 26. *Mill. Jos.* 204.

Manna calabra. *Geoffr.* ii. 581.

F. Ornus. The concrete juice. *Pharm. edin.—Lew. disp. by Dunc.* 226. *Syn.* i. 196.

3. FRAXINUS *caroliniana.* Petals none. Folioles ser-

rate, petiolate, lanceolate, glabrous. Smaller branches glabrous, *From Vahl. enum.* i. 51. *L. a Willd.* iv. 1103. *Mill. Ph. dict. n.* 6. From seeds sent by Catesby.

F. petiolis communibus teretibus, foliolis petiolatis. *Gron. virg.* 161.

F. carolinensis, foliis angustioribus utrinque acuminatis pendulis. *Catesb.* i. 80. *t.* 80. The margin of the folioles represented as entire.

F. caroliniana latiore fructu. *Rand* 79. *Lond. gard.* 33. From seeds sent by Catesby.

FRAXINUS americana. *Schoepf* 154.

11. BOERHAVIA.

Corolla campanulate, plaited, inserted into the calyx. *Calyx* inferior; mouth entire. *Seed* 1, naked, envelloped by the indurated calyx. *From Swartz obs.* 12. *L.—Venten. tabl. t.* 7. *f.* 6.

1. BOERHAVIA *erecta.* Leaves ovate, acute, repandose. Flowers corymboso-paniculate. Fruit clavato-turbinate, pentagonal. *Obs.* 8509. Specimen gathered by Broughton in Jamaica.—*Willd. phyt.* 1. *Swartz. obs.* 10. *L. a Murr.* 52; *sp.* 4. 1675. *Hort. kew.* i. 4. *Gouan. hort.* 2. *Jacq. hort.* i. 2. *t.* 5. 6. *Burm. L. ind.* 3. *t.* 1. *f.* 2.

BOERHAVIA erecta. *Forst. G. esc.* 71, but he describes the stems as procumbent.

α *glabra.* Glabrous. *Obs.* 8509.

Capsule with short white lines apparently strigae, but not to be elevated by a needle, monospermous, not opening. *Obs.* 8509.

β *pubescens.* Stem and petioles pubescent. *Obs.* 8510.

Specimen gathered by Dr. Wright, in Jamaica.

B. erecta. *L. mant.* 315.

Leaves with numerous purplish eminencies, so minute as scarcely to render the surface rough to the hand. *Obs.* 8510.

12. CIRCAEA.

Petals 2, inserted into the calyx. *Calyx* hypocrateriform; limb bipartite. *Capsule* inferior, bilocular. *Seeds* solitary. *Obs.* 1001. *L.*

1. CIRCAEA *ovatifolia.* Upper leaves ovate. *Obs.* 1001. In shady places.

C. lutetiana. *L. suec. n.* 6; *sp.* 12. *Bot. arrang.* 23. *Smith brit.* 13. *R. syn.* 289. *Tourn. paris.* 419. *Vaill. paris.* 38. *Boerh.* i. 78. *Lob. ic.* i. 266, *repr. in Ger. by Johns.* 351, *& cop. in*

C. lutetiana major. *Park theatr.* 351.

C. caule adscendente, racemo unico. *Cutl. in amer. acad.* i. 403.

O. cimastrum verrucarium. *Bauh. J.* ii. 977. The 2 separate flowers well done.

Native of Europe and New England. *Obs.* 7843. Specimen gathered by Dr. Cutler, in New England.

CIRCAEA lutetiana. *Schoepf* 3.

2. CIRCAEA *cordifolia.* Upper leaves cordate. *Obs.* 7858. In the grove below Matlock old bath, in sand, on the banks of the Darwent.

C. alpina. *L. suec. n.* 7; *sp.* 12; *a Murr.* 58. *Huds.* 11. at the foot of mountains in Westmorland and Yorkshire, and about Dallam Tower, in Westmorland, and observed by Hope in Hamilton

wood, Scotland.—*Lightf.* 80. At the foot of mountains about Loch-Broom, Ross-shire, and observed by Burgess at the head of Yarrow-water, in the county of Peebles.—*Bot. arrang.* 24, where at line 7th from the bottom after smooth insert ST.—*Smith brit.* 14. *Krock. n.* 9. *t.* 1.

C. calice colorato. *L. lapp. n.* 3.

C. minima. *Col. ecphr.* ii. 79. *t.* 80. *Boerh.* i. 78.

Stem 4 inches long, with microscopic scattered hairs below; hairs recurvate; above pubescent, with horizontal obtuse hairs. *Petioles* pubescent on the upper side. *Leaves* opposite, cordate, pubescent at the margin. *Peduncle* pubescent; hairs horizontal, obtuse. *Obs.* 7842. In Mr. Knowlton's garden.—*Stem* 5 inches long, glabrous. *Leaves* dentate at the margin. *Obs.* 5237. Specimen from Lheritier.—*Stem* with 13 racemi. *Obs.* 5238. Specimen gathered in the garden of Pitcairn.—*Root* creeping. *Stem* from 7 to 17 inches long, with from 1 to 6 racemi, slightly pubescent. *Leaves* apparently glabrous, but mostly with a few microscopic hairs, pubescent at the margin, the upper surface dull, slightly nitid underneath, the largest of the smallest plant 1 inch 4 tenths long, the largest of the largest plants 3 inches long. *Petioles* slightly canaliculate, and pubescent along the upper side. *Peduncles* patent, pubescent, with straight simple hairs. *Calyx* with a few hairs. *Obs.* 7858.

Native of the mountains of Switzerland, Germany, Scandinavia, Scotland, Cumberland, Westmorland, Furness in Lancashire, Yorkshire, Derbyshire and Merionethshire.

CIRCAEA alpina. *Schoepf* 3.

13. VERONICA.

Corolla, limb quadripartite, lowermost segment the narrowest. *Calyx* quadripartite, quinquepartite, sexpartite, septempartite, and octopartite. *Capsule* with 2 and 3 cells. *Obs.* 4069. *L.*— The Italian vernacular name of *V. officinalis*, according to Camerarius in his epitome.

1. *Racemi terminal.*

1. VERONICA *quinquefolia*. Leaves verticillate, glabrous above. Tube of the corolla twice and a half as long as the limb. *Obs.* 4069. In a garden. 12 Sept.

V. virginica. *L.—H. K.* i. 17.

VERONICA virginica. *Schoepf* 3.

α *alba*. Corolla white. *Obs.* 4069.—*H. K.* α

Stem 4 feet long, erect, slightly hirsute below, and above at the joints. *Leaves* in sixes, fives and fours, 8 tenths of an inch broad, pubescent underneath. *Pedicles* as short again as the calyx. *Calyx* partite, segments unequal, 5 to 8. *Corolla* white, before it is expanded flesh coloured at the end. *Germen* glabrous. *Capsule* with 3 and 2 cells; dissepiments extensions of the edges of the valves. *Obs.* 4069.

β *incarnata*. Corolla flesh coloured. *From H. K.*

2. *Racemi terminal and axillary.*

2. VERONICA *spicata*. Leaves opposite, oblongo-lanceolate, serrate upwards. Stem ascending. *Obs.* 4066. In a garden.—*L.*—*Bot. arrang.* 8. *Smith engl. bot. t.* 2.

V. spicata recta minor. *Bauh. J.* iii. 282.

V. recta minima. *Ger. by Johns.* 627.

Germen pilose. *Obs.* 4066.
VERONICA spicata. *Geoffr. suite* iii. 300.

3. VERONICA *Beccabunga.* Racemi opposite. Capsules orbicular, emarginate. Leaves serrate, oval and oblong. Stem creeping. *Obs.* 3530. Specimen gathered in a brook.—*L. sp.* 16. *Curt. lond.* ii. 3. *t. Walc. t. Bot. arrang.* 12. *Fl. dan. t.* 511. *Woodv.* i. 20. *t.* 7. *Lightf.* 73. *Huds.* 5. *Smith brit.* 20.

V. aquatica major, folio subrotundo. *Tourn. paris.* 311. *Vaill. paris.* 201.

V. aquatica rotundifolia, Becabunga dicta minor. *R. syn.* 280.

Anagallis aquatica. *Dod.* 582, *repr. in Lob. ic.* i. 466, *&*

Anagallis, seu Becabunga. *Ger. by Johns.* 620, *& repr. in*

Anagallis aquatica vulgaris, sive Becabunga. *Park. theatr.* 1236.

Sium seu Lauer. *Fuchs.* 725. *cop. in* 12*mo. ed.* 687. *c.* 277, *and in*

Sion non odoratum. *Trag.* 188, *and*

Anagallis aquatica, flore caeruleo, folio oblongo, major. *Bauh. J.* iii. 791. (The description belongs to V. Anagallis.)

Brooklime. *Sheldr. t.*

Beccabunga. *Riv. monop. irreg. t.* 100.

BECCABUNGA. The herb. *Pharm. lond.*—*Berg.* 19. *Hill* 385. *Lew. disp. by Dunc.* 322. *Murr.* ii. 208. *Rutty* 59. *Schoepf* 4. *Spielm.* 555. *Vog.* 53.

Becabunga. *Lew.* i. 203. *Mead mon.* ii. 121. *Linn.* 40. *Monro* iii. 30.

V. Beccabunga. *Bryant.* 116.

Beccabunga major. *Geoffr.* iii. 160.
Beccabunga minor. *Geoffr.* iii. 161.
Anagallis aquatica. *Alst.* ii. 80. *Dale* 186. *Mill. Jos.* 37.
Brooklime. *Lind scam.* 20.

4. VERONICA *officinalis.* Leaves elliptic, and oval, serrate. Stem procumbent. *Obs.* 6382. On banks, on commons, and on the sides of roads.—*L. suec. n.* 12; *sp.* 14. *Bot. arrang.* 9. *Smith brit.* 16. *Curt. lond.* iii. 1, *t.* the larger of the 2 right hand branches.—*Fl. dan. t.* 248. *Lightf.* 72. *Huds.* 4. *Woodv.* iv. 19. *t.* 219.

V. mas supina & vulgatissima. *Raii syn.* 281. *Boerh.* i. 224. *Tourn. paris.* 165.
V. vulgatior, folio rotundiore. *Bauh. J.* iii. *b.* 282, (misprinted 274.)
V. mas. *Fuchs.* 171. *c.* 59; *cop. in Dalech.* 1319. *abr. in*
Teucrium. *Trag.* 207, *and still more so in*
V. spicata recta major. *Bauh. J.* iii. 282.
V. mas. *Dalech.* 1319, *cop. in*
V. assurgens. *Dod.* 40, *which repr. in*
V. recta mas Matthioli. *Lob. ic.* i. 471, *&*
V. recta mas. *Ger. by Johns.* 627; *and cop. in*
V. mas erecta. *Park. theatr.* 550. Leaves represented as entire at the margin.
V. mas serpens. *Dod.* 40, *repr. in*
V. major septentrionalium. *Lob. obs.* 250,
V. vera et major. *Lob. ic.* i. 471, *& Ger. by Johns.* 626; *and cop. in*
V. mas vulgaris supina. *Park. theatr.* 550. The peduncles represented as leafy.
Veronica. *Cam. epit.* 461. *Tab.* 382.
Racemi opposite and alternate. *Obs.* 3531.

VERONICA. Alst. ii. 244. *Berg.* 17. *Carthcus.* iv. 156. *Herm.* 512. *Linn.* 40. *Murr.* ii. 205. *Neum.* ii. 153. *Quarin febr.* 368. *Spielm.* 395. *Vog.* 88.

V. officinalis. *Schoepf* 4.

V. mas. *Dale* 186. *Geoffr. suite* iii. 295. *Lew.* ii. 448. *Mill. Jos.* 450.

α *caerulea.* Corolla pale blue. *Obs.* 6381.

V. mas supina & vulgatissima. *Vaill. paris.* 200.

β *incarnata.* Corolla flesh-coloured. *Obs.* 6382. On gritstone.

V. mas, supina and vulgatissima, floribus rubellis. *Vaill. paris.* 200.

5. VERONICA *bibarbata.* Leaves ovate, rugose, obtusely serrate, sessile. Hairs of the stem in 2 opposite lines. *Obs.* 3533. In fields.

V. Chamaedrys. *L. suec. n.* 18; *sp.* 17; *mant.* 317. *Bot. arrang.* 13. *Curt. lond.* i. 2. *t. Smith brit.* 12. *Walcot.*

V. foliis cordatis sessilibus oppositis, ramis laxe floriferis. *L. lapp. n.* 8.

V. Chamaedrys sylvestris dicta. *Raii syn.* 281.

V. minor, foliis imis rotundioribus. *Tourn. paris.* 169. *Vaill. paris.* 201. *Boerh.* i. 225.

Chamaedrys vulgaris foemina. *Fuchs.* 826. *c.* 334, *cop. in Dalech.* 1163,

Chamaedrys. *Trag.* 203,

Chamaedrys spuria latifolia. *Bauh. J.* iii. *b.* 286, &

Hierobotane mas. *Dalech.* 1337.

Teucrium pratense, et T. spurium chamaedryoides. *Lob. ic.* i. 490, *repr. in*

Chamaedrys sylvestris. *Ger. by Johns.* 657.

CHAMAEDRYS spuria latifolia. *Dale* 186.

V. rotundifolia. *Geoffr. suite* iii. 298.

β *albescens*. Petals purplish blue when they begin to expand, but when fully expanded white with bluish purple lines. *Obs.* 6617. Gathered by Dr. J. R. Stokes in a field near the Rother, at Chesterfield.

V. minor, foliis oblongis, flore albo. *Vaill. paris.* 201.

6. VERONICA *Teucrium*. The leaves at the base of the peduncles cordato-ovate, bluntish. Calyx quinquepartite, and quadripartite, the intermediate segments one third shorter than the lower. Stems ascending. *Obs.* 3887. In a garden.—*L. sp.* 16; *mant.* 316; *a Murr.* 59. Dr. Smith says there is now no original specimen of it in the Linnaean herbarium.—*Hort. kew.* i. 22.

V. major frutescens altera. *Boerh.* i. 224.

Teucrium I. *Clus. pann.* 613, *repr. in*

Teucrium IV. *Clus. hist.* ii. 349,

Teucrium majus pannonicum. *Ger. by Johns.* 659, *& cop. in*

Chamaedrys spuria major frutescens. *Park. theatr.* 106.

Chamaedrys vulgaris mas. *Fuchs.* 826. *c.* 334, *cop. in Dalech.* 1162,

Chamaedris spuria angustifolia. *Bauh. J.* iii. *b.* 285, *&*

Hierabotane foemina. *Dalech.* 1337.

Teucrium primum Matthioli. *Dalech.* 1165.

Chamaedrys silvestris. *Dod.* 45, *repr. in*

V. supina facie Teucrii pratensis. *Lob. ic.* i. 473,

Teucrii IV tertia species. *Clus. hist.* i. 349, *&*

V. supina. *Ger. by Johns.* 628; *and cop. in*

V. teucrii facie. *Park. theatr.* 551. Leaves narrower than usual, and as the upper appear in the more advanced stages of its growth.

Calyx quinquepartite; the uppermost segment lanceolate, twice as small as the adjoining segments. *Obs.* 7471. In the garden at the Oaks.

VERONICA Teucrium. *Murr.* ii. 207.

V. supina facie teucrii pratensis. *Chom.* 678.

Teucrium. *Lew.* ii. 448. *Vog.* 121.

Teucrium verum. *Cartheus.* iv. 185.

Chamaedrys spuria angustifolia. *Dale* 186.

14. JUSTICIA.

Calyx inferior, with 5 divisions. *Corolla* bilabiate. *Capsule* with 2 cells, opening elastically; dissepiment contrary, inserted into the valves. *Obs.* 6872, 6873. *Hort. kew.* i. 26. *L.*

Nearly allied to *Ruellia.*

1. JUSTICIA *Ecbolium.* Spikes terminal, tetragonous, imbricate. Bracteae oval, oblongo-ovate, acuminate. Leaves oblongo-ovate, acuminate. Upper lip of the corolla linear. *Vahl. enum.* i. 117. *Hort. kew.* i. 26. *L. sp.* 20.

JUSTICIA Ecbolium. *Lour.* i. 29.

2. JUSTICIA *picta.* Racemi axillary and terminal. Flowers verticillate. Leaves elliptic, painted. *Vahl. enum.* i. 128. *L. sp.* 21. *Lour.* i. 29.

FOLIUM BRACTEATUM. Rumph. iv. 73. *t.* 30.

3. JUSTICIA *Gendarussa.* Spikes terminal, leafy. Flowers verticillate. Leaves lanceolate. *From Vahl enum.* i. 134.

J. Gandarussa. *L. fil. suppl.* 85.
GENDARUSSA vulgaris. *Rumph.* iv. 71. *t.* 28.
GENDARUSSA femina. *Rumph.* iv. 72. *t.* 29.

4. JUSTICIA *bivalvis*. Peduncles axillary, trifid. Bracteae ovato-subrotund, nervose, aristate. Leaves ovato-oblong, subcrenate. *Vahl. enum.* i. 149. *L. sp.* 23.
FOLIUM TINCTORUM. Rumph. vi. 51. *t.* 22. *f.* 1. Leaves elliptico-ovate.

5. JUSTICIA *pectoralis*. Corolla bilabiate; the upper lip undivided. Leaves lanceolate, petiolate. Spikes paniculate. Bracteae minute. Antherae 2 to each filament. Stem herbaceous. *From Hort. kew.* i. 27. *Swartz. ind. occid.* 31. *Vahl. enum.* i. 144. *Jacq. amer. ed.* 8*vo.* 4.
GARDEN BALSAM. Graing. 24.

15. GRATIOLA.

Corolla tubular; limb quadripartite and quinquepartite; segments slightly unequal. *Calyx* pentaphyllous. *Stamina* 4, 2 mostly without antherae. *Capsule* of 2 cells, and 2 valves; *dissepiment* contrary to the valves. *Obs.* 5305. 8132. *L.*

1. GRATIOLA *officinalis*. Leaves lanceolate, serrate, longer than the internodia. Flowers pedunculate. *Obs.* 8132. In Mr. Knowlton's garden.—*L. sp.* 24. *Hort. kew.* i. 29. *Pollich n.* 23. *Scop. carn. n.* 27. *Gouan. hort.* 13. At Montpelier.—*Woodv.* i. 132. *t.* 47.
G. officinarum. *Spalowsky* 22. *t.*
G. centauroides. *Vaill. paris.* 95.

Digitalis minima, Gratiola dicta. *Tourn. paris.* 266. *Boerh.* i. 229.
Limnesium sive Centauris. *Cord. fol.* 86. *p.* 2.
Gratiola. *Tab.* 367. *Cam. epit.* 464. *Dalech.* 1085. *Bauh. J.* iii. *b.* 434. *Raii hist.* 1885; *europ.* 139. *Dod.* 358, *repr. in Ger. by Johns.* 581,
G. sive Gratia dei. *Lob. obs.* 238; *ic.* i. 435; *and cop. in*
G. vulgaris. *Park. theatr.* 220.

Stem 14 inches long, erect, slightly compressed, the compressed sides convex, the intermediate sides canaliculate. *Leaves* ovato-lanceolate, opposite, semiamplexicaul, longer than the internodia, serrate above, trinervose, below septemnervose, obscurely dotted. *Peduncles* filiform, axillary, solitary, only 1 at a joint, with a shoot in the opposite axilla. *Bracteae* 2, of the same shape as the leaves, shorter than the peduncle, inserted at the base of the calyx below the 2 lateral of the 3 uppermost phylla, obsoletely serrate. *Calyx* one third shorter than the bracteae; phylla ensiform, unequal, the uppermost the longest, the 2 lowermost just sensibly shorter, the 2 lateral ones just sensibly shorter than the 2 lowermost. *Corolla* nearly thrice as long as the calyx, just sensibly ascending at the end; tube tawny with purplish brown lines, angular; limb quadripartite, purplish flesh-coloured; segments oblong, the uppermost roundish oblong, slightly emarginate, villose within at the base with capitate villi. *Stamina* 2 perfect, 2 barren; the 2 perfect ones inserted at the base of the uppermost segment about the middle of the tube, short; the 2 barren ones at the base of the tube below the lowermost segment, half as long as the corolla. *Nectarium* a glandular yellow ring surrounding the base of the germen. *Ger-*

men superior, ovate, attenuate, bilocular. *Stigma* ovate, slightly concave, oblique. *Obs.* 8132. July, August.

Native of Italy and Switzerland, and of France and Germany as far north as Paris and Bremen.

GRATIOLA. Alst. ii. 144. *Beck, account from in phys. journ.* xi. 435. *Berg.* 24. *Bolduc in acad. sciences abr. by Southw.* iii. 224. *Chom.* i. 29. *Dale* 195. *Duverney in acad. sciences abr. by Southw.* i. 63. *Geoffr.* iii. 530. *Herm.* 540. *Hill* 388. *Hufeland, account from in med. rev.* ii. 447. *Kramer, account from in med. ess.* vi. 377. *Kostrzewski, account from in med. comment.* vi. 141. *Lentin, account from in ann. med.* i. 41. *Lew.* i. 473. *Linn.* 40. *Mill. Jos.* 219. *Monro* iii. 123. *Murr.* ii. 197. *Ploucq. bibl.* i. 419. *Quarin animad.* 184. *Schumacher, account from in med. rev.* vii. 280, *and phys. journ.* vii. 81. *Spalowsky* 22. *Spielm.* 613. *Stoll med.* iii. 431. *Vog.* 103.

G. officinalis. The herb. *Pharm. edin.—Coste and Willemet in med. comment.* v. 298. *Lew. disp. by Dunc.* 229. *Syn.* i. 199. *Murr. J.* i. 304.

2. GRATIOLA *tetrandra.* Leaves obovato-oblong; margin entire. Peduncles with 1 flower. Stamina 4. *Obs.* 5305. Specimen gathered in Jamaica by Broughton.

G. Monnieria. *Swart obs.* 15. *L.—H. k.* i. 29.

Moniera. *Browne* 269. *t.* 28. *f.* 3.

Capsule, dissepiment contrary to the valves. *Obs.* 5305.

GRATIOLA Monnieria. *Roxb. corom. t.* 178.

16. CARANGA.

Calyx diphyllous, one of the phylla larger. *Corolla* shorter than the calyx, the lower lobe broader. *Capsule* covered by the calyx, bivalve, bilocular, with many seeds. *Jussieu in Vahl.*

1. CARANGA *amara*. *Vahl. enum.* i. 100.
SERRATULA amara. *Rumph.* v. 459. *t.* 170. *f.* 1.

17. PINGUICULA.

Corolla with a spur; limb unequal. *Calyx* quinquefid. *Capsule* with 1 cell. *Obs.* 4866. *L.*

1. PINGUICULA *ovata*. Segments of the corolla unequal, rotundate; spur acute. Calyx tripartite; the upper segment trifid. Capsule ovate. *Obs.* 4866. Between Glapwell and Sutton, Nottinghamshire.
P. vulgaris. *L. suec. n.* 25; *sp.* 25. *Bot. arrang.* 16. *Smith engl. bot. t.* 70.
P. Gesneri. *Bauh. J.* iii. *b.* 546. *Tourn. paris.* 517. *Vaill. paris.* 160. *Raii hist.* 751; *syn.* *281, where Dillenius notices its being found on Shooter's-hill and the little bog at Charlton, where it was sown, he says, by James Sherard. If these bogs are in existence it would be curious to ascertain if the plant has perpetuated itself in its new abode, during the course of upwards of 70 years. —*Clus. pann.* 361, *repr. in hist.* i. 310, &c.
P. sive Sanicula eboracensis. *Ger. by Johns.* 788. *Park. theatr.* 532.

Cucullata. *Dalech.* 1206.

Stem 8½ inches long. *Obs.* 8005. Specimen gathered on Cannock Heath, Staffordshire.

Native of Italy, France, Switzerland, Germany, Scandinavia and Britain.

PINGUICULA. Dale 192. *Geoffr. suite* i. 420. *Lew.* ii. 222.

18. VERBENA.

Corolla infundibuliform, quinquefid; segments unequal. *Calyx* with 5 teeth, or bifid. *Capsule*, mostly so thin as to be scarcely perceptible. *Seeds* 2 or 4. *Obs.* 3069, 4145, 3009. *L.*

1. *Stamina* 2. L.

1. VERBENA *indica.* Spikes very long, fleshy, naked, Leaves lanceolato-ovate, obliquely dentate. Stem smooth. *L. sp.* 27; *mant.* 317; *a Murr.* 66; *a Reich.* i. 52, where as also in L. a Willd. i. 115, the description of the sp. pl. is omitted.—*Hort. kew.* i. 31.

2. VERBENA *ellipticifolia.* Spikes several times longer than the leaves, leafless. Leaves elliptic or oval, serrate. Stem hirsutulous. *Obs.* 7140. From Mr. Hunter's nursery.

α *acuta.* Leaves elliptic, acute. *Obs.* 7140.

V. indica *L?* but the stem is described as smooth without hairs, and the leaves as not serrate but dentate, with oblique obtuse teeth.

Stem square, scabrous; hairs inflex, the upper portion adpressed or parallel to the stem. *Leaves* gla-

brous to the touch, the margin obsoletely scabrous; serratures unequal. *Petioles* scabrous as the stem. *Spikes* terminal, solitary, to 10½ inches long, flexuose, with about 2 flowers in blossom at once, the lower part sometimes with patulous stipulae without flowers. *Peduncle* with longitudinal depressions filled up by the flowers. *Stipulae* ovato-subulate, adpressed. *Calyx* tubular, depressed, plaited; mouth with 4 teeth; teeth triangular, erect, 2 on the anterior side, the 2 lateral ones half as long again as the anterior ones. *Corolla* deep purplish blue; limb deeply quadrifid; segments roundish, incumbent, unequal. *Stamina* 2, in the lower part of the tube. *Filaments* glabrous, short, white. *Antherae* linear, bilocular; one cell at each end. *Pollen* tricocco-triangular. *Pistil* longer than the tube of the corolla. *Stigma* turbinate. *Obs.* 7140.

β *obtusa.* Leaves oval. *Obs.* 7141. Specimen gathered by Broughton in Jamaica.

V. jamaicensis. *L.—Hort. kew.* i. 31.

V. procumbens ramosa, foliis majoribus, spicis longissimis lateralibus. *Browne* 116.

Leaves with a few hairs along the costa on each side; teeth ovate. In other respects similar to α. *Calyx* tubular, plaited, depressed; mouth with 4 teeth, and similar in all respects to that of α. *Obs.* 7141.

VERBENA jamaicensis. *Wright in med. journ.* viii. 289.

Vervain. *Graing.* 65, 67. *Wright in Graing.* 85. *Moseley* 504.

2. *Stamina* 4. L.

3. VERBENA *lappulacea.* Fruit muricate, composed of 2 seeds. *Seeds* bilocular. *Obs.* 8007. Speci-

men gathered by Broughton in Jamaica.—*L. sp.* 28.

Scorodonia floribus spicatis purpurascentibus pentapetaloideis, semine unico majori echinato. *Sloane cat.* 66.

Calyx pubescent; hairs incurvate. *Fruit* turbinate, compressed, quadrilateral; sides rugose; angles muricate; when cut transversely apparently quadrilocular. *Nuclei* oval. *Obs.* 8007.

VERBENA foliis cordato-ovatis, floribus spicatis, calicibus inflatis, seminibus echinatis. *Browne* 116, who says it has 4 stamina.

4. VERBENA *urticifolia*. Spikes filiform, paniculate. Leaves undivided, ovate, serrate, acute, petiolate. *L. sp.* 29. *Hort. kew.* i. 33.

V. tetrandra, spicis filiformibus paniculatis, foliis indivisis serratis petiolatis. *L. ups.* 9. *Gron. virg. ed.* ii. 4.

V. canadensis, folio urticae. *Boerh.* i. 187.

VERBENA. Schoepf 4.

5. VERBENA *officinalis*. Spikes filiform, paniculate. Leaves inciso-pinnatifid. Stem solitary. *Obs.* 4145. On the sides of roads near villages and houses, and in courts in country places.—*L. suec. n.* 30. Found by Leche about Helsingburg, but believed by Linnaeus to have been wafted by the sea to Sweden;—*sp.* 29. *Pollich. n.* 26. *Lour.* i. 33. In Cochinchina and China.—*Mill. Ph. dict. n.* 1. Never found above a quarter of a mile from a house.—*Curt. lond.* i. 5. *t. Lightf.* 78. *Scop. carn. n.* 749, placing it after Mentha at the end of the order Gymnospermia of the class Didynamia, considering it as a genus connecting the Personatae to

the Verticillatae.—*Huds.* 249, placing it between Nepeta and Mentha, apparently regarding it with Ray as really belonging to the Verticillatae, in which disposition he has been followed by *Walc. t. Relh.* 221. *Sibth.* 181, & *Smith brit.* 608.—*Bot. arrang.* 595, where it is acknowledged to be erroneously placed in the order Gymnospermia of the class Didynamia.—*Woodv.* iv. 17. *t.* 218.

V. communis, caeruleo flore. *Tourn. paris.* 309. *Vaill. paris.* 200. *Boerh.* i. 187.

V. recta. *Trag.* 210.

Verbenaca recta. *Dod.* 150, *cop. in Dalech.* 1336, & *repr. in*

V. communis & sacra recta. *Lob. ic.* i. 535, &

V. communis. *Ger. by Johns.* 718, & *cop. in*

V. vulgaris. *Park theatr.* 675. *Raii hist.* 535, describing the corolla as pale blue;—*syn.* 236. *Bauh. J.* iii. 443, justly describing the corolla as pale purplish; *improved from*

Verbenaca supina, sive foemina. *Fuchs.* 566. *c.* 226.

Corolla whitish purplish. *Obs.* 4145.

Root *perennial* according to Ray and Curtis, Sibth. Salisb. W. and Smith; *biennial* according to Huds. Hort. kew. and Donn; *annual* according to Boerh. Linn. and Lightf. Are we hence to conclude that it is sometimes perennial, sometimes biennial and sometimes annual, or to learn how little dependence in investigating plants is to be placed on the marks even of cultivating botanists, when we observe Curtis, Aiton and Boerhaave holding opposite opinions?

VERBENA. Alst. ii. 542. *Dale* 148. *Geoffr. suite* iii. 287. *Herm.* 558. *Lew.* ii. 447. *Linn.* 41. *Mill. Jos.* 449. *Murr.* ii. 209. *Ploucq. bibl.* i. 437. *Rutty* 534. *Spielm.* 232. *Vog.* 140.

19. LYCOPUS.

Corolla quadrifid, one of the segments emarginate. *Stamina* distant. *Seeds* 4, naked, retuse. *Obs.* 5304. *L.*

1. LYCOPUS *europaeus*. Leaves inciso-serrate towards the base. *Obs.* 5304. On the sides of pools. —*L. suec. n.* 31; *sp.* 30. *Curt. lond.* iii. 2. *t.* 201. *Bot. arrang.* 20. *Pollich n.* 27. *Smith brit.* 29.

L. palustris glaber. *Boerh.* i. 186. *Dill. ap. Raii syn.* 236. *Tourn. paris.* 287. *Vaill. paris.* 123.

Marrubium aquaticum. *Trag.* 9. *Raii syn. ed.* ii. 125; *hist.* 535. *Ger. by Johns.* 700, *repr. from*

Marrubium aquatile. *Dod.* 585, *which repr. in*

Marrubium aquaticum vulgi. *Lob. ic.* i. 524, *and cop. in*

Marrubium aquaticum vulgare. *Park. theatr.* 1230.

Marrubium aquaticum quorundam. *Bauh. J.* iii. *b.* 318.

L. palustris villosus. *Tourn. paris.* 288. *Vaill. paris.* 123.

Sideritis prima Matthioli. *Dalech.* 1117.

Stem & leaves slightly hirsute or pubescent. *Obs.* 5304.

LYCOPUS. Dale 147.

β *pinnatifidus*. Leaves pinnatifid below. *Obs.* 8508. Specimen gathered by M. Broussonett, probably near Montpelier.

20. CUNILA.

Corolla ringent; upper lip erect, flat. *Stamina* 2, with the rudiments of 2 others. *Seeds* 4, naked. *L.*

The description in *L. gen. n.* 35, accords with *Melissa* excepting in having only 2 perfect stamina.

1. CUNILA *mariana.* Leaves ovate, serrate. Corymbi terminal, dichotomous. *L. sp.* 30. *Hort. kew.* i. 35. *Michaux* i. 13. *Vahl. enum.* i. 213.
Satureia. *Gron. virg.* 88.
Thymus. *Gron. virg. ed.* i. 64.
Calamintha mariana mucronatis rigidioribus & crenatis foliis, flosculorum calyculis villis argenteis summo margine fimbriatis. *Pluk. mant.* 34. *t.* 344. *fol.* 35. *pl.* 1.
Calamintha erecta virginiana, mucronato folio glabro. *Hist. ox.* iii. 413. *s.* 11. *t.* 19. *f.* 7.
CUNILA mariana. *Schoepf* 6.

21. MONARDA.

Corolla ringent; the upper lip linear, entire, involving the filaments. *Seeds* 4, naked. *Obs.* 3084. *L.*

1. MONARDA *fistulosa.* Leaves lanceolato-ovate, villose underneath. *Obs.* 6089. In Miss Wood's garden.—*Hort. kew.* i. 36. *L. sp.* 32.
M. floribus capitatis & verticillatis, caule acute angulato, foliis lanceolatis serratis glabris. *Trew-ehret.* 31. *t.* 44, adopting a specific character from Buttner.
Clinopodium canadense fistulosum, foliis saturatius virentibus & hirsutis. *Boerh.* i. 158.
Origanum fistulosum. *Corn.* 13. *t.* 14, *cop. in*
Clinopodium canadense majus hirsutum, floribus fistulosis. *Hist ox.* iii. 374. *s.* 11. *t.* 8. *f.* 2.
Stem, angles rounded. *Leaves* petiolate, blackish

green. *Heads* roundish. *Bracteae*, the outer purplish brown. *Flowers* closely crowded. *Corolla* crimson; upper lip with the margins rolled in so as to form a kind of tube; lower lip trilobate, lateral lobes rounded, middle lobe elongate linear bifid at the end. *Filaments* crimson. *Obs.* 6089.

MONARDA fistulosa. *Schoepf* 6.

Monarda. *Linn.* 41. *Zigman, account from in med. rev.* i. 93.

α *kermesina.* Corollae crimson. *Obs.* 6089.—*Curt. mag. t.* 145.

Leaves dotted on both sides, obscurely so on the upper; the inner *floral leaves* slightly tinged of a reddish hue. *Heads* hemispheric, the central florets flowering first. *Stamina* 2, inserted into the base of the lower lip. *Obs.* 6089.

β *rubescens.* Corolla whitish with a tinge of rose-colour. *Obs.* 3084.

2. MONARDA *didyma.* Stamina 2, with the rudiments of 2 filaments on the upper lip. *Obs.* 459. In a garden.

M. didyma. *L. sp.* 32. *Hort. kew.* i. 36. *Curt. mag. t.* 546. *Mill. Ph. dict. n.* 2. Each lip has 2 stamina terminated by antherae, and many flowers have 2 shorter stamina without antherae.

Leaves cordate and ovate. *Flowers* in heads. *Peduncles* several times shorter than the calyx. *Corollae* scarlet. *Filaments* of the 2 barren stamina inserted at the base of the upper lip, very short, and sometimes scarcely any. *Obs.* 459.

MONARDA didyma. *Schoepf* 7. *Zigman, account from in med. rev.* i. 93.

22. ROSMARINUS.

Corolla ringent; the upper lip bifid. *Filaments* crooked, with a tooth. *Seeds* 4, naked. *Obs*. 889. *L*.

1. ROSMARINUS *officinalis*. *L. sp.* 33. *Hort. kew.* i. 37. *Scop. carn. n.* 30. In Istria.—*Host.* 15. In Littorale, near Porto Re.—*Woodv.* ii. 239. *t.* 87.

Native of the sea coast of the Mediterranean, and also of Switzerland.

* *angustifolius*. Leaves linear, white underneath. *Obs.* 889. In a garden.

R. hortensis, angustiore folio. *L. sp.* 33 β *Gouan monsp.* 17 β *Boerh.* i. 179. *Magn. hort.* 174, where γ is not noticed.

R. angustifolia. *Mill. Ph. dict. n.* 1.

Rosmarinus. *L. ups.* 11. *Fuchs.* 467. *c.* 182, *cop. in Trag.* 55, *which repr. in*

R. minor. *Cord. fol.* 148. *p.* 2, *& cop. in*

R. coronarius fruticosus. *Bauh. J.* ii. 25. *Raii hist.* 515. *Magn. monsp.* 223.

R. coronaria. *Dod.* 272, *cop. in*

Libanotis coronaria, sive Rosmarinum vulgare. *Park. theatr.* 74, *& repr. in*

Rosmarinum coronarium. *Lob. ic.* i. 429, *& Ger. by Johns.* 1292. *Dalech.* 967.

R. coronarius. *Raii europ.* 220. On rocky hills near the sea coasts of Italy and the south of France.

ROSMARINUS. The top and flower. *Pharm. lond.*—*Alst.* ii. 209. *Berg.* 20. *Cartheus.* iii. 102. *Cull.* ii. 151. *Dale* 141. *Fordyce, W. fragm.* 39. *Geoffr. suite* ii. 260. *Herm.* 461. *Hill* 426. *Lew.* ii. 280. *Mill. Jos.* 377. *Monro* iii. 237. *Murr.*

ii. 171; *J.* i. 289. *Quarin febr.* 80; *animad.* 10. *Rutty* 435. *Spielm.* 290. *Vog.* 78, 150. *Wintringham in Mead mon.* i. 230.

R. officinalis. The flowering tops. *Pharm. edin.*—*Bryant* 141. *Lew. disp. by Dunc.* 297. *Syn.* i. 112, 295; ii. 197.

R. hispanicus sive hortensis. *Linn.* 41.

Anthos. *Pharm. austriaco-prov.*—*Berg.* 20. *Linn.* 41. *Murr.* ii. 171. *Quarin animad.* 17.

Rosemary. *Neum.* ii. 183. *Chalm.* ii. 116. *Kirkland apopl.* 98, 143.

β *auratus*. Leaves with yellow blotches. *Obs.* 7997. In Mr. Shore's garden.

R. striatus, sive aureus. *Boerh.* i. 180.

Rosmarinum aureum. *Park. parad. t.* 423. *f.* 6.

Rosmarinum striatum, sive aureum. *Park. parad.* 425; *theatr.* 74. No fig.

(Gold striped Rosemary. *Mill. Ph. dict.* is said by Miller to be a variety of γ)

γ *latifolius*. Leaves green underneath. *From Miller.*—*L. sp.* 33 α *Gouan monsp.* 17 α

R. latifolia. *Mill. Ph. dict. n.* 2.

R. spontaneus, sive latifolius. *Boerh.* i. 180.

Rosmarinus. *Royen* 310.

R. spontaneus latiore folio. *Raii hist.* 514.

ROSMARINUS spontaneus, latiore folio. *Boecl. ap. Herm.* 462.

23. SALVIA.

Corolla ringent. *Filaments* fixed transversely to a pedicle. *Seeds* 4, naked. *Obs.* 5265. *L.*

1. *Upper lip of the calyx entire.*

1. SALVIA *glutinosa*. Leaves cordato-sagittate, ser-

rate, acute. *L. sp.* 37. *Hort. kew.* i. 44. *Scop. carn. n.* 33. *Host.* 17. *Krock. n.* 44.

Sclarea glutinosa, floris lutei variegati barba ampla cava. *Boerh.* i. 164.

Colus jovis. *Clus. pann.* 577. No fig. *Lob. ic.* i. 557, *repr. in Ger. by Johns.* 769,

Horminum sylvestre secundum. *Clus.* ii. 29,

Orvala tertia. *Dod.* 291, *and abr. in*

Galiopsis species lutea viscida odorata nemorensis. *Bauh. J.* iii. *b.* 314; *the upper half cop. in*

Colus jovis. *Dalech.* 966, *&*

Coli jovis flores. *Park. theatr.* 58; *and the lower half cop. in*

Phlomos Lychnitis altera syriaca. *Dalech.* 1304, *&*

Horminum luteum sive Colus jovis. *Park. theatr.* 58.

Galeopsis lutea. *Dalech.* 1248. The posterior angles of the leaves rounded.

Horminum luteum glutinosum. *Raii europ.* 147.

Calyx, upper lip entire. *Obs.* 3267. Specimen from Prof. Jos. F. Jacquin.

Native of Italy, the south of France, Switzerland, and Germany as far north as Nuremberg and Frankfort upon the Oder.

HORMINUM β *Vog.* 104.

2. *Upper lip of the calyx emarginate.*

2. SALVIA *Horminum.* Leaves oblong, and ovate, serrato-crenate. Flowers verticillate. Uppermost floral leaves coloured, without flowers. *Obs.* 6055. In a garden.—*L. sp.* 34. *Hort. kew.* i. 39.

Horminum. *Dalech.* 964. *Dod.* 292, *repr. in Lob. ic.* i. 555, *&*

Horminum sylvestre foliis purpureis. *Ger. by Johns.* 771, *& cop. in*

Horminum genuinum sativum Dioscoridis. *Park. theatr.* 56.

Leaves cauline, lower oblong, upper ovate. *Calyx*, upper lip straight, keeled, truncate, emarginate, lobes repandose, their outer angles mucronate. *Corolla* whitish, the upper lip brownish purple, a little longer than the lower; lower lip, middle segment obreniform flat, horizontal, the lateral ones oval, erect, as short again as the middle one. *Obs.* 6055.

HORMINUM. Alst. ii. 148. *Berg.* 24. *Linn.* 42.

Horminum sativum. *Cartheus.* iii. 111. *Dale* 149. *Lew. disp. by Rother.* 171.

α *violacea.* Uppermost bracteae violet-coloured. *Obs.* 6055. *Hort. kew.* α

Horminum coma purpureo-violacea. *Bauh. J.* iii. 309.

Horminum sativum. *Raii hist.* 542. *Boerh.* i. 166.

β *rubens.* Uppermost bracteae pink. *Obs.* 5271. Specimen gathered in the garden of Fothergill.—*Hort. kew.* β

Horminum coma rubra. *Bauh. J.* iii. 309. *Boerh.* i. 166.

3. *Upper lip of the calyx with 3 teeth; teeth connivent.*

3. SALVIA *pratensis.* Leaves cordato-oblong, cordato-lanceolate, and lanceolato-oblong, doubly crenate. Bracteae as long as the calyces. Helmet of the corolla glutinous. *Obs.* 4400. Specimen gathered in Surry, on chalk.—*L. suec. n.* 32; *sp.* 35. *Bot. arrang.* 21. *Smith engl. bot. t.* 153; *brit.* 30.

Sclarea pratensis, foliis serratis, flore caeruleo. *Tourn. paris.* 142. *Vaill. paris.* 180. *Boerh.* i.

164. *Dill. ap. Raii syn.* 237. Found by Watts in Cobham park, Kent.

Orminum sylvestre. *Fuchs.* 547. *c.* 217. *cop. in*

Chamaedrys alpina flore fragariae albo. *Bauh. J.* iii. *b.* 290, (the name and description is that of Dryas octopetala,)

S. sylvestris. *Trag.* 53, *&*

Orvala sylvestris, species quarta. *Dod.* 291, *which repr. in*

Horminum sylvestre Fuchsii. *Ger. by Johns.* 769, *& cop. in Dalech.* 965, best express the plant, but Vaillant refers them to his *Sclarea foliis profunde incisis* 180, *n.* 2, the *S. pratensis* β *Willd. berol. n.* 62, a variety which I have not seen.

Gallitrichi varietas. *Bauh. J.* iii. 311, seems to be the before mentioned variety of Vaillant.

Horminum pratense foliis serratis. *Raii hist.* 544; *europ.* 147. Common in Germany.

Hormini silvestris secundi prima species. *Clus. pann.* 579, *repr. in*

Hormini silvestris quarti prima species. *Clus. hist.* ii. 30,

Horminum silvestre. *Lob. ic.* i. 556,

Horminum sylvestre, flore rubro. *Ger. by Johns.* 772, *& cop. in*

Horminum sylvestre italicum. *Park. theatr.* 56, *&*

Gallitrichum silvestre vulgo, sive silvestris Sclarea, flore purpureo caeruleove magno. *Bauh. J.* iii. *b.* 311.

Leaves, the uppermost at the base of the flowering branches sessile, the pair next below sometimes on petioles. *Obs.* 4401. Specimen gathered between Charleville and Paris.—*Calyx* hirsute, hairs globular at the ends; upper lip with 3 teeth at the end, the middle tooth shorter. *Obs.* 4400.

Native of France, Germany, Sweden, Kent, Sussex, Surry, Gloucestershire, Oxfordshire and Bedfordshire, probably all in calcareous soil.

SALVIA pratensis. *Cartheus.* iii. 111. *Krock. n.* 42.

Sclarea pratensis. *Dale* 150.

Sclarea. *Geoffr. suite* ii. 420.

Horminum α *Vog.* 104, 162.

4. SALVIA *Verbenaca.* Leaves cordato-oblong, sinuato-crenate and doubly crenate, rugose. Corolla a little longer than the calyx. *Obs.* 539. Near Worcester on marle.—*L. sp.* 35. *Bot. arrang.* 22. *Smith engl. bot. t.* 154; *brit.* 31. *Gouan hort.* 19. Near Montpelier.

Horminum silvestre quartum, lavendulae flore. *Clus. pann.* 580. No fig.—Native of Spain and England.

Hormini secundi species tertia. *Clus. pann.* 582, *repr. in*

Horminum sylvestre. *Ger. by Johns.* 771, *and cop. in*

Horminum sylvestre lavendulae flore. *Park. theatr.* 57. *Raii hist.* 545; *syn.* 237. *Vaill. paris.* 105. *Boerh.* i. 165.

(Sideritis querno folio. *Dalech.* 1121, &

Gallitrichis affine Maru, si non genus aliquod, Sclarea hispanica Tabernae montani. *Bauh. J.* iii. *b.* 313, without any figure, cannot be the plant, as he describes it as having no distinguishable scent.)

Calyx, upper lip with 3 teeth at the end; hairs globular at the end. *Obs.* 539.

Native of Spain, France, Franconia, and Britain.

HORMINUM sylvestre. *Mill. Jos.* 234.

Oculus Christi. *Dale* 149.

4. *Upper lip of the calyx with 3 teeth; teeth straight.*

5. SALVIA *Sclarea.* Leaves cordate, obtuse, crenate, rugose, villose. Bracteae coloured, longer than the calyx, concave, acuminate. *Obs.* 976. In a garden.—*L. sp.* 38. *Hort. kew.* i. 45. *Gouan hort.* 20. Near Montpelier.—*Host.* 18. In Litorali.—*Roth. germ.* ii. 33. At Frankfort on the Oder.

Sclarea. *Boerh.* i. 163. Native of Holland.—*Vaill. paris.* 179.

Horminum Sclarea dictum. *Magn. monsp.* 133.

Orminum sativum. *Fuchs.* 547. *c.* 217, *cop. in*

Gallitricum. *Trag.* 49, *&*

Gallitrichum sativum. *Bauh. J.* iii. *b.* 309.

Orvala. *Dod.* 290, *repr. in*

Scarlea. *Lob. ic.* i. 556,

Gallitricum, sive Horminum. *Ger. by. Johns.* 768, *and cop. in*

Horminum sativum vulgare, sive Sclarea. *Park. theatr.* 55.

Gallitricum, sive Sclarea. *Dalech.* 966.

Horminum sativum. *Park. parad.* 478. *t.* 481. *f.* 1.

Calyx, teeth subulate, somewhat spinose; upper lip with 3 teeth. *Obs.* 976.

Native of Italy, France, Holland, and Germany, as far as Frankfort on the Oder, possibly in some of the more northern situations only the refuse of gardens.

SCLAREA. Dale 150. *Linn.* 43. *Murr.* ii. 170.

S. Sclarea. *Bryant* 128.

Horminum Sclarea dictum. *Herm.* 460.

Horminum hortense. *Mill. Jos.* 234.

Horminum. *Geoff.* iii. 588. *Lew.* i. 498. *Rutty* 238.

6. SALVIA *lanata*. Leaves oblong, sinuato-dentate, woolly. Calyces woolly, spinose. Bracteae recurvate, spinose. *Obs*. 5270. Specimen from Prof. Jos. F. Jacquin.

S. Aethiopis. *L. sp*. 39. *Hort. kew*. i. 46. *Sibth. prodr. n*. 66.

Sclarea vulgaris lanuginosa, amplissimo folio. *Boerh*. i. 163.

Æthiopis multis. *Bauh. J*. iii. *b*. 315.

Aethiopis. *Dalech*. 1306. *Raii hist*. 543. *Dod*. 148, *repr. in Ger. by Johns*. 779, *Lob. obs*. 304, *&*

Aethiopis Phlomitis. *Lob. ic*. i. 566, *and cop. in*

S. aethiopica, sive Æthiopis, laciniatis & non laciniatis foliis. *Park. theatr*. 57.

Calyx with ochre-coloured granules; upper lip with 3 teeth, the middlemost tooth the smallest. *Corolla* with ochre-coloured granules. *Obs*. 5270.

AETHIOPIS. *Dale* 150. *Diosc. l*. 4. *c*. 105. *Plin. l*. 27. *c*. 4.

7. SALVIA *verticillata*. Leaves sagittato-cordate, and lyrato-pinnate, crenate. Bracteae shorter than the whorls. Style incumbent on the lower lip of the corolla. *Obs*. 5284. Specimen gathered in the Vienna garden, and in that of Fothergill.—*L. sp*. 37. *Hort. kew*. i. 44. *Scop. carn. n*. 34. *Host* 17. *Roth. germ*. i. 12.

Lamium maximum foetens purpureum galea hormini. *Boerh*. i. 158.

Horminum sylvestre latifolium. *Raii hist*. 546; *europ*. 146. *Ger. by Johns*. 771, *repr. from*

Horminum silvestre latifolium alterum. *Clus. pann*. 770, *repr. in*

Horminum silvestre tertium. *Clus. hist*. ii. 29, *and cop. in*

Horminum germanicum humile. *Park. theat*. 56.

Gallitricho affinis planta. *Bauh. J.* iii. *b.* 314.

Calyx, upper lip with 3 teeth, the middlemost the shortest. *Obs.* 5284.

Native of Carniola, Stiria, Austria, Thuringia, Misnia and Saxony.

HORMINUM sylvestre. *Dale* 149.

5. *Upper lip of the calyx semitrifid.*

3. SALVIA *officinalis*. Leaves lanceolato-ovate, and oblongo-elliptic, crenulate, reticulate. Racemi verticillate. Calyx bilabiate; segments acute. *Obs.* 7945. In a garden.—*L. sp.* 34. *Hort. kew.* i. 38. *Scop. carn. n.* 31. On mountains near the sea coast.—*Woodv.* i. 110. *t.* 38. *Blackw. t.* 10. *Knorr del.* ii. *t. S.* 14.

S. foliis lanceolato-ovatis integris crenulatis, floribus spicatis, calycibus acutis. *L. ups.* 10.

S. major, an Sphacelus Theophrasti. *Boerh.* i. 166.

Salvia. *Cam.* 475, *with a calyx which expresses its specific character.*

S. latifolia. *Trag.* 52, *and Bauh. hist.* iii. *b.* 304, *cop. from*

S. major. *Fuchs.* 250, *c.* 93. *Park. parad. t.* 475. *f.* 6. *Dalech.* 879. *Dod.* 288, *repr. in Ger. by Johns.* 764, *&*

S. major, scabrior Dioscoridis. *Lob. ic.* i. 554, *and cop. in*

S. major vulgaris. *Park. theatr.* 49.

SALVIA major. *Cartheus.* iii. 107. *Geoffr. suite* ii. 329. *Monro* iii. 245.

S. officinalis. The leaves. *Pharm. edin.*—*Bryant* 142. *Lew. disp. by Dunc.* 301. *Syn.* i. 92; ii. 198. *Murr. J.* i. 324. *Krock. n.* 46.

S. hortensis major. *Dale* 140. *Mill. Jos.* 386. *Rutty* 454.

Salvia. Sage. The leaves. *Pharm. lond.—Alst.* ii. 215. *Berg.* 22. *Cull.* ii. 152. *Heberd.* 3. *Herm.* 464, 573. *Hill* 371. *Lew.* ii. 323. *Linn.* 42. *Murr.* ii. 164. *Ploucq. bibl.* i. 486. *Quarin febr.* 47, 95, 240; *animad.* 91. *Schoepf* 7. *Spielm.* 293. *Stoll med.* ii. 38, 167, 171, 404. *Vog.* 79.

Sage. *Blane* 396. *Chalm.* i. 167; ii. 116, 165. *Cull. clin.* 229. *Darw.* ii. 59, 194, 219, 251. *Fordyce G. fev.* iii. 215. *Hume, J. in lett. & ess.* 218. *Pringle* 139. *Rush* i. 112. *Underw.* ii. 65.

Native of the south of Europe.

α *viridis.* Leaves green. *Obs.* 7945.

Green Sage. *Mill. Ph. dict. n.* 1. *var.* 1.

Leaves sprinkled with minute white globules, oblongo-lanceolate, ovato-oblong, sometimes ovate, generally unequal at the base, crenulate, bluntish, whitish green. *Stem* whitish green, villose. *Calyx* slightly woolly, with numerous minute globular glands; upper lip semitrifid, the middle segment shorter and broader than the other 4; lower lip more deeply divided than the upper; pentagonal, costate; ribs, 3 between the two lowermost angles, 1 between the uppermost angle and each of the lateral angles, and 2 between the lateral angles and the lower angle of each side. *Corolla*, lower lip entire. *Germina* 4, oval-roundish, on a receptacle. *Receptacle* turbinato-subrotund, fleshy, a little prominent on the lower side, with 4 obsolete teeth. *Obs.* 7945.

β *rubra.* Leaves reddish. *Obs.* 7946. In a garden.

Red Sage. *Mill. Ph. dict. n.* 1. *var.* 4.

Stems reddish dirty purple, pubescent. *Leaves* ovate, midrib and veins on the upper surface reddish dirty purple, crenulate, purplish green. *Calyx* bi-

labiate; upper lip semitrifid, the middle segment as short again as the other two, and not so tapering. *Corolla* purplish blue; *lower lip* obcordate, dotted towards the base with minute dots of a deeper purple; *throat* with a whitish purple line running along the middle. *Obs.* 7946.

γ *absinthites.* (Variation.) Leaves tasting somewhat like Wormwood. *Obs.* 7947. Specimen from an old herbarium formed in England.

S. absinthites. *Johns. in Ger. by Johns.* 764, *n.* 7. No fig.—*Raii hist.* 511.

S. minor altera flore rubente. *Park. theatr.* 50. No fig.

Wormwood Sage. *Mill. Ph. dict. n.* 1. *var.* 2.

S. absinthium redolens. *Bauh. J.* iii. *b.* 307. *Boerh.* i. 167.

6. *Calyx quinquefid.*

9. SALVIA *lavandulifolia.* Leaves lanceolate and lanceolato-oblong, crenulate, reticulate. Racemi verticillate. Segments of the calyx nearly equal. *Obs.* 5264. In a garden.

S. lavandulaefolia. *Vahl. enum.* i. 222.

α *acutifolia.* Leaves lanceolate. Plant tomentose, smaller than β in all its parts. *Specimens* in Sir Jos. Banks's herbarium under the following titles, "Herb. Miller. (1.) from the province of Granada, in Spain & (2.) from the Chelsea garden, in 1732, Houston."

S. hispanica. *Mill. Ph. dict. n.* 4.

S. hispanica, lavandulae folio. *Tourn. inst.* 181.

Leaves sometimes of the colour of those of Lavender, but broader, as observed by Casp. Bauhine, less tomentose above, in the specimen from Chelsea. *Specimens* above mentioned.

SALVIA hispanica. *Geoffr. suite* ii. 333.

β *obtusifolia.* Leaves mostly rounded at the end. *Obs.* 5264. Specimen from the Chelsea garden.

S. officinalis β *Linn. sp.* 34.

S. auriculata. *Mill. dict. n.* 3.

S. minor aurita, & non aurita. *Bauh. Casp. pin.* 237. *Blackw. t.* 71. *Tourn. inst.* 181.

S. minor. *Dod.* 290, *repr. in Lob. ic.* i. 555, *and Ger. by Johns.* 764. *Tab.* 371, *repr. in Ger.* 623. *Cam. epit.* 476. *f.* 2, the best representation of it, with a figure of the calyx expressing its specific character.—*Fuchs.* 250. *c.* 93. *cop. in*

S. minor auriculata. *Bauh. J.* iii. *b.* 305, &

S. angustifolia. *Trag.* 52. *Clus.* i. 342. No fig. In Spain.

S. minor, sive primata. *Park. theatr.* 50; *parad.* 478. *t.* 475. *f.* 7.

S. minor, sive Sphacelus. *Matth.* 710, the fig. with auriculate leaves.

Sphacelus verus Theophrasti. *Dalech.* 880.

La petite Sauge. *Regn.*

Sphacelus. *Theophr. l.* 6. *c.* 2.

S. minor, aurita & non aurita. *Boerh.* i. 166.

Stems woody at the base, ascending. *Leaves* oblongo-lanceolate, rugose, with white sessile globules. *Flowers* verticillate, generally 6 in a whorl. *Peduncles* upright, not half so long as the calyx. *Calyx* very slightly compressed, semiquinquefid, scarcely bilabiate, ribbed; ribs numerous, elevated, slightly villose, the spaces between sprinkled with greenish globules; upper lip semitrifid. *Corolla* bluish purple, twice as long as the calyx, pubescent without; tube thrice as short as the calyx, slightly compressed, whitish; throat wrinkled, slightly keeled above, depressed underneath, twice as long as the tube, closed

within at the base by a circle of whitish hairs; *upper lip* oblong, straight; *lower lip* nearly twice as long as the upper, marked with 2 oblong club-shaped white blotches irregularly dotted with purple; lateral segments reflected, oblong, with a minute obsolete tooth at the end; middle segment obcordate, with 2 blotches of a deeper hue at the base. *Stamina* 4, in 2 pairs, each pair supported by a common filament. *Common filaments* 2, from the lower side of the throat near to where it joins the base of the upper lip, whitish, supporting a cross arm like the top of a crutch; *partial filaments* 2 to each common filament, one bowed upwards, the other downwards, each supporting an anthera. *Antheræ* 4, oblong, of one cell, all containing pollen, in pairs, 2 above 2, the upper larger; the lower smaller and connected laterally to each other. *Pollen* white. *Rudiments* of 2 other stamina at the upper side of the throat, just below the junction of the throat and upper lip. *Filaments* very short, whitish, with an obsolete tooth analogous to the cross arm of the perfect stamina. *Antheræ* generally purple, sometimes white, sometimes containing white pollen, in one instance adhering to one of the lower pair of perfect antherae. *Germina* 4, roundish, green, on a receptacle. *Receptacle* turbinato-subrotund, fleshy, purplish, gibbous on the lower side, with 4 obsolete teeth. *Style* somewhat shorter than the upper lip. *Stigma* cloven, the upper segment as small again as the lower. *Obs.* 5264.

SALVIA minor. *Alst.* ii. 216. *Geoffr. suite* ii. 331. *Mill. Jos.* 386.

S. hortensis minor. *Dale* 140. *Lew.* ii. 324. *Rutty* 454.

S. minor aurita and non aurita. *Boecl. ap. Herm.* 465. *Cartheus.* iii. 107.

Tea Sage. *Bryant* 142.
Salvia. Sage. The leaves. *Pharm. lond.—Berg.* 22. *Murr.* ii. 164. *Schoepf* 7.
S. officinalis. *Pharm. edin.—Lew. disp. by Dunc.* 301.

7. Calyx tripartite.

10. SALVIA *digyna.* Leaves lineari-lanceolate. Styles 2. *Obs.* 5282. Specimen gathered in the garden of Fothergill.
S. cretica. *L. sp.* 33. *Hort. kew.* i. 38.
S. hispanica. *Mill. Ph. dict. n.* 4.
S. cretica angustifolia. *Clus. hist.* i. 343, from Cretan seeds; *repr. in*
S. indica. *Ger. by Johns.* 765, *& cop. in*
S. cretica angustifolia non aurita. *Park. theatr.* 51.
(S. tenuifolia. *Bauh. J.* iii. *b.* 306, *has flowers in panicles.)*
Calyx, upper lip trifid. *Obs:* 5282.
SALVIA hispanica. *Geoffr. suite* ii. 332.
S. folio tenuiore. *Dale* 140.

24. COLLINSONIA.

Corolla unequal, the lower lip multifid, with capillary segments. *Seeds* naked, 3 abortive, 1 perfect. *Obs.* 717. *L.*

1. COLLINSONIA *canadensis.* Leaves ovate. Stems glabrous. *Obs.* 717. In a garden.—*L. sp.* 39. *Hort. kew.* i. 47.
Collinsonia. *L. cliff.* 14. *t.* 5. *Gron. virg. ed.* ii. 6.
COLLINSONIA. Linn. 43. *Schoepf* 7.

2. COLLINSONIA *scabriuscula*. Leaves ovate, subcordate, slightly pilose. Stem slightly pilose, rough. *Hort. kew.* i. 47.
COLLINSONIA. Bartr. W. trav. 409.

25. KAEMPFERIA.

Calyx superior, obsolete. *Corolla*, outer limb tripartite; inner limb of 4 segments, 2 of the larger obovate, the 3rd bipartite, the 4th bifid at the end. *Antherae* 2. *Capsule* trilocular, trivalve. *From L. cliff. gen. & Lour.—L.*

1. KAEMPFERIA *Galanga*. Laminae of the leaves ovate. Petioles adpressed. *From L. & Lour.* i. 15. *L. sp.* 3. *Hort. kew.* i. 3.
Kaempferia. *L. cliff.* 2. *t.* 3. *Royen* 12.
Katsjula Kelengu. *Rheede* xi. 81. *t.* 41.
Calceolus philippensis. *Pet. gaz. t.* 19. *f.* 2, from a drawing sent him by Camel.
Contrayerva seu Doso. *Camellus ap. Raii hist.* 647.
Wanbom. *Kaempf.* 901. *t.* 902.
(Alpinia sessilis. *Koen. ap. Retz. obs.* iii. 62, is described as having a tubular calyx.)
SONCHORUS. Rumph. v. 173. *t.* 69. *f.* 2, who figures and describes it as having a scapus with 1 flower.
(Galanga minor is referred by some to this plant, but the roots are described by Rumphius as white.)

2. KAEMPFERIA *rotunda*. Laminae of the leaves elliptic. Petioles loose. *From L. sp.* 3, &
Malan-kua. *Raii hist.* iii. 648, whose account from the description of *Rheede* xi. 17. *t.* 9. *whose figure cop. in*

Zedoaria. *Blackw. t.* 399, & *Woodv.* ii. 362. *t.* 133, but the lowermost petals in Woodville's copy rounded as in the specimen mentioned below.

Zerumbet. *Garc. ap. Clus. exot.* 213, *repr. in*

Zerumbeth Serapionis. *Lob. obs.* 39; *ic.* i. 74, the 3 inner figures, &

Zerumbeth, sive Zedoaria rotunda. *Ger. by Johns.* 34, is probably intended to represent the drug Zedoary.

(Zerumbet Serapionis & Zeduaria ejusdem radicis partes. *Lob. obs.* 39, *repr. in*

Zeduarium officinarum. *Lob. ic.* i. 74, the 3 outer figures, &

Zedoariae exactior icon. *Ger. by Johns.* 1623, & *cop. in*

Zedoariae longae & rotundae genuina effigies. *Park. theatr.* 1612, do not resemble any specimens of Zedoary which I have seen.)

Corolla, inner limb, lacinulae of the bipartite segment rounded. *Specimen from Sir Jos. Banks's garden in his herbarium.*

ZERUMBET claviculatum. *Rumph.* v. 172. *t.* 69. *f.* 1.

ZEDOARIA. Zedoary. The root. *Pharm. lond.* —*Alst.* i. 538. *Berg.* 4. *Cull.* ii. 207. *Geoffr.* ii. 50. *Herm.* 12. *Hill* 565. *Lew.* ii. 482; *disp. by Dunc.* 241. *Lind hot clim.* 311. *Mead mon.* i. 119. *Monro* iii. 289. *Murr.* v. 82. *Ploucq. bibl.* i. 700, *Spielm.* 303. *Vog.* 215.

Zedoary. *Neum.* ii. 201.

Zedoaria rotunda. *Cartheus.* iii. 28. *Linn.* 39, note. —*Rutty* 558.

Zedoaria longa. *Cartheus.* iii. 28. *Dale* 251. *Linn.* 38. *Mill. Jos.* 462. *Murr.* v. 82. *Rutty* 558.

K. rotunda. *Murr. J.* i. 197. *Syn.* ii. 181.

Amomum Zedoaria. Long Zedoary. The root. *Pharm. dubl.—Lew. disp. by Dunc.* 139.

CAMPHORA e radice Zedoariae. *Herm.* 617.

This and the preceding article Zedoaria are inserted here, not from a conviction that they are the produce of this species, but because I cannot prove them not to be such. Rumphius, who was acquainted with *K. rotunda* & *Zingiber truncatum*, to which last others have referred them, was of opinion that they were the produce of neither.

26. CURCUMA.

Calyx superior, monophyllous. *Corolla*, upper segment of the inner limb with 4 horns. *Stigma* bilamellate. *From Jacquin's description and figure of C. longa.—L.* from authors.

1. CURCUMA *rotunda*. Leaves lanceolato-ovate, lateral ribs very few. *L. sp.* 3.

Amomum Zerumbeth. *Koenig ap. Retz. obs.* iii. 55.

C. foliis ovatis utrique acuminatis, nervis lateralibus paucissimis. *Royen* 12, *cop. in L. zeyl.* 6.

C. radice rotunda. *Herm. prodr.* 33.

Manja Kua. *Rheede* xi. 19. *t.* 10. (The flower cop. from Herman's figure of C. longa.)

CURCUMA rotunda. *Lour.* i. 12; *ed. 4to* 11.

2. CURCUMA *longa*. Leaves lanceolate; lateral ribs very numerous. *L. sp.* 3. *Regn.—Hort. kew.* i. 3. *Lour.* i. 11; *ed. 4to* 8. *Koenig ap. Retz. obs.* iii. 72. *Woodv.* ii. 359. *t.* 132.

Amomum Curcuma. *Jacq. hort.* iii. 5. *t.* 4.

C. foliis lanceolatis utrique acuminatis, nervis later-

alibus numerosissimis. *Royen.* 12, *cop. in L. zeyl.* 3.

C. officinarum. *Camell. ap. Raii hist.* iii. 23. *n.* 11.

Cannacorus radice crocea, sive C. officinarum. *Boerh.* ii. 127.

Manjella-koua. *Rheede* xi. 21. *t.* 11, root & leaves.

C. radice longa. *Burm. zeyl.* 83. *Zanon.* 86. *t.* 59, leaves and spike; *t.* 14. *f.* 2, a fanciful representation of the stamen.—*Herm. prodr.* 330; *hort.* 208. *t.* 209, *cop. in*

Curcuma. *Blackw. t.* 396, *&*

Terra merita. *Pomet* i. 65. *Lob. adv.* 33. No fig. —*ic.* i. 72, *repr. in*

Cyperus indicus, sive Curcuma. *Ger. by Johns.* 1631, *& cop. in Park. theatr.* 1584, the dried roots.

C. domestica major. *Rumph.* v. 162. *t.* 67, who does not notice the drug *C. rotunda.*

C. sive Terra merita officinarum radice crocea. *Bauh. J.* ii. 746, dried roots.

(Curcuma. *Bont.* 117. *t.* must be, as Rumphius observes, a species of Canna.)

CURCUMA. Turmeric. The root. *Pharm. lond.* —*Alst.* i. 424. *Berg.* 6. *Dale* 250. *Hill* 593. *Lew.* i. 386; *disp. by Dunc.* 215. *Linn.* 37. *Mill. Jos.* 166. *Monro* iii. 84. *Neum.* ii. 161. *Rutty* 155. *Spielm.* 263. *Vog.* 192.

C. longa. *Cartheus.* iii. 37. *Geoffr.* ii. 45. *Herm.* 50. *Murr.* v. 73.

Turmeric. *Neum.* ii. 161.

CURCUMA rotunda. *Cartheus.* iii. 37. *Geoffr.* ii. 45. *Herm.* 50. *Murr.* v. 73.

3. CURCUMA *pallida.* Scapus bracteate. Spike oblong. *From Lour.*

Zerumbed. *Rumph.* v. 168. *t.* 68?
CURCUMA pallida. *Lour.* i. 12.

27. ZINGIBER.

Calyx superior, monophyllous. *Corolla, outer limb* tripartite; *inner limb* bilabiate; lower lip tripartite. *Antherae* 2, sessile, adhering to the upper lip of the corolla below the end. *Capsule* of 3 cells and 3 valves. *Obs.* 3257.—*Gaertn.* i. 33.

1. ZINGIBER *echinatum*. Flowers fasciculate, sessile at the root. Capsules sulcate, echinate. *From*
Amomum an Globba crispa. *Koenig ap. Retz. obs.* ii. 50.
Amomum echinatum. *L. a Willd.* i. 8, from authors.
Amomum verum Encaladae. *Pet. gaz. t.* 20. *f.* 2, from a drawing sent by Encalada to Camel.
GLOBBA crispa viridis. *Rumph.* vi. 137. *t.* 61. *f.* 1.

2. ZINGIBER *villosum*.—Scapus reclinate, short. Bracteae linear. Fruit villose. *Lour.*
Globba crispa rubra. *Rumph.* vi. 137. *t.* 61. *f.* 2; *t.* 60. *B, C, D.* Spike sessile.
AMOMUM villosum. *Lour.* i. 4.

3. ZINGIBER *officinale*. Scapus simple. Stigma ciliate with setaceous teeth. Bracteae of the spike glabrous. *Obs.* 3257. A scapus from a hot house. —*Gaertn.* i. 33. *t.* 12.
Amomum Zingiber. *L. sp.* 1. *L. a Willd.* i. 6, but the leaves are described as ciliate at the end.—*Swartz obs.* 2, who describes the leaves quite glabrous.—*Mill. Ph. dict. ic.* i. *t.* 26. *Jacq. hort.* i.

t. 75, *cop. in Woodv.* i. 31. *t.* 11. *Hort. kew.* i. 2. *Lour.* i. 2.

Inschi, vel Inschi Kua. *Rheede* xi. 23. *(misprinted* 21.) *t.* 12.

Z. majus. *Rumph.* v. 156. *t.* 66. *f.* 1.

Gingembre. *Pomet* i. 61. *t.*

Ginger. *Ogilby's china* 246, the root and stem.

Zingiberis verior icon. *Ger. by Johns.* 61, root and stem *cop. in*

Z. forte brasiliense, nigra radice. *Park. theatr.* 1613.

Zingiberis siliqua cum granis suis. *Lob. ic.* i. 71, the capsule and seeds, *repr. in Ger. by Johns.* 61, *at the bottom of the inner figure; & cop. in*

Zingiberis siliqua & semen. *Park. theatr.* 1613, *&*

Z. et ejus siliqua. *Bauh. J.* iii. *b.* 743; *and this and the preceding fig. cop. in*

Zingiber. *Theophr. a Stap.* 1012. *Diosc. l.* 2. *c.* 190. *Plin.* 303. *l.* 12. *c.* 7. *Bauh. Casp. pin.* 35. *Sloane cat.* 60; *hist.* i. 163. *Browne* 119. *Bauh. J.* iii. *b.* 743, *cop. in*

Z. Penae. *Dalech.* 1890, *& cop. from*

Zingiberis ficta icon. *Lob. ic.* i. 70, *repr. in Ger. by Johns.* 61, is a fig. of the dried root with leaves added by the artist.

Leaves lanceolate, slightly pilose underneath towards the base; margin glabrous; ribs and veins longitudinal, without any transverse ones. *Obs.* 8210. Specimen gathered in Fothergill's garden, under the name of Cultivated Ginger.—*Leaves* lineari-lanceolate, attenuate, acute, slightly pilose underneath towards the base; ribs and veins longitudinal, without any transverse veins; margin glabrous. *Obs.* 8211. Specimen gathered in Fothergill's garden under the name of Wild Ginger.—*Scapus* 6 inches long, solid, jointed, bracteate. *Bracteae of the scapus* oblong,

rounded at the end with a very short acumen, nitid on the inner surface, scariose at the margin, vaginant for about one fourth of their length. *Spike* oblong, aromatic. *Bracteae* in pairs; *outer* subrotundo-oval, scariose at the margin, concave, generally containing a clear insipid scentless water; *inner* ovato-oblong, semi-transparent, as long as the unexpanded flowers and just rising above the end of the outer bractea, opposite to the outer bractea. *Flowers* before they are expanded lanceolate, subulate at the end, slightly compressed, generally 2 together in the lower part of the spike, one of which often abortive, and in the upper part of the spike solitary; one of the 2 flowers somewhat smaller, the smaller enveloped in another transparent bractea; when expanded rising to half the length of the bractea above the end of the bracteae, scentless, opening in the evening and begining to wither by morning, one in a spike flowering at a time. *Calyx* transparent, wider than the tube of the corolla, cloven one third of the way on the inner side, the margin with a very shallow sinus on the outer side, and an obsolete angle on the lateral sides. *Corolla*, tube cylindrical, as long as the bracteae, whitish, and towards the end yellowish; *outer limb* palish tawny yellow, bilabiate; segments 3, nearly equal, marked with semi-transparent lines, the uppermost erect, lanceolate, concave, slightly incurvate, the 2 lower horizontal, lineari-subulate, the ends from about one third of their length from the point hanging down; *inner limb* bilabiate, whitish tawny yellow and brownish crimson; *upper lip* as long as the outer limb, straight, incumbent on the middle segment of the lower lip, whitish below, the upper end above the antherae dark brownish red, margins embracing the style; *lower lip* tripartite; *middle seg-*

ment oblong-square, retuse, convex, below whitish tawny yellow marked with red, the end and sides deep brownish crimson with yellowish spots; *lateral segments* ovate, erect, brownish crimson with yellowish spots inserted between the segments of the outer limb, four times as small as the middle segment. *Antherae* inserted into the upper lip of the corolla, bilocular, white, separated by the narrow chink in which the style lies; cells bursting longitudinally. *Pollen* white. *Style* white, the end slightly inflected and perforated. *Obs.* 3257.

ZINGIBER. Ginger. The root. *Pharm. lond.* —*Alst.* i. 541. *Berg.* 1. *Cartheus.* iii. 33. *Chom.* i. 137. *Cull.* ii. 206. *Dale* 251. *Geoffr.* ii. 156. *Heberd.* 9. 335. *Hill* 569. *Lew.* ii. 486. *Linn.* 35. *Long jam.* iii. 700. *Mead monit.* ii. 90. *Monro* iii. 291. *Murr.* v. 52. *Quarin febr.* 376. *Rosenst.* 188. *Small in med. obs.* vi. 199. *Spielm.* 304. *Vog.* 215. *Wright in med. journ.* viii. 220.

Zinziber. *Herm.* 17. *Mill. Jos.* 463. *Rutty* 559.

Amomum Zingiber. The root dried. The candied root imported from India. *Pharm. edin.*—*Bryant* 20. *Lew. disp. by Dunc.* 138. *Murr. J.* i. 196. *Syn.* i. 95, 114; ii. 167.

Ginger. *Blane* 461. *Bree* 292, 298. *Chalm.* i. 137, 149, 181, 191; ii. 17, 41, 177, 182. *Graing.* 57. *Lind seam.* 96, 182. *Murr. J.* i. 340. *Neum.* ii. 203. *Papin in phil. trans. abr. by Jones* v. *part* ii. 185; *and by Hutton* vi. 53. *Plouq. bibl.* i. 487. *Pringle* 215. *Underw.* i. 110, 123; ii. 59; iii. 147.

4. ZINGIBER *Zerumbet.* Scapus simple. Stigma ciliate with setaceous teeth. Bracteae of the spike pubescent at the end. *Obs.* 3258. Specimen ga-

thered in the Schoenbrun garden.—*Jacq. hort.* iii. *t.* 54.

Amomum Zerumbet. *L. sp.* 1. *Hort. kew.* i. 2. *Lour.* i. 3.

Amomum scapo nudo, spica oblonga obtusá. *Ehret pict. t.* 14. Segments of the outer limb straight.—*Mill. Ph. ic.* 17. *t.* 26.

Katou Inschi Kua. *Rheede* xi. 27. *t.* 13.

Lampujum. *Rumph.* v. 148. *t.* 64. *f.* 1.

(Z. latifolium sylvestre. *Boerh.* ii. 128. *Herm. lugdb.* 636. *t.* 637, *cop. in*

Gingembre sauvage. *Pomet* i. 61. *t:* is Z. truncatum.)

Leaves lanceolate, slightly pilose underneath towards the base; ribs and veins longitudinal without any transverse veins; margin glabrous. *Spike* ovate, obtuse. *Obs.* 3258.

ZERUMBET. Dale 251. *Mill. Jos.* 462. *Rutty* 558.

Zerumbeth. *Geoffr.* ii. 154.

5. ZINGIBER *sylvestre.* Scapus simple. Stigma pubescent. Bracteae striate, glabrous. *Obs.* 8213. Specimen gathered by Dr. Wright in Jamaica. —*Swartz prodr.* 11; *ind. occid.* i. 1.

Amomum scapo florifero partiali aphyllo, spica longiori. *Browne* 113.

Z. sylvestre majus, fructu in pediculo singulari. *Sloane cat.* 61; *hist.* i. 165. *t.* 105 *f.* 2.

Bracteae 1 inch 4 tenths long, rufous. *Calyx* tubular, striate, 7 tenths of an inch long, glabrous, rufous. *Corolla* tubular, somewhat shorter than the calyx; outer limb tripartite; segments oblongo-ovate, erect; inner limb of 2 segments, one inserted at the

base of the outer limb, just shorter than the outer limb, the other very short. *Antherae* 2, inserted into the shorter segment of the inner limb of the corolla, parallel and close to each other. *Stigma* orbicular. *Obs.* 8213.

AMOMUM Zerumbet. *Wright in med. journ.* viii. 221.

6. ZINGIBER *truncatum*. Scapus with a loose truncate spike. *From*

Amomum scapo nudo, spica laxa truncata. *Berg. mat. med* 4, from a specimen gathered by Loureiro in Cochinchina, but I cannot find any plant in Loureiro which corresponds with that of Bergius.

Amomum Zedoaria. *L. a Willd.* i. 7, from authors.

Kua. *Rheede* xi. 13. *t.* 7.

Zedoaria officinarum. *Pet. gaz. t.* 23. *f.* 1.

Z. latifolium sylvestre. *Boerh.* ii. 128. *Herm. hort.* 636. *t.* 637, *cop. in*

Gingembre sauvage. *Pomet* i. 61. *t.*

Zedoaria. *Camel. ap. Raii hist.* iii *app.* 23.

ZEDOARIA See *Kaempferia rotunda*, to which most authors have referred it. May not the *Zedoaria longa* be the parts of the root immediately connected with the stem, and the *Zedoaria rotunda* those which adhere by means of threads, as represented in Rumphius's figure of *Curcuma longa?*

7. ZINGIBER *Mioga*. Scapus very short. Capsule ovate. Leaves ensiform, acute. *Thunb. jap.* 14; *trav.* iii. 82; iv. 89.

DJOOKA. *Kaempf. amoen.* 826.

8. ZINGIBER *compactum*. Scapus simple, very short. Leaves lanceolate. Capsules roundish. *From*

Rumph & Lour.—Thunb. trav. ii. 282; iv. 147, 168.

Amomum Cardamomum. *Lour.* i. 4; *ed. 4to*, 4.

Cardamomum minus. *Rumph.* v. 152. *t.* 65. *f* 1. Cultivated in the gardens of Amboina, into which island it was introduced from Java in 1670.

Capsules trilocular, roundish and obovate, trigonotricoccous, costate, the angles rounded, from 4 to 5 & a half tenths of an inch long, and 4 and 5 broad, villose at the base and end; dissepiments very thin. *Seeds* angular, sides smooth, of a resinous bitterish warm taste, but not to be called aromatic. *Obs.* 8387. In an apothecary's shop.

CARDAMOMUM rotundum. *Cartheus.* iii. 518. *Spielm.* 244.

Cardamomum capsula rotunda ampliore. *Vog.* 248.

Middling Cardamoms. *Neum.* ii. 187.

Cardamomum medium rotundum. *Rumph.* v. 152, *par. the last;* 153. *par.* 3.

9. ZINGIBER *Cardamomum.* Scapi branched. Leaves lanceolate. *Specimen* of the leaves and scapi in flower in Sir Jos. Banks's herbarium, gathered by M. Sonnerat in Malabar.

Amomum repens seu Cardamomum. *Woodv.* 356. *t.* 131.

Z. minus. *Gaertn.* i. 35. *t.* 12.

Amomum Cardamomum. *Linn. sp.* 2, as evident from the specific character of the fl. zeyl. and his adding the epithet of optima to the figure cited from Rheede, though the specimen found in his herbarium is Z. compactum.—*Koenig ap. Retz. obs.* iii. 59.

Amomum repens. *Sonnerat ind.* ii. 240. *t.* 136.

On the mountains behind Mahe in Malabar, which furnish the greater part of the Cardamums sold in India.

Amomum scapo bracteis alternis laxis caule breviore. *L. zeyl.* 2.

Elettari species prima. *Rheede* xi 11. *t.* 4, the plant reduced, and a leaf; (*t.* 6 is probably Elettari tertia species. Rheede xi. 11, which is described as having acuminate capsules,) *t.* 5, the root, lower part of the stem, scapi in flower and fruit, and parts of fructification, *cop. in*.

Cardamomum minus. *Blackw. t.* 385, *with an addition of f.* 3, 5, 6, representing the capsules and seeds.—*Boerh.* ii. 128.

Cardamomum minus vulgare. *Lob. ic.* ii. 204, *repr. in Ger. by Johns* 1542, *& cop. in*

Cardamomum minus & vulgare. *Park. theatr.* 1576.

Cardamomi cum siliquis sive thecis brevibus. *Bauh. J.* ii. 205, *the* 6 *outer capsules cop from*

Cardamomum medium. *Lob. ic.* ii. 204, *which cop. in Park. theat.* 1576, *the* 6 *inner capsules, and repr. in*

Cardamomum vulgare minus. *Ger. by Johns.* 1542, *the* 6 *inner capsules.*

Cardamomum. *Diosc. l.* 1. *c.* 6.

(Cardamomum minus. *Bont. ap. Pis.* 126, *is a different species.—Rumph.* v. 152. *t.* 65. *f.* 1, is Z. compactum.)

Capsules triquetrous, oval and elliptic, striate, 5 & 6 tenths of an inch long. *Seeds* angular, tuberculate, of a pleasant aromatic flavour, and warm. *Obs.* 8386. In an apothecary's shop.

CARDAMOMUM. Alst. ii. 337. *Rutty* 95.

Cardamomum minus. Smaller Cardamoms. The seeds. *Pharm. lond.—Berg.* 3. *Cull.* ii. 206.

Dale 252. *Geoffr.* ii. 368. *Herm.* 260. *Hill* 468. *Lew.* i. 279. *Linn.* 35. *Mead mon.* ii. 13. *Mill. Jos.* 112. *Monro* iii. 45. *Murr.* v. 61. *Spielm.* 245. *Vog.* 248.

C. longum minus. *Cartheus.* iii. 525.

Lesser Cardamom. *Neum.* ii. 187.

Amomum repens. Seed. *Pharm. edin.*—*Lew. disp. by Dunc.* 139. *Murr. J.* i. 203. *Syn.* 166.

Cardamomum minimum trigonum. *Rumph.* v. 153. *par.* 3.

Cardamom. *Fordyce G. fev.* iii. 253. *Underw.* i. 123; iii. 146.

10. ZINGIBER *Meleguetta.* Capsule surrounded by fasciculate bracteae. *From Gaertn.* i. 34. *t.* 12. A capsule from an apothecary.

Amomum Granum paradisi. *L. sp.* 2, but the specific character appears to have been formed from the figure of Rheede cited below, which plant is a native of India.—*Hort. kew.* i. 2. Had not flowered.—*Donn.* 1. Flowered in Aug. & Sept. From Sierra Leone.

Milleguetta. *Lob. ic.* ii. 204, *repr. in*

Cardamomi. *Ger. by Johns.* 1542, the 3 upper and outer capsules, *& cop. in*

Cardamomi genus maximum, Grana paradisi, sive Melegeta. *Bauh. J.* ii. 204, the 3 upper capsules,

Meliguette, sive Cardamomum maximum & Grana paradisi. *Park. theatr.* 1576, *&*

Meliguetta. *Theophr. a Stap.* 1014. The capsules.

Melegetta. *Lob. adv.* 445. No figure. From the western coast of Africa.

Cardamomum arabum majus. *Tab.* 915. Capsules.

Cardamomum majus. *Matth.* 27, *cop. in Cam. epit.* 11. *f.* 1. *Besl. mus.* 14. *t.* 4. Capsules.

(Elettari. *Rheede* xi. *t.* 6, differs from t. 4 and 5, as Mr. Knowlton suggested to me, in the surculi and scapi being cylindric and not bulbose at the base, but may possibly prove only the same plant in fruit. Its deciduous bracteae prove it however to be a different plant from that of Gaertner.)

MELEGUETTA. Geoffr. ii. 367.

Cardamomum maximum. *Alst.* ii. 337. *Mill. Jos.* 112.

Cardamomum piperatum Cordi. *Cartheus.* iii. 526.

Cardamomum majus. *Geoffr.* ii. 365? *Spielm.* 244.

Grana paradisi. *Berg.* 3. *Cull.* ii. 206. *Dale* 253. *Herm.* 267. *Lew.* i. 471; *disp. by Dunc.* 328. *Linn.* 36. *Murr.* v. 67. *Rutty* 96. *Spielm.* 269. *Vog.* 179.

Grains of paradise. *Neum.* ii. 212.

Malaguetta Pepper. *Winterbottom, account from in chir. rev.* x. 463, 464.

11. ZINGIBER *medium.* Spike on the stem, branched. Capsules not dividing into valves, oblong, striate. *From*

AMOMUM medium. *Lour.* i. 5.

12. ZINGIBER *globosum.* Spike on the stem, branched. Capsules not dividing into valves, globular, smooth. *From*

AMOMUM globosum. *Lour.* i. 6.

13. ZINGIBER *Galanga.* Spike on the stem, erect. Bracteae mostly triflorous. Capsules ovate, trigonous, glabrous. *From*

Amomum Galanga. *Lour.* i.

Maranta Galanga. *L. sp.* 5; *a Murr.* 51.

α *major.* Root whitish within, an inch thick. *From authors.*

Galanga. *Rumph.* v. 143. *t.* 63.

Galanga major. *Boerh.* ii. 128. *Bauh. J.* ii. 738. *f.* 1. The root.—*Ger. by Johns.* 33, *cop. in Park. theatr.* 1585. The root.

GALANGA major. *Alst.* i. 447. *Dale* 252. *Cartheus.* iii. 46. *Geoffr.* ii. 59. *Herm.* 14. *Lew.* i. 452. *Linn.* 37. *Mill. Jos.* 206. *Murr.* v. 69. *Rutty* 211. *Spielm.* 268. *Vog.* 196.

Larger Galangal. *Neum.* ii. 203.

β *minor.* Root rufous within, half an inch thick. *From specimens of the root in the shops.*

Galanga major. *Bauh. J.* ii. 739. No fig. The fig. is at p. 738, between Galanga Clusii and Galanga Acostae.—*Lob. ic.* i. 58, *repr. in Ger. by Johns.* 33, *& cop. in Park. theatr.* 1585.

GALANGA minor. *Alst.* i. 447. *Cartheus.* iii. 46. *Dale* 252. *Geoffr.* ii. 48. *Herm.* 14. *Lew.* i. 452; *disp. by Dunc.* 162. *Linn.* 37. *Mill. Jos.* 206. *Monro* iii. 115. *Murr.* v. 69. *Rutty* 211. *Spielm.* 268. *Vog.* 196.

Galanga. *Berg.* 7. *Lew. by Dunc.* 344. *Ploucq. bibl.* i. 699.

Smaller Galangal. *Neum.* ii. 203.

14. ZINGIBER *uncinatum.* Racemus cauline. Stigma glabrous. Lateral segments of the lower lip of the corolla subulate, very short; middle segment semitrifid. *Obs.* 5254. Specimen gathered by Broughton in Jamaica.

Alpinia racemosa. *Swartz. prodr.* 11; *obs.* 6. *Donn* 1. (*L. a Murr.* 51; *sp.* 2, is a different species.)

Alpinia jamaicensis. *Gaertn.* i. 36. *t.* 12.

Amomum minus, scapo vestito, floribus spicatis. *Browne* 113.

Z. sylvestre minus, fructu e caulium summitate exeunte. *Sloane cat.* 61; *hist.* i. 165. *t.* 105. *f.* 1.

(Alpina racemosa alba, cannacori foliis. *Plum. ic.* 11. *t.* 20, is a different species.)

Leaves lanceolate, glabrous, entire at the margin; veins large and small longitudinal, with transverse veins. *Flowers* with semi-transparent dots. *Calyx* tubiformi-tubular, twice as long as the germen, semi-trifid, with about 10 ribs; segments patulous, semi-orbicular. *Corolla* nearly thrice as long as the calyx; *outer limb* tripartite; segments ovali-oblong, incumbent; *inner limb* bilabiate; lower lip semi-tripartite, middle segment unguiculate, lamina reniform, obsoletely trilobate, more than twice as broad as the segments of the outer limb and somewhat shorter, veined; lateral segments very small, three times shorter than the middle segment, some times recurvate, appearing like 2 hooks; upper lip triangular, shorter than the lateral segments of the lower lip. *Antherae* 2, lanceolate, bilocular, parallel, syngenesious, united laterally but not by the margins of the valves, as long as and opposite to the lower lip. *Obs.* 5254.

ALPINIA racemosa. *Wright in med. journ.* viii. 221.

28. COSTUS.

Calyx superior, monophyllous. *Corolla*, outer limb tripartite; inner limb bilabiate; lower lip trilobate. *Antherae* 2, sessile, adhering to the upper lip of the inner limb of the corolla. *Capsule* with 3 cells and 3 valves. *From Swartz obs.* 3, *and Roscoe in linn. trans.* viii. 349. *t.* 20. *f.* 9. *L.*

Seems to differ from *Zingiber* merely in the lower lip being slightly trilobate and twice as long as the outer limb.

1. COSTUS *conicus*. Leaves glabrous. Petioles terete. Spike closely imbricate. *From*
Alpinia spicata. *Jacq. amer.* 1. *t.* 1; 8*vo* 1,
COSTUS spicatus. *Swartz. prodr.* 11; *& ind. occid.* 6. *Chisholm* 25.

2. COSTUS *crispiflorus*. Leaves sericeo-villose underneath. Spike loosely imbricate. *From Jacq. Swartz, &*
C. speciosus. *Smith in linn. trans.* i. 249. In Sion garden.—*Salisb. R. allert.* 5, who says that Sir Jos. Banks found it in the island of Pulo Pontangh.
C. arabicus. *Swartz prodr.* 11. *Jacq. icon.* i. 1. *t.* 1; *coll.* i. 143. *Thunb. trav.* ii. 282; iv. 146. In Javà.—*Mill. Ph. dict. n.* 1.
Banksea speciosa. *Koen. ap. Retz. obs.* iii. 75. In Malacca, where also cultivated in gardens.
Costus. *Royen* 11. *L. zeyl. n.* 5.
Zedoaria zeylanica, camphoram redolens. *Boerh.* ii. 128.
Tsiana kua. *Rheede* xi. 15. *t.* 8.
Herba spiralis. *Rumph.* vi. 143. *t.* 64. *f.* 1, judging from the description.
(Jacuacanga. *Piso bras.* 98, *repr. in*
Paco Caatinga. *Marcgr. bras.* 48, *& cop. in*
Arundo indica conifera latifolia brasiliensis. *Hist. ox. s.* 8. *t.* 14. *f.* 8, *and the description of which by Marcgr. is cop. in,*
Canna brasiliensis conifera. *Raii hist.* 1202, has me-

dical virtues, but is represented with a closely imbricate spike with rounded bracteae.)

COSTUS. Alst. i. 417. *Dale* 250, 421. *Geoffr.* ii. 43. *Herm.* 38. *Lew.* i. 370. *Mill. Jos.* 155. *Spielm.* 211.

C. arabicus. *Berg.* 8. *Linn.* 36. *Murr.* v. 80.

C. dulcis. *Linn.* 36. *Murr.* v. 80. *Vog.* 235.

C. amarus. *Murr.* v. 80.

29. HEDYCHIUM.

Calyx superior, monophyllous. *Corolla*, outer and inner limb tripartite. *Antherae* terminal. *From Lamark quoted by Juss.* 448, *and Roscoe in linn. trans.* viii. 342. *t.* 20. *f.* 6. *Koen.*

1. HEDYCHIUM *coronarium. Koen. ap. Retz. obs.* iii. 73. *Donn* 1. *Roscoe in linn. trans.* viii. 342. *GANDASULIUM. Rumph.* v. 175. *t.* 69. *f.* 3.

30. RENEALMIA.

Calyx superior, monophyllous. *Corolla*, outer limb tripartite; inner limb bilabiate; upper lip cordate, longer than the outer limb; lower lip tripartite; segments linear. *Antherae* adhering to the middle segment of the lower lip of the corolla. *Berry* fleshy, trilocular in the middle. *Obs.* 7168, from *R. nutans.* The account of the fruit from *L. fil. suppl.* 7.

1. RENEALMIA *exaltata.* Leaves and germen glabrous. *From L. fil. suppl.* 79, & 7.

31. GLOBBA.

Corolla trifid; segments equal. *Calyx* superior, trifid. *Capsule* trilocular. *Seeds* many. *L.*

Probably differs not from Renealmia.

1. GLOBBA *uviformis*. Spike lateral. *L. mant.* 171. *Rumph.* vi. 138. *t.* 59. *f.* 2.

TRIGYNIA.

32. PIPER.

Calyx none. *Corolla* none. *Berry* with 1 seed. *L.* —*Lour.* i. 40.

Stamina uncertain in number, intermixed with pistils. *Gaertn.* 92.—What Jussieu describes as a squamula exterior will probably prove a scale-like calyx. If Gaertner's observation be followed this genus must be referred with *Arum* to the class Monoecia.

1. PIPER *nigrum*. Leaves with 7 ribs, ovate, coriaceous, glabrous. Joints of the branches knotty. *From Vahl. enum.* i. 329, *L. zeyl. Rheede & L. sp.* 40. *Woodv.* 513. *t.* 187. *Mill. J. illustr.* i. *t.* 5. *Donn* 9. *Regn.*—*Lour.* i. 37, who describes the calyx as tetraphyllous.—*Clus. exot.* 183, *repr. in Ger. by Johns.* 1538, *cop. in*

P. nigrum vel album. *Park. theatr.* 1603, &

P. nigrum Clusii. *Bauh. J.* ii. 182.

P. foliis ovatis subseptemnerviis glabris, petiolis simplicissimis. *L. zeyl. n.* 26.

Malago-codi. *Rheede* vii. 23. *t.* 12.

P. rotundum ex Malabara, foliis latis quinquenerviis albicantibus. *Herm. zeyl.* 32.

Piperis albi uva ad vivum expressa. *Clus. exot.* 183, *cop. in*

P. nigrum & album. *Dalech.* 1808, *repr. in Lob. obs.* 575; *ic.* ii. 147, *&*

P. album. *Ger. by Johns.* 1538; *& cop. in*

Piperis albi racemus. *Park. theatr.* 1603,

P. nigrum. *Bauh. J.* ii. 181, *& Besl. mus.* 7. *t.* 3. *f.* 2.

P. rotundum nigrum. *Bauh. Casp. pin.* 411. *Pluk. alm.* 297. *t.* 437. *f.* 1. Petioles dentate at the base.—*Hist. ox.* iii. 602. *s.* 15. *t.* 1. *f.* 1. *Blackw. t.* 348, in fruit.

P. album. *Besl. mus.* 8. *t.* 3. *f.* 4.

Long Pepper. *Blackw. t.* 356. *f.* 1, 2, 3, appears to have been taken from a specimen of this species.

Lada, aliis Molanga, sive P. mas. *Pis. mant.* 180.

Poivre noir. *Pomet* i. 191.

Round Pepper. *Ogilby's china* 258.

PIPER nigrum. Black Pepper. The berries. *Pharm. lond.*—The fruit. *Pharm. edin.*—*Alst.* ii. 310. *Berg.* 27. *Cull.* ii. 207. *Dale* 330. *Fordyce, W. fragm.* 45. *Geoffr.* ii. 377. *Herm.* 261. *Hill* 462. *Lew.* ii. 224; *disp. by Dunc.* 281. *Lind hot clim.* 313. *Linn.* 43. *Mill. Jos.* 348. *Murr.* v. 22; *J.* i. 201. *Rutty* 392. *Spielm.* 286. *Syn.* i. 92; ii. 196. *Vog.* 260.

Piper. *Heberd.* 107. *Ploucq. bibl.* i. 316, 486, 521. *Quarin febr.* 377; *animad.* 47, 50.

P. rotundum nigrum. *Cartheus.* iii. 503.

Black Pepper. *Darw.* ii. 31, 128, 156, 264. *Fothergill, J. in med. obs.* vi. 108. *Monro* iii. 222. *Neum.* ii. 211.

Pepper. *Blizard, account from in med. rev.* i. 328. *Bree* 296. *Chalm.* ii. 41. *Fordyce, G. fev.* iii. 253; iv. 131. *Papin in phil. trans. abr. by Jones* v. *part* ii. 184; *& by Hutton* vi. 52. *Underw.* i. 304; ii. 59.

PIPER album. *Alst.* ii. 311. *Berg.* 27. *Cartheus.* iii. 504. *Dale* 331. *Geoffr.* ii. 379. *Herm*, 261. *Lew.* ii. 224. *Linn.* 43. *Murr.* v. 22. *Ploucq. bibl.* i. 203. *Rutty* 392. *Spielm.* 287. *Vog.* 260.

White Pepper. *Monro* iii. 222. *Neum.* ii. 211.

2. PIPER *bidentatum.* Berries united. Leaves septemnervose, ovate & cordate. Petioles mostly bidentate. *From*

P. Betle. *Lour.* i. 39, *L. sp.* 40, *& Vahl. enum.* i. 328.

P. qui Saururus foliis septemnerviis oblongo-acuminatis. *Burm. J. zeyl. n.* 193. *t.* 83. *f.* 2.

Betele Tambul, seu Betre. *Burm. J. zeyl.* 46.

Sirii folium. *Rumph.* v. 336. *t.* 116. *f.* 2.

Beetla-codi. *Rheede* vii. 29. *t.* 15.

Betre, seu Betle. *Garc. ap. Clus. exot.* 176, *repr. in*

Betle, sive Betre. *Ger. by Johns.* 1541, *& cop. in Park. theatr.* 1615,

Betre, sive Betelle. *Bauh. J.* i. *b.* 437, *&*

Betre. *Dalech. app.* 14.

BETLE. Dale 286.

Betel. *Thunb. trav.* ii. 268. *Percival, Rob. ceyl.* 175, 323.

3. PIPER *Cubeba.* Leaves obliquely ovate or oblong, veined, acute. Spike solitary, on a peduncle opposite to the leaves. Fruit on pedicles. *L. fil. suppl.* 90. *Gaertn.* ii. 67. *t.* 92. *f.* 1, a spike of berries.

P. caudatum. *Berg. mat. med.* 28. *Besl. mus.* 7. *t.* 3. *f.* 1, a racemus.

Piperis caudati uva. *Clus. exot.* 184, racemi, *cop. in*

P. caudatum. *Bauh. J.* ii. 185, the lower half of the figures, and the larger racemus *cop. in*

P. caudatum orientale. *Park. theatr.* 1604.

Cubibae. *Ger. by Johns.* 1548, *cop. in*

Cubebae. *Park. theatr.* 1583. *Clus. exot.* 184. No fig.—*Raii hist.* 1813.

Cubebae officinarum. *Camell. in phil. trans.* xxiv. 1773.

CUBEBAE. Alst. ii. 281. *Berg.* 28. *Cartheus.* iii. 512. *Cull.* ii. 209. *Dale* 316. *Geoffr.* ii. 375. *Herm.* 258. *Lew.* i. 378; *disp. by Dunc.* 281. *Linn.* 44. *Mill. Jos.* 161. *Monro* iii. 83. *Murr.* v. 37. *Neum.* ii. 211. *Rutty* 149. *Spielm.* 262. *Vog.* 252. *Woodv.* iv. 165.

Cubeba. Cubeb. *Pharm. lond.*

P. Cubeba. *Murr. J.* i. 202. *Syn.* ii. 195.

4. PIPER *Malamiri* Leaves quinquenervose, elliptico-ovate, scabrous underneath; ribs elevated underneath. *From L. zeyl. & Rheede. L. sp.* 41. *Vahl. enum.* i. 327.

Amolago. *Rheede* vii. 31. *t.* 16; spikes of an equal thickness throughout, longer than the leaves; *descr. cop. in Raii hist.* iii. 641.

WALLANRADHU. Herm. zeyl. 20.

5. PIPER *Siriboa.* Leaves with from 7 to 9 ribs, ovato-cordate, rugose underneath, veined, nearly equal at the base. *From L. sp.* 41, *Vahl. enum.* i. 332, *& Rumph.*

(Betele. *Bont.* 91, has lanceolate leaves.)

SIRIBOA. Rumph. v. 340. *t.* 117.

6. PIPER *Amalago*. Leaves quinquenervose, elliptico-ovate, slightly unequal at the base, glabrous. Berries contiguous. *Obs*. 8654. Specimen gathered by Broughton in Jamaica.—*L. sp*. 41. *Vahl. enum*. i. 328. *Hort. kew*. i. 49. *Swartz. obs*. 19.

P. frutescens diffusum, ramis flexilibus geniculatis, foliis ovatis quinquenerviis ad petiolum leniter revolutis. *Browne* 121.

P. longum arboreum altius, folio nervoso minore, spica graciliori & breviori. *Sloane cat*. 44; *hist*. i. 134. *t*. 87. *f*. 1.

P. frutex, spica longa gracili. *Pluk. alm*. 297. *t*. 215. *f*. 2.

Saururus foliis lanceolato-ovatis, quinquenerviis rugosis. *L. cliff*. 140.

(P. longum. *Rumph*. v. 333. *t*. 116. *f*. 1, is P. longum.)

Leaves glabrous, quinquenervose, 2 of the 3 middlemost ribs uniting at the distance of a quarter of an inch above the base; dotted with microscopic dots; margin neither glandular nor undulate. *Spikes* with distinct berries. *Obs*. 8655. Specimen gathered by Dr. Wright in Jamaica. Possibly a distinct species. *PIPER* Amalago. *Wright in med. journ*. viii. 276.

7. PIPER *diffusum*. Lower leaves septemnervose, cordato-ovate, the upper quinquenervose, oblong, unequal at the base, rugose underneath. *From Vahl. enum*. i. 333.

SIRIUM frigidum. *Rumph*. v. 345. *t*. 119. *f*. 2.

8. PIPER *longum*. Leaves septemnervose, cordate, petiolate; the upper quinquenervose, cordato-ob-

long, sessile. *From Lour.* i. 40, *Vahl. enum.* i. 334, & *L. sp.* 41; *zeyl. n.* 30. *Woodv.* 516. *t.* 188. *Rumph.* v. 333. *t.* 116. *f.* 1, has elliptic leaves, and Loureiro remarks that they do not at all agree with the plant. (*Regn. t.* seems from the shape of the leaves and dentate petioles to be P. bidentatum.—*Blackw. t.* 356. *f.* 1, 2, 3, is P. nigrum, & *f.* 4, 5, 6, P. Amalago.) *Garc. ap. Clus. exot.* 183, *repr. in Clus. exot.* 20, & *Ger. by Johns.* 1539; & *cop. in Park. theatr.* 1604, *Best. mus.* 8. *t.* 3. *f.* 3, &

P. longum Clusii. *Bauh. J.* ii. 186. Specimen from Java. Leaves elliptico-ovate.

Cattu-tirpali. *Rheede* vii. 27. *t.* 14.

Poivre long des indes. *Pomet* i. 191.

Pimpilim. *Pis. mant.* 183.

P. longum orientale. *Bauh. Casp. pin.* 412.

P. longum Monardi. *Lob. ic.* ii. 205, a single spike, *cop. in Bauh. hist.* ii. 186, with the addition of 3 other spikes, & *in*

Fructus Piper longum. *Park. theatr.* 1604.

(Piperi longo similis, pistolochiæ foliis absque pediculis, maderaspatanum. *Pluk. alm.* 297. *t.* 104. *f.* 4, seems more to resemble Jaborandi posterior. *Pis. bras.* 97.)

PIPER longum. Long Pepper. The fruit. *Pharm. lond. edin.*—*Alst.* ii. 311. *Berg.* 28. *Brown, S. in phil. trans.* xxiii. 1063. *Cartheus.* iii. 507. *Cull.* ii. 209. *Dale* 286. *Geoffr.* ii. 380. *Heberd.* 230. 335. *Herm.* 266. *Hill* 463. *Lew.* ii. 225; *disp. by Dunc.* 281. *Linn.* 44. *Mead mon.* ii. 90. *Murr.* v. 35; *J.* i. 202. *Rutty* 392. *Spielm.* 286. *Syn.* i. 93; ii. 195. *Vog.* 261.

Long Pepper. *Monro* iii. 222. *Papin in phil. trans. abr. by Jones* v. *part* ii. 185; & *by Hutton* vi. 53.

9. PIPER *reticulatum*. Leaves with from 5 to 9 ribs, cordate, acuminate, glabrous. Petioles equal. *From Vahl. enum.* i. 330. *L. sp.* 41.

Saururus racemosus, seu Botrytes major β *Plum. amer.* 238.

(Jaborandi prior. *Pis. bras.* 97, *repr. in*

Jaborandi III. *Pis. ind.* 216, has petioles as long as the laminae.)

SAURURUS botryitis major, arborescens, foliis plantagineis. *Plum. pl. d'amer.* 57. *t.* 75. *Pomet* i. 196.

10. PIPER *caudatum*. Leaves novemnervose, cordate with a deep sinus at the base, attenuate, glabrous, veined. *From Vahl. enum.* i. 335.

P. caudatum, seu Nhamdu. *Marcgr.* 75, *repr. from*

NHANDU. *Pison. bras.* 96.

11. PIPER *methysticum*. Leaves multinervose, cordate, acuminate. Spikes axillary, solitary, very short, pedunculate, very patent. *Forst. G. escul.* 76; *austral. n.* 21.

Sirium decumanum. *Rumph.* v. 45. *t.* 27.

KAVA PLANT. *Cook voy. 3rd* i. 190. 227.

AVA. *Cook voy. 3rd* ii. 96.

12. PIPER *umbellatum*. Leaves multinervose, orbiculato-cordate, acute. Spikes umbellate. Stem pubescent. *Obs.* 8009. Specimen gathered by Broughton in Jamaica.—*L. a Willd.* i. 167. *L. sp.* 43. *Swartz obs.* 21.

P. longum racemosum malvaceum. *Sloane cat.* 45.

Saururus arborescens, foliis amplis cordatis non umbilicatis. *Plum. amer.* 55. *t.* 73.

Aguaxima. *Pis. bras.* 104.

SAURURUS foliis amplis orbiculato-cordatis sinu aperto, petiolis vaginantibus. *Browne* 203.

13. PIPER *subpeltatum*. Leaves multinervose, reniformi-cordate, acuminate. Spikes umbellate. Stem glabrous. *From L. a Willd.* i. 166, & *Vahl. enum.* i. 337.

LOMBA. Rumph. vi. 133. *t.* 59. *t.* 1.

14. PIPER *acuminatum*. Leaves lanceolato-ovate, nervose, fleshy. Spikes conjugate and in threes. Stem rather erect. *From L. sp.* 42, & *Vahl. enum.* i. 342.

Saururus humilis, folio carnoso acuminato. *Plum. pl. d'amer.* 54. *t.* 71. Spikes conjugate and solitary.

P. longum humilius, fructu e summitate caulis prodeunte, with smaller and more pointed leaves. *Sloane hist.* i. 137. In Barbadoes.

Mecaxuchitl. *Worm. mus.* 208, two spikes, one of which *cop. in Pomet* i. 191.

MECAXOCHITL. Dale 286. *Raii hist.* 1671.

15. PIPER *pinnatum*. Leaves ovate, pinnate. Stem erect, aculeate. *Vahl. enum.* i. 356, *from*

PIPER pinnatum. *Lour.* i. 39, from a plant in fruit.

Class 3.

TRIANDRIA.

Order 1.

MONOGYNIA.

1. *Flowers inferior. L.*

38. COMOCLADIA. *Corolla* tripartite. *Calyx* tripartite. *Style* none. *Drupe. L.*

37. CNEORUM. *Petals 3. Calyx* tridentate. *Berry* tricoccous. *L.*

36. RUMPHIA. *Petals 3. Calyx* trifid. *Drupe. Nut* trilocular. *L.*

33. TAMARINDUS. *Petals 3. Calyx* quadripartite. *Legumen. Obs.* 8198.

47. XYRIS. *Petals 3. Calyx* diphyllous. *Capsule* unilocular. *Obs.* 4317.

48. COMMELINA. *Petals* 3 and 2. *Calyx* triphyllous and tetraphyllous. *Stamina* 3 and 2 perfect, 3 and 4 sterile with cruciform glands. *Capsule* trilocular and bilocular. *From authors.*

2. *Flowers inferior, apetalous.*

52. NARDUS. *Calyx* diphyllous. *Bracteae* none. *Obs.* 4424.

49. KYLINGIA.	*Calyx* diphyllous. *Bracteae* 2, with 1 flower.
53. PENICILLARIA.	*Calyx* diphyllous. *Bracteae* 2, truncate. *Style* slightly bifid. *Obs.* 6569.

3. Flowers superior. L.

34. VALERIANA.	*Corolla* quinquefid, infundibuliform, gibbous at the base. *Arillus* pappose. *Obs.* 7161.
35. FEDIA.	*Corolla* quinquefid, infundibuliform. *Arillus* dentate at the end. *Obs.* 3776.
39. MELOTHRIA.	*Corolla* quinquefid, rotate. *Berry* trilocular. *L.*
41. CROCUS.	*Corolla* sexfid, infundibuliform, regular. *Stigmata* cuneiform. *Obs.* 3324.
42. IXIA.	*Corolla* sexfid, infundibuliform, regular. *Stigmata* 3, simple. *Obs.* 6245.
45. GLADIOLUS.	*Corolla* sexfid, infundibuliform, irregular. *Obs.* 3847.
43. BERMUDIANA.	*Corolla* sexpartite. *Stigmata* 3, dilate. *Obs.* 5302.
44. FERRARIA.	*Corolla* sexpartite; 3 outer segments broader. *From Willd.*
46. IRIS.	*Corolla* sexpartite; every other segment reflex. *Stigmata* 3, bilabiate at the end. *Obs.* 8117.
40. AXIA.	*Corolla* decemfid. *Seed* 1. *From Lour.*

4. *Flowers bracteate.*

50. CYPERUS. *Bracteae* distichous. *Seed* naked.

51. SCIRPUS. *Bracteae* imbricate. *Seed* pappose. *Pappus* scabrous. *Obs.* 2272.

Order 3.

DIGYNIA.

1. *Bracteae none.*

56. PEROTIS. *Calyx* diphyllous.

2. *Bracteae solitary.*

69. SECALE. *Bracteae* uniflorous. *Obs.* 1064.

67. LOLIUM. *Bracteae* multiflorous. *Obs.* 4085.

3. *Bracteae* 2, *lateral, parallel.*

70. HORDEUM. *Colyx* diphyllous. *Obs.* 536.

4. *Bracteae* 2, *opposite, containing* 1 *flower, on a divided receptacle.*

54. ALOPECURUS. *Calyx* monophyllous, *Arista* inserted into the back of the calyx. *Obs.* 4802.

59. PHLEUM. *Calyx* diphyllous, membranaceous. *Bracteae* equal, carinate. *Obs.* 4406.

57. PHALARIS. *Calyx* double, diphyllous, cartilaginous. *Bracteae* equal, carinate. *Obs.* 373.

55. SACCHARIFERA. *Calyx* diphyllous. *Bracteae* with long hairs at the base. *Obs.* 5343.

60. HOLCUS. *Calyx* diphyllous, membranaceous; the outer phyllum with a twisted arista from the back. *Bracteae* cartilaginous. *Obs.* 1498.

61. DIGITARIA. *Calyx* diphyllous; phylla carinate. *Obs.* 3239.

5. *Bracteae 2, opposite, containing 2 flowers.*

58. PANICUM. *Calyx* diphyllous, that of the fertile flower mostly cartilaginous. *Obs.* 6557.

6. *Bracteae 2, opposite, containing several flowers. Spikes pedunculate.*

63. ELEUSINE. *Calyx* diphyllous. *Arillus* containing 1 seed. *Obs.* 6446.

62. POA. *Calyx* diphyllous; phylla ovate, without mucro or aristae.

64. FESTUCA. *Calyx* diphyllous; outer phyllum mucronate or terminating in an arista. *Obs.* 4168.

65. AVENA. *Calyx* diphyllous. *Arista* geniculate, inserted into the back of the outer phyllum. *Obs.* 4992.

66. ARUNDO. *Calyx* diphyllous; phylla pilose at the base. *Obs.* 1723.

68. AEGILOPS. *Calyx* diphyllous; outer phyllum cloven at the end. *Bracteae* cloven at the end, aristate. *Obs.* 1357.

7. *Bracteae 2, opposite, containing several flowers. Spikes sessile.*

71. TRITICUM. *Calyx* diphyllous; outer phyllum with an arista inserted below the end. *Obs.* 969.

MONOGYNIA.

33. TAMARINDUS.

Calyx turbinate at the base; limb quadripartite, deciduous. *Petals 3,* inserted into the tube of the calyx. *Stamina* inserted into the tube of the calyx. *Legumen* pulpy. *Obs.* 8198. *Swartz obs.* 24. *Jacq. amer.—L.*

1. TAMARINDUS *indica. L. sp.* 48. *Hort. kew.* i. 54. *Jacq. amer.* 10. *t.* 10. 179. *f.* 98; *cop. in pict.* 11. *t.* 13; *ed. 8vo* 12. *Blackw. t.* 201, 221. *Swartz obs.* 25. *Woodv.* iii. 454. *t.* 166.

Tamarindi. *Boerh.* ii. 59. *Bauh. J.* i. *b.* 422. *Lob. ic.* ii. 184, *cop. in Dalech.* 1690, *repr. in*

Tamarindus. *Ger. by Johns.* 1607, *& cop. in Park. theatr.* 238. *L. ups.* 15. *Browne* 125. *Sloane cat.* 147. *Rumph.* ii. 90. *t.* 23.

T. Acostae. *Dalech. app.* 9, seems to have been drawn from memory.

Balam-pulli. *Rheede* i. 39. *t.* 23.

Siliqua arabica, quæ Tamarindus. *Bauh. Casp. pin.* 403.

Racemi terminating short lateral branches. *Pedicles* patent. *Bracteae* oblong, opposite, as long as the pedicles. *Calyx* as long as the bracteae; segments ensiformi-oblong. *Petals* on one side of the calyx. *Stamina* 3 together on the side of the calyx opposite to that into which the petals are inserted. *Obs.* 8198. Specimen gathered by Dr. Wright in Jamaica.

Native of India, Arabia and Æthiopia, and naturalized in Ægypt and the West Indies.

TAMARINDI. Alst. ii. 318. *Cartheus.* i. 430. *Fordyce, G. pract.* 305. *Geoffr.* ii. 355. *Heberd.* 3. *Herm.* 353. *Hill* 451. *Home, F. clin.* 134. *Lassone, jun. account from in med. comment.* x. 361. *Monchy in Pringle* 213. *Murr.* ii. 425. *Ploucq. bibl.* i. 494. *Quarin febr.* 14, 15, 59, 63, 111, 141, 144, 160, 217, 219, 233, 344, 381, 382, 407, 423; *animad.* 57, 216, 219, 240, 241, 260, 261, 269. *Rutty* 506. *Spielm.* 624. *Stoll med.* i. 126; iii. 27, 188, 264, 287; *aph. n.* 808. *Vog.* 264. *Underw.* i. 322. *Wintringh. in Mead mon.* i. 250.

Tamarindus. The fruit. *Pharm. lond.—Berg.* 34. *Cull.* ii. 506. *Dale* 339. *Lew.* ii. 408. *Linn.* 46. *Mill. Jos.* 430. *Monro* iii. 278. *Schoepf* 107.

T. indica. The preserved fruit. *Pharm. edin.*—*Bryant* 316. *Lew. disp. by Dunc.* 316. *Murr. J.* i. 262, 358. *Pearson, R.* i. 211. *Wright in med. journ.* viii. 287.

Tamarinds. *Blane* 476, 492. *Clark J. long voy.* i. 181, 324; *fev.* 22. *Dancer, account from in med. rev.* vii. 487. *Fordyce, G. pract.* 150, 152, 206; *fev.* ii. 54; *W. fev.* 167. *Hillary* 90, 162, 172. *Maclean, Hector* 165. *Monro, Don. sold.* ii. 186. *Pringle* 203. *Rush* i. 113; iii. 285. *Sherwen in ann. med. lustr. II.* ii. 278. *Stoll med.* i. 21; ii. 148.

Tamarins. *Chom.* 40.

34. VALERIANA.

Calyx superior, multipartite; segments involute. *Corolla* superior, infundibuliform and hypocrateriform; limb quinquepartite. *Arillus* of 2 valves, crowned by a pappus. *Obs.* 7161, 3778. *L.*

1. *Stamina* 3. *L.*

1. VALERIANA *celtica.* Leaves ovato-oblong, obtuse; margin entire. *L. sp.* 46. *Scop. carn. n.* 45. *Host* 21.

Nardus celtica Saliunca. *Lob. adv.* 132, *repr. in*

Nardus celtica. *Lob. ic.* i. 313. *Cam. epit.* 13, *cop. in*

Nardus celtica Matthioli. *Dalech.* 924.

Nardus alpina. *Clus. pann.* 515, *repr. in hist.* ii. 57, *cop. in*

Nardus celtica altera. *Park. theatr.* 117, *& repr. in*

Nardus celtica. *Ger. by Johns.* 1079; the root and

leaves *cop. in Bauh. J.* iii. *b.* 205, the outer figure; the flowering stem of which *cop. from*

Spica celtica. *Cam. epit.* 14, the innermost figure.

Nardus minima nardifolia. *Bauh. J.* iii. *b.* 206, the outer figure, according to Scopoli.

Hirculus veterum. *Garcias ap. Clus. exot.* 202, roots and radical leaves, *cop. in Dalech.* 925, *and repr. in*

Hirculus. *Ger. by Johns.* 1079, and one of the figures *cop. in*

Nardus celtica. *Bauh. J.* iii. *b.* 205.

Arilli oblong, pappose at the end. *Obs.* 3785.

Specimen from Prof. Jos. F. Jacquin.

NARDUS celtica. *Cartheus.* iii. 91. *Dale* 110. *Geoffr.* ii. 109. *Lew.* ii. 125. *Mill. Jos.* 308. *Monro* iii. 183. *Rutty* 342.

Nardus celtica Dioscoridis. *Chom.* 340.

Spica celtica. *Alst.* i. 523. *Berg.* 32. *Linn.* 46. *Murr.* i. 187. *Spielm.* 299. *Vog.* 154, 243.

Spica Nardi celtica. *Herm.* 42.

2. VALERIANA *pyrenaica.* Leaves cordate, crenate, petiolate, the uppermost ternate. *Obs.* 3782. Specimen gathered in the garden of Fothergill.—*L. sp.* 46. *Hort. kew.* i. 53.

V. maxima pyrenaica, cacaliae folio. *Boerh.* i. 74.

NARDUS montana. *Geoffr.* ii. 111.

3. VALERIANA *Spica.* Radical leaves cordate, entire at the margin; cauline leaves entire. *From Jones in asiat. research.* ii. 416. *t. at p.* 405, *cop. by Roxb. in asiat. research.* iv. 451. (where at *l.* 8, for generic read specific,) *t. at p.* 451. *f.* 3, with the addition of a root and the lower part of the stem of another plant; *f.* 1, 2, roots and the

lower part of 2 stems; *f.* 4, the drug sold in the shops of Hindostan.—*Vahl. enum.* ii. 13.

(Nardus Dioscoridis. *Lob. adv.* 42, from the shop of Martinelli at Venice, *repr. in*

Spica Nardi. *Lob. ic.* i. 83, & *imit. in*

Spica nardi indica. *Dalech.* 921, &

Nardus indica vulgaris. *Bauh. J.* iii. *b.* 203, the upper figure, & which *cop. in*

Spica nardi. *Theophr. a Stap.* 1018, the upper figure, &

Nardus indica. *Park. theatr.* 1595, has no resemblance to the root of a Valeriana.—*Plin. l.* 12. *c.* 12. *p.* 305. is described as a shrub.—*Garcias ap. Clus. exot.* 202, from druggists shops, *repr. in Ger. by Johns.* 1080, *cop. in Dalech. app.* 16; & *abr. in Park. theatr.* 1595,

Nardus indica vulgaris. *Bauh. J.* iii. *b.* 203, &

Spica nardi. *Theophr. a Stap.* 1018, the lower figure, more resembles the root of an Iris than that of a Valeriana.)

JATAMANSI. Jones ib. 119. *Roxb. ib.* 453.

4. VALERIANA *tuberosa.* Radical leaves entire at the margin, oval and lanceolate; cauline leaves pinnatifid. Stem leafless upwards. *Obs.* 3784. Specimen from M. Broussonett.—*L. sp.* 46. *Hort. kew.* i. 52. *Sibth. prodr. n.* 75. On the mountains of Cilicia, Crete and Cyprus, and on Mount Parnassus.

V. bulbosa. *Bauh. J.* iii. *b.* 207.

Nardum montanum. *Matth.* 351. *cop. in*

Nardus montana. *Dalech.* 926, *abr. in Cam. epit.* 15, & *Lob. adv.* 320, *which repr. in ic.* i. 717, & *Ger. by Johns.* 1079. *Cam. hort.* 104. *Clus. hist.* ii. 56, *repr. in*

Nardus montana germinans. *Ger. by Johns.* 1079.
Nardus montana. *Cam. epit.* 15, *cop. in*
Nardus montana longiori radice. *Park. theatr.* 118.
NARDUS montana. *Dale* 110. *Geoffr.* ii. 111.

5. VALERIANA *Saliunca.* Leaves lineari-cuneiform, sometimes tridentate, entire at the margin. Flowers umbellato-capitate. *From Vahl. enum.* ii. 15. *Allioni.*
Nardus sive Saliunca neapolitana. *Bauh. J.* iii. 206, *cop. from*
SALIUNCA neapolitana. *Dalech.* 982.

6. VALERIANA *dioica.* Radical leaves entire; cauline leaves pinnatifid. Dioecious, some plants having stamina and an imperfect pistil, others a pistil and imperfect stamina. *Obs.* 602. In marshy ground. Probably polygamous.—*L. suec. n.* 35; *sp.* 44. *Bot. arrang.* i. 35; iii. cxvi. *Curt. lond.* iv. 47. *t. f.* 1, the female plant; *f.* 2 the male plant.—*Smith brit.* 37. *Retz: obs.* i. *n.* 7, with whom a plant regarded as a male produced perfect seeds.—*Scop. carn. n.* 40, who says all the plants he examined produced some perfect seeds.—*Pollich n.* 30. *Fl. dan. t.* 687.
V. Small marsh Valerian. *Walc. t.*
V. foliis caulinis pinnatis, polygama. *Royen* 235, who adds *mas* & *hermaphrodita.*
Phu minimum. *Dalech.* 1043.
V. minima. *Dod.* 347, *repr. in*
V. minor sylvestris. *Lob. ic.* i. 715, &
V. minor. *Ger. by Johns.* 1075, & *cop. in*
V. sylvestris. *Park. theatr.* 123.
V. minor pratensis, vel aquatica. *Bauh. J.* iii. *b.* 211, &

V. sylvestris minor. *Dalech.* 1042. *Raii syn.* 200. The male plant.

V. exigua. *Trag.* 62.

V. palustris minor. *Tourn. paris.* 237. *Vaill. paris.* 199. *Boerh.* i. 74.

V. aquatica minor, flore minore. *Raii hist.* 389. *Tourn. paris.* 237. *Vaill. paris.* 199. The female plant.

V. sylvestris seu palustris minor altera. *Raii syn.* 200. The female plant.

V. sylvestris vel palustris altera, flore minore densius stipata. *Boerh.* i. 74. The female plant.

VALERIANA minor. *Mill. Jos.* 447.

V. palustris. *Geoffr. suite* iii. 270.

V. palustris minor. *Herm.* 34.

V. sylvestris minor. *Cartheus.* iii. 71.

Phu minus. *Dale* 110.

7. VALERIANA *lævicaulis.* Radical leaves entire; lower cauline leaves pinnatifid; the upper pinnate; the outer foliole or segment the largest. Stem smooth. *Obs.* 3786. In a garden.

V. Phu. *L. sp.* 45. *Hort. kew.* i. 52. *Krock. n.* 50.

Phu magnum. *Matth.* 927. *Fuchs.* 812. *c.* 329, *cop. in*

V. vera, seu Nardus agrestis. *Trag.* 60, *which repr. in*

Phu majus. *Cord.* 102, *& cop. in*

V. major, odorata radice. *Bauh. J.* iii. *b.* 209. *Raii hist.* 388.

V. hortensis. *Dod.* 346, *repr. in Ger. by Johns.* 1075.

Phu majus, sive V. major. *Park. theatr.* 120.

Calyx multipartite; segments subulate, closely involute, so as to make the calyx appear a striate rounded margin. *Arillus* lanceolato-ovate, compressed, with 4 costae on one side and 1 on the other. *Obs.* 7161. In a garden.

PHU. Linn. 45.

V. hortensis. *Alst.* i. 533. *Cartheus.* iii. 71. *Geoffr. suite* iii. 260. *Neum.* ii. 135. *Rutty* 531.

V. major. *Berg.* 31. *Mill. Jos.* 446. *Murr.* i. 186. *Vog.* 213.

Phu majus. *Dale* 109.

V. hortensis Phu, folio olusatri Dioscoridis. *Boecl. ap. Herm.* 35. *Chom.* 168. *Herm.* 34.

8. VALERIANA *officinalis.* All the leaves pinnate. *L. suec. n.* 34; *sp.* 45. *Bot. arrang.* 36. *Smith brit.* 38. *Scop. carn. n.* 39. *Fl. dan. t.* 570. *Woodv.* ii. 262. *t.* 96.

V. sylvestris. *Dod.* 346, *repr. in Lob. ic.* i. 715, &

V. major sylvestris. *Ger. by Johns.* 1075.

Phu germanicum. *Fuchs.* 857. *cop. in* 812. 12*mo ed. c.* 329, &

V. vulgaris. *Trag.* 61.

V. sylvestris, the second species. *Mill. Jos.* 448.

V. sylvestris major. *Raii hist.* 388; *syn.* 200. *Tourn. paris.* 236. *Vaill. paris.* 199. *Boerh.* i. 74. *Park. theatr.* 122. No fig.

Folioles to an inch wide. *Obs.* 5890.—*Arilli* subulato-ovate, with 3 costae on one side and 1 on the other. *Obs.* 3778.

VALERIANA. Plouc. bibl. i. 516. *Quarin febr.* 69; *animad.* 250. *Reil, account from in med. comment. dec. II.* ix. 26. *Spielm.* 301.

V. officinalis. The root. *Pharm. edin.*—*Krock.*

n. 49. *Lew. disp. by Dunc.* 321. *Murr. J.* i. 148. *Pearson, R.* ii. 200, 216.

V. sylvestris. Wild Valerian. The root. *Pharm. lond.—Alst.* i. 533. *Berg.* 30. *Bisset ess.* 169. *Conradi, account from in phys. journ.* i. 50. *Cull.* ii. 371. *Dale* 110. *Duncan in Lew. disp. by Rother.* 260. *Geoffr. suite* iii. 263. *Heberd.* 64, 90, 145, 150, 203, 302. *Hill* 581. *Fordyce, W. fragm.* 73. *Lew.* ii. 443. *Linn.* 45. *Mill. Jos.* 447. *Monro* iv. 24. *Mead mon.* i. 33. *Quarin animad.* 25. 28. 114. 48. *Stoll aph. n.* 715; *med.* iii. 420, 422. *Whytt nerv.* 513. *Wintringh. in Mead. mon.* i. 159.

V. sylvestris major. *Boecl. ap. Herm.* 35. *Cartheus.* iii. 71. *Chom.* 168; *suppl.* 56. *Herm.* 35. *Neum.* ii. 135. *Rutty* 531.

V. minor. *Murr.* i. 180. *Vog.* 215.

Valerian. *Blane in trans. improv.* ii. 209. *Bree* 251. *Cull. clin.* 155, 167. *Darw.* ii. 66, 137, 223, 392, 748. *Home, F. clin.* 147, 175. *Kirkland apopl.* 98, 143. *Michaelis, account from in phys. journ.* viii. 442. *Ploucq. bibl.* i. 222, 225, 251, 324, 333, 435, 645. *Richter quoted in Rollo diab.* 370. *Underw.* i. 11, 148, 170, 173, 193. *Withering in bot. arrang.* 36.

Wild Valerian. *Baylies in med. pap.* 44 *Cull. pract. n.* 1540. *Marchant in acad. sciences abr. by Southw.* iii. 248.

β *angustifolia.* Leaves narrower. *From Dill.—Bot. arrang.* 36. *var.* 2.

V. sylvestris major montana. *Dill. ap. Raii syn.* 200.

V. major sylvestris montana. *Boerh.* i. 74. Native of Holland.

V. sylvestris, the first species. *Mill. Jos.* 448.

Stem hirsute, sometimes nearly glabrous. *Leaves* hirsute; lateral folioles from 2 to 4 tenths of an inch broad. *Obs.* 8010. Specimen gathered in Dovedale, near Ashbourne, Derbyshire. Aug.

VALERIANA sylvestris major montana. *Rutty* 531.

35. FEDIA.

Calyx with from 1 to many teeth. *Corolla* superior, infundibuliform; limb quinquepartite. *Arillus* of 2 valves, without a pappus. *Obs.* 3776, 3984, 3784, 3800. *Gaertn.*

Valerianella. *Boerh.* 75.

1. FEDIA *ecalyculata*. One of the valves of the arillus bilocular. Calyx obsolete. *Obs.* 7120. On banks at Alport, and all over the limestone district of the Peak of Derbyshire.

F. olitoria. *Vahl. enum.* i. 19.

Valerianella olitoria. *Pollich n.* 32.

Valeriana olitoria. *Willd. berol.* 19. *Roth germ.* ii. 39. *L. a Willd.* i. 182.

Valeriana Locusta olitoria. *L. sp.* 47.

Valeriana Locusta. *L. suec. n.* 36. *Lyons ap. Relh.* 14. *Smith brit.* 39. *Curt. lond.* v. 4. *t.* 319.

LOCUSTA. Berg. 33.

Valerianella. *Geoffr. suite* iii. 272.

Valeriana Locusta. *Bryant* 116. *Krock. n.* 51.

Lactuca agnina. *Dale* 110. *Spielm.* 57.

Mache. *Chom.* 812.

α *integrifolia*. (Variation.) Leaves entire. *Obs.* 7120.

Valeriana Locusta. *Bot. arrang.* 37 *n*

Valerianella arvensis praecox humilis, semine compresso. *Tourn. paris.* 160. *Vaill. paris.* 199. *Dill. ap. R. syn.* 201.

Valeriana campestris inodora major. *Raii hist.* 392.

Valerianella arvensis praecox humilior, semine depresso. *Moris. umb.* 53. *Boerh.* i. 75. Native of Holland.

Valerianella arvensis praecox humilior, semine compresso. *Moris. umb.* 69. *t.* 1. *f.* 58. 59, the seeds.

Valerianella arvensis praecox humilis, flore dilute caeruleo, semine compresso. *Hist. ox. s.* 7. *t.* 16, the outer figure.

Album olus. *Dod.* 636, *repr. in*

Lactuca agnina. *Ger. by Johns.* 310. *Raii syn. ed.* ii. 98.

Locusta herba prior. *Bauh. J.* iii. 323, has elliptic leaves, and much broader than I have ever observed.

Polypremum. *Dalech.* 554.

Root annual. *Stem* 5 to 7 inches long, dichotomous from the base. *Germen* inferior, oblong, slightly hirsutulous, oblique at the end, with an obtuse tooth on the upper side. *Corolla* whitish blue, infundibuliform, on the lower side of the end of the germen; segments oval. *Stamina* 3. *Stigmata* 2 and 3, slightly recurvate. *Arilli* stil green, slightly pubescent, irregularly ovate, obtuse; one valve straight or slightly convex, divided internally into 2 cells; the other gibbous sometimes ending in an obsolete tooth. The valve with 2 internal cells on the top of which the corolla is placed, probably forms the communication between the style and the embryo seed. *Obs.* 7120. In flower to June 27, when all out of flower

except plants whose main stems had been eaten off.—*Arillus* subrotundo-ovate, slightly compressed; valves 2, carinate, one ligneous, marked along the keel with a single stria, the other marked along the keel with 3 costae, and divided internally into 2 empty cells, by a dissepiment inserted into the carina of the valve. *Seed* lanceolate, contrary to the sides and parallel to the carinae of the arillus. *Obs.* 3776. In a garden.

β *serratifolia.* (Variation.) Upper leaves serrato-dentate towards the base. *Obs.* 7059. Specimen gathered by Mr. Hollefear, probably in a garden.

F. olitoria dentata. *Vahl. enum.* ii. 19.

Valeriana olitoria. *L. a Willd.* i. 183 β

Valeriana floribus triandris, caule dichotomo, foliis linearibus. *L. ups.* 14 β

Valerianella arvensis praecox humilis, foliis serratis. *Vaill. paris.* 199, placed, probably by mistake, under n. 2 instead of n. 1.

Lactuca agnina, seu Valerianella foliis serratis. *Dill. ap. Raii syn.* 201.

Phu minimum alterum. *Lob. obs.* 412, *repr. in ic.* i. 717, *cop. in Dalech.* 1127, *repr. in*

Lactuca agnina latifolia. *Ger. by Johns.* 310; *cop. in*

Locusta altera, foliis serratis. *Bauh. J.* iii. 324; *abr. in*

Valerianella arvensis praecox humilis, flore dilute caeruleo, semine compresso. *Hist. ox. s.* 7. *t.* 16, *inner figure; & cop. in*

Lactuca agnina. *Park. theatr.* 812; *parad.* 499 *t.* 497. *f.* 9.

2. FEDIA *coronata.* Calyx sexfid; segments equal, triangular. *Obs.* 3787. Specimen gathered in the Paris garden.—*Vahl. enum.* ii. 20.

Valeriana coronata. *Salisb. R. allert.* 56. *Host* 22.
Valeriana Locusta coronata. *L. sp.* 48. *Hort. kew.* i. 53.
Valerianella nostras major, scabiosae semine. *Mor. bles.* 215.
Pseudo-Valeriana annua, semine hirsuto minore rotundo. *Hist. ox.* iii. 104. In Picardy.
Valerianella scabiosae semine minor bloesensis. *Hist. ox. s.* 7. *t.* 16, *abr. from, &*
Valeriana annua, sive aestiva Clusii. *Park. theatr.* 121, *ill cop. from*
VALERIANELLA semine scabiosae, stellato, hirsuto, & etiam umbilicato. *Col. ecphr.* i. *t.* 209.

3. FEDIA *radiata.* Fruit subtetragonous, pubescent, naked at the end. *From Michaux* i. 18. *Vahl. enum.* i. 21.
Valeriana Locusta radiata. *L. sp.* 48.
Valeriana. *Gron. virg.* 7.
VALERIANA Locusta. *Schoepf* 9.

36. RUMPHIA.

Calyx trifid. *Petals* 3. *Drupe* trilocular. *L.*

1. RUMPHIA *amboinensis.* *L. sp.* 49.
Tsjem Tani. *Rheede* iv. 25. *t.* 11.
MYXA pyriformis, ossiculo trispermo. *Raii hist.* 1556.

37. CNEORUM.

Calyx tridentate. *Petals* 3, equal. *Berry* tricoccous. *L.*

1. CNEORUM *tricoccum*. *L. sp.* 49. *Hort. kew.* i. 54.

C. tricoccon. *Gouan. hort.* 23. Near Montpelier.

Chamaelaea. *Boerh.* i. 255.

Chamelaea. *Clus. hisp.* 170, in the provinces of Valentia, Catalonia and Arragon, and in the neighbourhood of Montpelier; *repr. in Dod.* 359, &

Chamelaea arabum tricoccos. *Ger. by Johns.* 1402; *cop. in*

Chamelaea Dodonaei. *Dalech.* 1665; *repr. in*

Chamelaea tricoccos. *Clus. hist.* i. 87; & *cop. in Park. theatr.* 202, & *Bauh. J.* i. *a.* 584. *Raii hist.* 1710; *europ.* 93. *Magn. monsp.* 59.

Mezereon arabum, Chamelaea tricoccos. *Lob. adv.* 157, *repr. in ic.* i. 369.

Stem and *branches* microscopically pubescent, angularly flexuose. *Leaves* somewhat shining, sometimes emarginate. *Peduncles* axillary, short, with 1 flower and the rudiments of 1 or 2 more. *Calyx* triphyllous, pubescent, green; phylla ovate. *Petals* yellow, oblong. *Stamina* yellow, somewhat shorter than the corolla. *Pistil* yellow, as short again as the stamina. *Germen* roundish, villose, slightly tricoccous, placed on the top of a roundish fleshy yellow receptacle, smaller than the receptacle. *Style* as long as the germen. *Stigmata* 3, very short. *Obs.* 8619. In Mr. Sitwell's garden.

Native of the north-eastern quarter of Spain, Languedoc and Provence.

OLIVELLA. Geoffr. suite i. 237.

38. COMOCLADIA.

Calyx tripartite. *Corolla* tripartite. *Drupe* oblong; kernel with 2 lobes. *L.*

1. COMOCLADIA *integrifolia*. Folioles entire at the margin. *L. sp.* 49. *Hort. kew.* i. 54.
Prunus racemosa, caudice non ramoso, alato fraxini folio non crenato, fructu rubro subdulci. *Sloane cat.* 184; *hist.* ii. 131. *t.* 222. *f.* 1.
COMOCLADIA. *Browne* 124.

39. MELOTHRIA.

Calyx quinquefid. *Corolla* campanulate, monopetalous. *Berry* with 3 cells, and many seeds. *L.*

1. MELOTHRIA *pendula*. *L. sp.* 49. *Hort. kew.* i. 54.
Melothria. *Royen* 528. *Gron. virg.* 7. *Browne* 124.
Cucumis minima, fructu ovali nigro laevi. *Sloane cat.* 103; *hist.* i. 227. *t.* 142. *f.* 1.
Bryonia olivae fructu, minor. *Plum. sp.* 3; *ic. t.* 66. *f.* 2.
Cucumis parva repens virginiana, fructu minimo. *Pluk. t.* 85. *f.* 5.
Leaves cordate, obsoletely quinquelobate, quinquangular, triangular; margin obsoletely crenate, and obsoletely dentate. *Obs.* 8598. Specimen gathered by Dr. Wright in Jamaica.
MELOTHRIA pendula. *Bryant* 272.

39*. ROTALA.

Calyx tridentate. *Corolla* none. *Capsule* trilocular, polyspermous. *L.*

1. ROTALA *verticillaris*. *L. mant.* 175.
ENE-PAEL. *Rheede* ix. 159. *t.* 81.

40. AXIA.

Calyx trifid. *Corolla* monopetalous, decemfid. *Seed* 1. *Vahl. enum.* ii. 38, *from* .

1. AXIA *cochinchinensis*. *Lour.* i. 44.

41. CROCUS.

Corolla superior, infundibuliform; limb sexpartite, shorter than the tube. *Calyx* spathaceous. *Stigmata* 3, cuneiform. *Obs.* 3324. *L.*

1. CROCUS *setifolius*. Calyx diphyllous. Leaves setaceous, ciliate. *Obs.* 3405. In Mr. Ordoyno's nursery. 19 Nov.

C. officinalis sativus. *Huds.* 13.

C. sativus officinalis. *L. sp.* 50, whose specific character, given in *ed.* i. to distinguish it from *Ixia Bulbocodium*; which he then referred to *Crocus*, has been reprinted in all his succeeding works, and those of his editors and copyists.—*Bot. arrang.* 37, but not a native, and I apprehend not even naturalised.—*Hort. kew.* i. 56 α

C. sativus. *Woodv.* iii. 479. *t.* 176. *Boerh.* ii. 120. *Gouan. hort.* 24. *Mill. Ph. dict. n.* 1, who remarks that it never produces seeds in England.—*Relh. n.* 30. Formerly cultivated near Gogmagog hills.—*Sibth. prodr. n.* 82. In Greece in ploughed land, and on mountains about Athens.—*Smith. brit.* 39. Cultivated about Saffron Walden, and thence dispersed through the neighbouring fields.

C. autumnalis. *Smith engl. bot. t.* 343, from a plant sent from Saffron Walden.

Crocum florens. *Matth.* 69.

Crocum non florens. *Matth.* 70.

Crocus. *Fuchs.* 432. *c.* 168, *cop.* with the addition of a figure, *in Bauh. J.* ii. 637, who says he never observed it to produce seeds.—*Trag.* 763. *Dod.* 213, *repr. in Lob. obs.* 68; *ic.* i. 137, *and Ger. by Johns.* 151. *Raii syn.* 374, who inserts it merely as a plant cultivated in fields; *hist.* 1176, who observes that it is cultivated in Europe from Sicily to England, but that he could neither learn that it ever produced seeds, nor ascertain its native place of growth.

Saffron. *Sheldr. herb. t. Townsends trav.* ii. 105, 107, who observed it in flower in October from Salamanca to the borders of New Castile.

Saffron plant. *Douglas in phil. trans. abr. by Reid and Gray* vi. 226. *part* ii. 226. *t.* 4. *f.* 71.

C. verus sativus autumnalis. *Park. parad.* 167, *t.* 169. *f.* 2.

CROCUS. Saffron. The stigmata. *Ph. lond.*—*Alst.* ii. 116. *Berg.* 35. *Boerh.* 589. *Cartheus.* ii. 519. *Cull.* ii. 312. *Dale* 245. *Geoffr.* ii. 282. *Herm.* 577. *Hill* 435. *Lew.* i. 374. *Mead monit.* i. 33. *Mill. Jos.* 159. *Monro* iii. 79. *Murr.* v. 220. *Neum.* ii. 185. *Ploucq. bibl.* i. 28, 368. *Quarin animad.* 114. *Rutty* 147. *Spielm.* 260. *Vog.* 145.

C. sativus. *Pharm. edin.*—*Lew. disp. by Dunc.* 209. *Murr. J.* i. 149.

C. orientalis. C. britannicus. *Linn.* 46.

C. vulgatior. *Lob. adv.* 53. *l.* 35.

Saffron: *Bisset ess.* 75.

Saffran. *Chom.* 174; *suppl.* 60.

Native of Spain, Greece, and according to Willdenow of the east, but it is not enumerated either in the floras of Forskal or in Russel's Aleppo.

42. IXIA.

Corolla superior, infundibuliform; limb sexpartite, longer than the tube. *Calyx* diphyllous, and triphyllous. *Stigmata* 3. *Obs.* 6245. *L.*

1. *Scapus shorter than the leaves.* L. a Murr.

1. IXIA *Bulbocodium.* Leaves filiform, sulcate, flexuose. Scapus branched; branches uniflorous. Spathae longer than the tube of the corolla. *Vahl. enum.* ii. 50. *Thunb. cap.* 9, & *ap. L. a Murr.* 83. *L. sp.* 51; *mant.* 320; *a Willd.* i. 196. *Hort. kew.* i. 56. *Sibth. prodr. n.* 86. On the mountains of the Grecian islands.

Crocus angustifolius. *Clus. hisp.* 258. Called Nozellas pequenas by the Portuguese.

Native of Portugal, Spain, the south of Italy, the Grecian islands, and possibly of the neighbourhood of Montpelier.

α *parviflora. Vahl. enum.* 50.

Bulbocodium crocifolium, flore parvo violaceo. *Tourn. cor.* 50. *Boerh.* ii. 118.

Crocus italicus angustifolius, parvo flore, radice rostrata. *Tourn. inst.* 351.

Sisyrinchium minus angustifolium. *Bauh. Casp. pin.* 41. *Hist. ox.* ii. 346.

Sysirynchium Theophrasti. *Raii hist.* 1167. *Col. ecphr.* i. 328. *t.* 327. *f.* 1, on the sides of roads near Cirignola in Apulia; *cop. in Hist. ox. s.* 4. *t.* 5, &

Sysirinchium Fabii Columnae. *Theophr. a Stap.* 880, the 6 upper figures.

Crocus vernus minor 3. *Clus. hisp.* 261, *repr. in*

Crocum vernum angustifolium II. *Clus. hist* 207,

Crocus sylvestris hispanicus, vulgo Nozilicha major. *Lob. obs.* 69; *ic.* i. 142, *&*

Crocus vernus minor. *Ger. by Johns.* 152; *& cop. in*

Crocus vernus angustifolius tertius Clusio, flore multo minore caeruleo. *Bauh. J.* ii. 645.

SYSYRRHINCHIUM. Dale 245.

Bulbi apuli. *Plin.* 498. *l.* 19. *c.* 5 ?

β *media. Vahl. enum.* 50.

Crocum vernum angustifolium II. *Clus. hist.* i. 207. (The figure belongs to α)

Crocus vernus minor alter, flore minore ex albo purpureo. *Bauh. J.* ii. 645. *Magn. monsp.* 81; *hort.* 64.

CROCUS vernus minor alter. *Clus. hisp.* 260. No fig.

γ *grandiflora. Vahl. enum.* 50.

I. Bulbocodium. *Jacq. coll.* iii. 265; *ic.* ii. *t.* 271. segments of the corolla incumbent below.—*Curt. mag.* viii. *t.* 265. Segments of the corolla distinct. Root with 2 attenuate processes.

Crocus flore fructui imposito, tubo brevissimo. *Royen* 41.

Sysirinchium asprensium angusto folio alterum. *Col. ecphr.* ii. 5. *t.* 7. *Raii hist.* 1167.

Romulea. *Maratti t.*

Crocus vernus minor I. *Clus. hisp.* 259, *repr. in*

Crocus vernus angustifolius I. *Clus. hist.* i. 207.

Crocus sylvestris minor hispanicus, flore patulo, vulgo Nozilicha minor. *Lob. obs.* 68; *ic.* i. 141. *f.* 1, *&*

Crocus vernus. *Ger. by Johns.* 152.

Crocum vernum angustifolium, violaceo flore. *Clus. hist.* i. 208, from a bulb sent from Tuscany, *repr. in*

Crocus sylvestris minor hispanicus, flore patulo. *Lob. ic.* i. 141. *f.* 2, &

Crocus vernus angustifolius, flore violaceo. *Ger. by Johns.* 155; & *imit. in*

Crocus vernus purpureus, capillari folio. *Park. parad.* 165. *t.* 163. *f.* 9.

2. *Scapus longer than the leaves. Glabrous. Leaves flat.* Vahl.

2. IXIA *bulbifera.* Leaves contrary, glabrous, with bulbs at the base. Stem flexuose. Tube of the corolla filiform below, obconic upwards. Bracteae lacerate, longer than the tube of the corolla; segments setaceous. Segments of the corolla elliptic. *Obs.* 7477. Specimen gathered in the garden of M. Deutz.—*L. sp.* 51. *Thunb. cap.* 10. *Gawl. in bot. mag. t.* 545. *Mill. Ph. dict. n.* 6. *Hort. kew.* i. 57.

Bracteae whitish, with blackish brown setaceous streaks. *Obs.* 7477.

IXIA bulbifera. *Bryant* 35.

3. IXIA *crocata.* Leaves ensiform. Flowers secundose. Tube of the corolla as long as the bracteae. Segments of the corolla rhombic, transparent at the base. *Obs.* 6245. In Mr. S. Shore's garden.—*Hort. kew.* i. 60. *Thunb. cap.* 10. *L.*

IXIA crocata. *Bryant* 35.

α *crocea.* Corolla of a saffron colour. *Obs.* 6245. *Hort. kew.* α

I. crocata. *L. sp.* 52; *mant.* 320. *L. fil. fasc.* 13. *t.* 7. *Curt. mag. t.* 184.

I. hyalina. *Salisb. R. allert.* 38.

Leaves vertical. *Scapus* with a joint; joint a little above the part which is clothed with leaves, with 2 lanceolate bracteae and the rudiment of a spike. *Calyx* membranaceous, as long again as the germen. *Corolla*, tube extending a little beyond the calyx. *Style* filiform, longer than the stamina. *Stigmata* 3, filiform, pubescent. *Obs.* 6245.

β *rubra*. Corolla of a fine red. *Hort. kew.* β

43. BERMUDIANA.

Corolla superior, sexpartite. *Stigmata* 3, dilate. *Obs.* 5302. *Tourn.*

Differs from *Ixia* in the corolla having no tube.

1. BERMUDIANA *guttata*. *Obs.* 7541. In the garden of Saville, who informed me that the root is similar to that of an Iris.

Moraea chinensis. *Murr. ap. L. a Murr.* 93. *L. a Willd.* i. 245. *Thunb. jap.* 34.

Ixia chinensis. *L. sp.* 52. *Hort. kew.* i. 62. *Curt. mag. t.* 171. *Lour.* i. 46.

Ixia foliis ensiformibus, floribus remotis. *Trew select.* 23. *t.* 52.

Belan Canda Schularmani. *Rhcede* xi. 73. *t.* 37.

Stem compressed, geniculate. *Leaves* ensiform, contrary, several times broader than the stem, perennial. *Panicle* trichotomous. *Peduncles* longer than the bracteae. *Corolla*, segments lanceolate. *Stamina* distinct. *Obs.* 7541.

IXIA chinensis. *Bryant* 34.

44. FERRARIA.

Calyx none. *Corolla* sexpartite; 3 outer segments broader. *Style* 1. *Capsule* trilocular, inferior. *From L. a Willd.—L.*

1. FERRARIA *pavonia.* Stem simple. Petals flat, the 3 inner as short again as the 3 outer. *From L. a Willd.* iii. 581, *L. fil. suppl.* 407, *&*

F. Tigridia. *Bot. mag. t.* 532.

Tigridis flos, Dracunculi species putata. *Bauh. J.* ii. 684, *cop. from*

Tigridis flos. *Lob. obs.* 59, *which repr. in ic.* i. 111, *Dod.* 421, *& Ger. by Johns.* 122; *& cop. in Dalech.* 1624. *Raii hist.* 1165.

OCOLOXOCHITL, seu Flos Tigris. *Hern.* 276. *t.*

45. GLADIOLUS.

Corolla superior; tube curved; limb sexpartite, irregular; segments unequal. *Calyx* none. *Stigmata* 3. *Obs.* 3847. *Hort. kew. L.*

1. GLADIOLUS *communis.* Corolla slightly ringent. Leaves ensiform. Bracteae longer than the tube. Flowers distinct. *Obs.* 3874. In a garden.—*L. sp.* 52. *Hort. kew.* i. 62. *Curt. mag. t.* 86.

Native of Italy, the south of France, Switzerland, Saxony, and the neighbourhood of Erford.

GLADIOLUS. Dale 246.

Victorialis rotunda. *Krock. n.* 55. *Spielm.* 582.

α *parviflorus.* Flowers secundose. Corolla $1\frac{1}{2}$ inch long. *Obs.* 8012. Specimen gathered in Lee's nursery.

G. minimus. *Lob. adv.* 511. No fig. In the gardens of Coys and Franqueville in London.

β *rubenti-grandiflorus.* Flowers secundose. Corolla 2 inches long, purplish red. *Obs.* 3874.—*Gouan monsp.* 67. β In meadows at la Lattes near Montpelier.—*Hort. kew.* i. 62. α

G. communis. *Scop. carn. n.* 48. *Gouan hort.* 25. α In cornfields near Montpelier.—*Gouan monsp.* 67 α *Mill. Ph. dict. n.* 1. *Host* 25. *Roth germ.* i. 18. In Saxony and near Erford.

G. floribus uno versu dispositis, major, floris colore purpureo-rubente. *Boerh.* ii. 127.

Victorialis foemina. *Cord.* 97.

Gladiolus. *Lob. adv.* 47. No figure.—*Dod.* 209, *repr. in*

G. italicus. *Ger. by Johns.* 104, &

G. narbonensis. *Lob. ic.* i. 98. *Park. parad. t.* 191. *f.* 1.

G. sive Xiphion. *Bauh. J.* ii. 701. Between Ferrara and Bologna, and between Burdigni and Thuiri.—*Raii hist.* 1168. In Italy.

G. byzantinus. *Park. parad. t.* 191. *f.* 3. *Mill. Ph. dict. n.* 3.

γ *incarnato-grandiflorus.* Flowers secundose. Corolla 2 inches long, flesh coloured. *Obs.* 4912. In a garden.—*Hort. kew.* i. 62 β

G. carnei coloris. *Boerh.* ii. 127.

G. sive Xiphion pallidiore flore. *Bauh. J.* ii. 702. Specimen found by Agerius in a meadow.

δ *albo-grandiflorus.* Flowers secundose. Corolla white. *From Hort. kew.* i. 62 γ

G. flore albo. *Lob. adv.* 511. No fig.

ε *distichus.* Flowers distichous. *Obs.* 8013. Specimen gathered by M. Broussonett, probably near Montpelier.—*Gouan monsp.* 67. γ, in meadows with α, but more rare.

G. utrinque floridus. *Magn. monsp.* 110. *Boerh.* ii. 126.

G. italicus. *Park. parad. t.* 191. *f.* 2. *Mill. Ph. dict. n.* 2.

G. utrimque floriferus. *Dod.* 209, *repr. in*

G. italicus binis florum ordinibus cinctus. *Lob. ic.* i. 99, *&*

G. narbonensis. *Ger. by Johns.* 104.

Gladiolus. *Dalech.* 1620.

46. IRIS.

Corolla superior; limb sexpartite; every other segment reflected. *Calyx* none. *Stigmata* 3, bilabiate at the end, with a longitudinal fissure on the upper surface. *Obs.* 3716. *L.*

1. *The reflected segments of the corolla bearded along the middle.*

1. IRIS *florentina.* Germen trigonous. Stem longer than the leaves, with mostly 2 flowers. Branches uniflorous. Flowers sessile. *Obs.* 8117. In a garden.—*L. sp.* 55. *Hort. kew.* i. 68. *Woodv.* i. 112. *t.* 39, who remarks that the roots in this country have not the odour of those produced in Italy.—*Sims in bot. mag. t.* 671. *Lob. adv.* 31. No figure.—*Ger. by Johns.* 52, *repr. from*

Iridis altera icon. *Dod.* 243, *which repr. in*

I. nostras vulgaris candidis floribus. *Lob. ic.* i. 59, *and cop. in*

I. flore albo. *Bauh. J.* ii. 719, who was informed by Dourez that he had seen in Illyria or Sclavonia what he believed to be this species.—*Raii hist.*

1180; *europ.* 155. On the walls of Florence in great plenty.

I. alba illyrica vulgo vel potius florentina. *Cam. hort.* 79. On a hill near Piperno.

I. alba florentina. *Park. parad.* 180. *t.* 183. *f.* 2. *Boerh.* ii. 124.

Stem 1½ foot long, erect, with 3 flowers. *Branches* distichous, alternate. *Corolla* bluish white; tube longer than the germen. *Obs.* 8117.

Native of Italy and probably of Illyria.

IRIS florentina. The root. *Pharm. edin.*—*Berg.* 39. *Cull.* ii. 459. *Dale* 247. *Geoffr.* ii. 98. *Herm.* 48. *Hill* 616. *Lew. disp. by Dunc.* 239. *Linn.* 47. *Mill. Jos.* 244. *Monro* iii. 147. *Murr.* v. 265; *J.* i. 342. *Spielm.* 270. *Syn.* i. 110. *Vog.* 201.

I. alba florentina. *Chom.* 15. *Neum.* ii. 141. *Rutty* 252.

Iris. Florentine Orris. The root. *Pharm. lond.*—*Alst.* i. 471. *Cartheus.* iii. 50. *Lew.* ii. 15.

2. IRIS *germanica*. Germen trigonous. Stem multiflorous, longer than the leaves. Inner segments of the corolla connivent, acute. Branches uniflorous. *Obs.* 3716. In a garden.—*Thunb. quoted in L. a Willd.* i. 229. *L. sp.* 55. *Hort. kew.* i. 68. *Sims in bot. mag. t.* 670. *Gouan. hort.* 25. On the sides of hedges about Montpelier.—*Raii europ.* 155. Throughout Germany. *Pollich n.* 34. *Roth germ.* ii. 41. *Fuchs.* 312, *c.* 120, *imit. in Trag.* 703, *which repr. in*

I. nostras. *Cord.* 133. *& cop. in*

I. vulgaris violacea sive purpurea, hortensis & silvestris. *Bauh. J.* ii. 709.

I. hortensis latifolia. *Vaill. paris.* 109. *Boerh.* ii. 124.

I. vulgaris. *Ger. by Johns.* 150, the description. (The fig. is I. Pseudacorus.)—*Lob. obs.* 32, *repr. in*

I. nostras vulgaris. *Lob. ic.* i. 59, &

I. palustris lutea. *Ger. by Johns.* 50, (the name and description belong to I. Pseudacorus.)

Iris. *Dod.* 243.

I. purpurea, sive vulgaris. *Park. parad.* 181. No fig.

I. domestica. *Dalech.* 1610.

I. silvestris. *Dalech.* 1611.

Leaves contrary, lanceolato-ensiform, slightly curved, the end mostly incurvate, sometimes recurvate, attenuate downwards. *Stem* with from 3 to 5 flowers, erect, from 2 to 2½ feet long. *Branches* erect, alternate, distichous, with 1 flower. *Flowers* solitary, sometimes sessile. *Peduncles* very short. *Bracteae* 2, membranaceous at the base of each peduncle. *Germen* trigonous, from 1½ to 4 times as long as the peduncle. *Corolla* with a scent analogous to the taste of candied orange peel; tube trigonous, somewhat longer than the germen, with 6 teeth at the mouth, projecting inwards from the commissures of the segments of the limb; segments, the 3 outer cuneiformi-obovate, recurvate, the upper half purple, the lower half white with brown veins; the 3 inner somewhat shorter than the outer, incurvate, unguiculate; ungues canaliculate, shorter than the tube, whitish with brown veins, slightly barbate within; laminae oval, repandose, acute at the end, bluish purple, rather broader than the outer. *Stigmata* elliptic, whitish blue; segments attenuate crose on the outer margin. *Obs.* 3716.

Native of Italy and France, and of Germany as far north as Erford, Saxony, and Silesia.

IRIS germanica. *Alst.* i. 472. *Coste & Willemet in med. comment.* v. 298. *Krock. n.* 56.

I. nostras. *Berg.* 38. *Linn.* 47. *Murr.* v. 269.

I. nostras hortensis. *Mill. Jos.* 245.

I. vulgaris nostras hortensis. *Dale* 247.

I. vulgaris germanica, sive sylvestris. *Chom.* 14; *suppl.* 5. *Geoffr.* ii. 98. 101. *Lew.* i. 14. *Rutty* 252. *Vog.* 201.

I. vulgaris violacea sive purpurea sylvestris. *Neum.* ii. 140.

3. *Corolla glabrous.*

3. IRIS *Pseudacorus.* Inner segments of the corolla smaller than the stigmata. *L. sp.* 56. *Curt. lond.* iii. 4. *t.* 197. *Bot. arrang.* 39. *Smith brit.* 41. *Woodv.* i. 114. *t.* 40. *Vahl. enum.* ii. 138. *Sibth. prodr.* 27. *Fl. dan. t.* 494.

I. foliis ensiformibus, corollis imberbibus, petalis interioribus stigmate minoribus. *L. suec. n.* 37.

Pseudoiris. *Dod.* 248, *repr. in*

Acorus nostra palustris. *Lob. ic.* i. 58, *&*

I. vulgaris. *Ger. by Johns.* 50, (the name and description belonging to I. germanica,) *cop. in*

Acorus palustris, seu Pseudoiris lutea palustris. *Park. theatr.* 1219; *and repr. in*

I. palustris lutea. *Ger. by Johns. ed.* ii. 50. *Raii hist.* 1186; *syn.* 374. *Vaill. paris.* 109.

Acorum, Gladiolus luteus. *Fuchs.* 13. *c.* 4. *cop. with the addition of a flower in*

Acorum adulterinum. *Trag.* 699, *which repr. in*

I. Pseudoacorus. *Cord.* 134; *& cop. in*

I. palustris lutea, sive Acorus adulterinus. *Bauh.*

J. ii. 732. The germen not well represented.—*Tourn. paris.* 278. *L. lapp. n.* 16.

Stem slightly compressed, with from 4 to 9 flowers. *Corolla* yellow; outer segments obovate, from less than 1 to 2 inches broad, narrowest in young shoots, the base of the laminae and ungues with purplish brown lines; ungues greenish on the outer side; inner segments oblong, cordate at the base. *Stigmata* yellow, bilabiate; upper lip bipartite, eroso-serrate. *Antherae* linear, brownish purple. *Obs.* 1836.

Native of Europe from Italy to Lapland.

IRIS Pseudacorus. The root. *Pharm. edin.*—*Krock. n.* 59. *Lew. disp. by Dunc.* 239. *Spielm.* 271.

I. palustris. *Lew.* ii. 16. *Linn. lapp. n.* 16 β *Monro* iii. 148. *Rutty* 253.

I. nostras. *Cull.* ii. 439. *Quarin animad.* 185. *Vog.* 201 β

Acorus palustris. *Berg.* 39. *Linn.* 47. *Murr.* v. 275.

Acorus vulgaris. *Vog.* 230.

Acorus adulterinus. *Alst.* i. 472. *Dale* 247. *Geoffr.* ii. 5. *Mill. Jos.* 13.

β *straminea.* Corolla pale yellow. *From Smith brit.* 42.

I. palustris pallida. *Dale ap. Raii syn.* 375. Between Hertford and Welling. What Ray says in the preceding paragraph of a white flower observed by Dale probably belongs to this.

4. IRIS *foetida.*—Inner petals very patent. Stem with 1 angle. Leaves ensiform. *L.*—*L. a Gmel.* ii. 115.

I. foetidissima. *L. sp.* 57. *Bot. arrang.* 40. *Smith brit.* 42. *Gort. belg. n.* 33.

I. foetidissima, seu Xyris. *Vaill. paris.* 109.
I. sylvestris, quam Xyrin vocant. *Raii syn.* 375.
Sphatula foetida. *Fuchs.* 754. *c.* 306, in fruit, *cop. in*
Sphatula foetida, seu Gladiolus italicus. *Trag.* 904, *&*
Spatula foetida, plerisque Xyris. *Bauh. J.* ii. 731, with a figure in flower.
Xyris & I. agria Theophrasti. *Lob. ic.* i. 70, *&*
I. sylvestris byzantina peramoena. *Lob. ic.* i. 69, (the name belongs to I. sibirica,) *repr. in*
Spatula foetida. *Dod.* 247, *&*
Xyris. *Ger. by Johns.* 60, *& cop. in*
Xyris Lobellii. *Dalech.* 1621.
Xyris Matthioli. *Dalech.* 1622, in fruit.

Native of Italy, France, Holland, the west of England, Kent, Essex, Bedfordshire, Cambridgeshire, Norfolk, and the south of Worcestershire, where rare.

IRIS foetida. *Dale* 248.
Xyris. *Geoffr. suite* iii. 426. *Linn.* 48.
Spatula foetida. *Mill. Jos.* 420. *Rutty* 490.

β *variegata.* Leaves with straw coloured stripes. *Obs.* 5332. In a garden.—*Bot. arrang.* 40. *var.* 2.

5. IRIS *virginica.* Stem two-edged. *L. a Gm.* ii. 115. *L. sp.* 58. *Hort. kew.* i. 72.

I. corollis imberbibus, germine trigono, caule ancipiti. *Gron. virg.* 7; *ed.* i. 11.
IRIS virginica. *Schoepf* 9.

6. IRIS *versicolor.* Germen triquetrous. Leaves ensiform. Stem slightly compressed. *Obs.* 7808. In Mr. Knowlton's garden.—*L. sp.* 57. *Hort.*

kew. i. 71. *Curt. mag. t.* 21, inner segments of the corolla represented as acute.

Root acrid. *Leaves* contrary, even with the stem, lanceolato-ensiform, the inner and sometimes the outer margin straight. *Stem* from 18 to 30 inches long, erect, branched from near the base, with 3 branches. *Branches* distichous, with from 2 to 4 flowers, leafless, erect, slightly compressed. *Flowers* fasciculate, erect. *Bracteae* at length scariose, brown. *Peduncles* obsoletely trigonous, as long as and longer than the bracteae. *Germen* once, twice, and thrice as short as the peduncle. *Corolla*, tube twice as short as the germen; 3 outer segments spatulate, twisting up as a cord after florescence; ungues greenish yellow with purplish brown veins; 3 inner segments oblongo-lanceolate, crenate at the end. *Style* as long as the tube of the corolla. *Stigmata* as long as the inner segments of the corolla, keeled on the upper side, blue above, flesh coloured below; keel purplish pink; upper lip bipartite; segments eroso-serrate; lower lip bifid; segments triangular, rather obtuse. *Obs.* 7808. June and July.

IRIS versicolor. *Bart.* 33. *Bartr. W. trav.* 454. *Schoepf* 9.

7. IRIS *verna*. Stem shorter than the leaves, with 1 flower. Root fibrous. *L. sp.* 58. *Hort. kew* i. 73.

IRIS verna. *Bart.* 33. *Schoepf* 10.

8. IRIS *edulis*. Leaf linear, pendulous, glabrous. Stem glabrous, multiflorous. *Thunb. cap.* 12. *Recens. pl. n.* 26.

Moraea edulis. *Sims in bot. mag. t.* 613.

I. longifolia. *Andr. repos. t.* 45.

Moraea fugar. *Jacq. ap. L. a Murr.* 93; *hort.* iii. *t.* 20.
IRIS edulis. *L. fil. suppl.* 98.

9. IRIS *Sisyrinchium.* Leaves canaliculate. Scapus with from 3 to 5 flowers. Bulbs when the plant in flower 2, one of which above the other. *From L. Vahl. Clus. & Park.—Vahl. enum.* ii. 144. *L. sp.* 59. *Hort. kew.* i. 74. *Sibth. prodr. n.* 95. In Laconia, and the isles of Cyprus Cimoli and Zante.

α *majus.* Leaves shorter than the scapus. *From*
Sisyrinchium majus. *Park. parad. t.* 169. *f.* 6, *&*
Sisynrichium majus. *Clus. hist.* i. 216, *which repr. in Dod.* 210, *Ger. by Johns.* 103,
Hyacinthus poeticus hispanicus, gemino gladioli reticulato bulbo. *Lob. obs.* 50, *&*
Sisynrichium Cordi & Clusii. *Lob. ic.* i. 97; *& cop. in*
Iridi bulbosae affine, Sisyrinchium majus. *Bauh. J.* ii. 708.
Sisyrhynchium majus, flore lutea macula notato. *Raii hist.* 1166.
Sysirhynchium majus. *Raii europ.* 243. In Sicily.
SISYRICHION majus. *Clus. hisp.* 279. No fig.

β *minus.* Leaves longer than the scapus. *From Clus.*
Sisyrynchium minus. *Raii hist.* 1166.
Sisynrichium minus. *Clus. hist.* i. 210, *which repr. in Dod.* 210, *Ger. by Johns.* 103,
Σισυριχιον Theophrasti. *Lob. obs.* 51, *&*
Parva Noselha. *Lob. ic.* i. 97; *cop in*
Iridi bulbosae affine, Sisyrinchium minus. *Bauh. J.* ii. 708, *& repr. from*
SISYRICHIUM minus II. *Clus. hisp.* 281.

49. KYLINGIA.

Bracteae 2, with 1 flower. *Calyx* diphyllous. *Seed* 1, triquetrous. *Obs.* 8403. *L. fil. suppl.* 11. *Rottb.*

Is a true Gramen.

1. KYLINGIA *monocephala.* Stem filiform, triquetrous. Spike roundish, sessile. Involucrum with 4 unequal bracteae. *Obs.* 8403. Specimen gathered by Broughton in Jamaica.—*L. fil. suppl.* 104. *Salisb. R. allert.* 31. *Swartz. obs.* 32. *Rottb. gram.* 13. *t.* 4. *f.* 4. *Vahl. enum.* ii. 379.

Scirpus cephalotes. *Jacq. hort.* i. 42. *t.* 97.

Schoenus coloratus. *L. sp.* 64.

Pee Motenga. *Rheede* xii. 99. *t.* 53, the bracteae of the involucrum equal.

(Gramen cyperoides spica compacta alba, foliis ad spicam partim albis partim viridibus. *Sloane hist.* i. 119. *t.* 78. *f.* 1, is a different species.)

Involucrum, all the bracteae unequal. *Spike*, bracteae membranaceous, one lanceolate, the other ovate. *Calyx* membranaceous; phylla ovate, somewhat mucronate, compressed, nervose, many times longer than the bracteae; carina aculeate, green. *Petal* lanceolato-oblong, membranaceous, so thin as to be difficultly discernible, somewhat longer than the germen. *Pistil* as long as the calyx. *Style* filiform, bifid. *Stigmata* filiform. *Obs.* 8403.

GRAMEN capitatum. *Rumph.* vi. 8. *t.* 3. *f.* 2.

2. KYLINGIA *triceps.* Heads mostly in threes, sessile, glomerate. Spikes very much crowded, somewhat imbricate. *Vahl. enum.* ii. 381. *L. fil. suppl.* 104. *Rottb. gram.* 14. *t.* 4. *f.* 6.

Kyllinga tricephala. *Salisb. R. allert.* 32.
MOTENGA. Rheede xii. 97. *t.* 52.

50. CYPERUS.

Bracteae in distichous spikes. *Calyx* and *Corolla* none. *Seed* 1, naked. *Obs.* 4957. *L.*

1. *Stem and scapus terete. L.*

1. CYPERUS *articulatus* Scapus articulated. *Obs.* 8664. Specimen gathered by Broughton in Jamaica.—*L. sp.* 66.

C. culmo nudo articuloso. *Royen* 51.

Juncus cyperoides creberrime geniculatus, medulla farctus, aquaticus, radice rubra tuberosa odorata. *Sloane cat.* 36; *hist.* i. 121. *t.* 81. *f.* 1.

C. rotundus americanus, caulibus articulatis. *Hist. ox. s.* 8. *t.* 11. *row* 1. *f.* 4, but the spikes improperly altered to imbricate, *cop. from*

APOYOMATLI, seu Phatzisiranda. *Hern.* 33.

2. *Stem triquetrous. Spikes alternate.* Vahl.

2. CYPERUS *esculentus.* Stem naked. Spikes lineari-lanceolate, distant. Umbels leafy, simple and compound. Leaves erect. Tubera ovate. *From Royen, & Vahl. enum.* ii. 345. *L. sp.* 67. *Gouan. monsp.* 389. Near pools and in salt water ditches in the neighbourhood of Montpelier.—*Donn* 8. *Raii hist.* 1301.

C. culmo triquetro nudo, panicula foliosa, radicum tuberibus ovatis zonis imbricatis. *Royen* 51. *Ger. Lud. prov.* 118.

C. paniculis squamosis, an Trasi. *Raii europ.* 112. In Sicily.

Malinathalla. *Col. phytob. t.* 5, *cop. in*
Trasi. *Bauh. J.* ii. 505. *Matth.* 543. *cop. in Dalech.* 1584, *&*
Dulcichinum cum flore. *Dod.* 340, *which repr. in*
Trasi cum flore. *Lob. obs.* 41,
Trasi veronensium. *Lob. ic.* i. 78, misprinted 77, the inner figure, &
C. esculentus, sive Trasi italorum. *Ger. by Johns.* 32; *cop. in*
C. esculentus, sive Trasi cum flore. *Park. theatr.* 147, *&*
C. dulcis Theophrasti. *Tab. ic.* 657, *which repr. in*
C. rotundus esculentus angustifolius. *Bauh. Casp. theatr.* 222. *Scheuch. J. agrost.* 382. Specimen found by Jussieu near Montpelier.—*Mont.* 12, who says it was not to be found near Verona, nor in the Bolognese.—*Boerh.* ii. 166.
Dulcichinum. *Dod.* 338, *repr. in*
Trasi veronensium. *Lob. obs.* 41; *ic.* i. 78, misprinted 77, the outer figure, *&*
C. esculentus, sine caule & flore. *Ger. by Johns.* 32; *& cop. in*
C. dulcis rotundus esculentus Trasi dulce vocatus. *Park. theatr.* 147. No flowers.
Native of Italy and the south of France.
CYPERUS esculentus. *Bryant* 29.
Trasi. *Dale* 257.

3. CYPERUS *rotundus*. Stem naked. Umbel leafy, supradecompound. Spikes lanceolate, acute. Tubera oblong. *Sibth. prodr. n.* 100. In Paros, Naxos, Santorini, and other Grecian islands.—(*L. sp.* 67 is C. hexastichos.)

C. rotundus odoratus parvus. *Mich. gen.* 45. On the banks of the Arno.

Cyperus. *Matth.* 26, *cop. in Cam. epit.* 9, the inner half, which *cop. in*

C. rotundus. *Tab. ic.* 656, *which repr. in*

C. rotundus vulgaris *Bauh. Casp. theatr.* 210, who says he found it at Montpelier, *& which cop. in*

C. rotundus odoratus vulgaris. *Hist. ox. s.* 8. *t.* 11, *row* 1. *f.* 1. *Raii hist.* 1299. *n.* 2. *par.* 4.

C. panicula crassiore minus sparsa. *Bauh. J.* ii. 501, misprinted 493, with a portion of the panicle. At Montbeliard. He describes the root as sweet to the taste, and when recent scentless.

C. rotundus vulgaris. *Hist. ox.* iii. 235. *Garid.* 143. *Tourn. inst.* 527.

C. Hodveg. *Alp. aegypt.* 44, *cop. in*

C. syriaca & cretica, rotundave. *Bauh. J.* ii. 502. *f.* 2—*f.* 1, roots received by Dourez from Venice, *cop. in*

C. rotundus odoratus orientalis major. *Hist. ox. s.* 8. *t.* 11. *row* 1. *f.* 2.

C. orientalis major. *Bauh. Casp. pin.* 13; *theatr.* 209. No fig.—*Hist. ox.* iii. 236.

CYPERUS rotundus. *Alst.* i. 431. *Berg.* 42. *Cartheus.* iii. 42. *Dale* 257. *Geoffr.* ii. 49. *Herm.* 40. *Lew.* i. 393. *Linn.* 49. *Mill. Jos.* 171. *Murr.* v. 317. *Neum.* ii. 200. *Spielm.* 264. *Vog.* 236.

C. odorata. *Rutty* 162.

Κυπειρος. *Diosc. l.* 1. *c.* 4.

4. CYPERUS *Papyrus.* Stem naked; angles obtuse. Compound spikes umbellate. Spikes subulate. The 4 outer bracteae of the involucrum lanceolate,

shorter than the umbel. *From Vahl. enum.* ii. 365, & *L. a Murr.* 97; *sp.* 70. *Donn* 15.

C. culmo triquetro nudo, umbella simplici foliosa, pedunculis simplicissimis distiche spicatis. *Royen* 50.

C. enodis, nudus, culmis e vaginis brevibus prodeuntibus, spicis tenuioribus. *Scheuch. agrost.* 387. *t.* 8. *f.* 14.

Papyrus. *Bruce* v. 1. *t.*

Papyrus nilotica. *Raii hist.* 1302. *Lob. adv.* 38, *repr. in ic.* i. 78, & *Ger. by Johns.* 40; & *cop. in Bauh. J.* ii. 506,

Papyrus aegyptia. *Dalech.* 1883, &

Papyrus nilotica Alpino. *Park. theatr.* 1207.

PAPYRUS. Dale 257.

C. Papyrus. *Bryant* 85.

5. CYPERUS *longus*. Stem leafy. Panicle umbellato-corymbose. Spikes lineari-lanceolate, approximate. Bracteae of the involucrum several times longer than the umbel, aculeate at the margin. *Obs.* 2254. Specimen gathered in Soles garden.—*L. sp.* 67. *Jacq. coll.* iii. 191; *ic.* ii. *t.* 297. *Sibth. prodr. n.* 99. In Greece frequent.—*Bot. arrang.* 45. *Scop. carn. n.* 55. *Host.* 29, who describes the seed as triquetrous.—*Smith brit.* 47. Found by Sir J. Cullum near St. Davids.—*Raii hist.* 1299. In Italy, Sicily, and about Montpelier; *syn.* 425. Found by Newton in the isle of Purbeck, Dorsetshire.—*Dod.* 336, *repr. in Ger. by Johns.* 30**, &

C. longus odoratior & habitior. *Lob. ic.* i. 75, *and cop. in*

C. longus odoratior. *Dalech.* 992, &

C. rotundus odoratus syriacus minor. *Park. theatr.*

146. (The name and description belong to a different species.)

C. culmo triquetro folioso, panicula foliosa supradecomposita, pedunculis nudis, spicis alternis. *Royen* 50. *Ger. Lud. prov.* 118.

C. longus odoratus, sive officinarum. *Magn. monsp.* 84.

C. longus odoratus major, panicula sparsa speciosa. *Hist. ox. s.* 8. *t.* 11. *row* 2. *f.* 13.

C. odoratus, radice longa, sive C. officinarum. *Mich. gen.* 45. Near Florence.—*Magn. hort.* 67. *Garid.* 143. *Vaill. paris.* 45. *Boerh.* ii. 165. *Scheuch. J. agrost.* 378. *t.* 8. *f.* 12.

C. panicula sparsa speciosa. *Bauh. J.* ii. 501, *cop. from*

Cyperus. *Fuchs.* 453, *which cop. in* 12*mo ed.* 444. *c.* 173, *and which abr. in Trag.* 915. *Matth.* 26, *cop. in Dalech.* 991, *and Cam. epit.* 9, *the outer half, which outer half cop. in*

C. longus. *Tab.* 656. *which repr. in*

C. longus odoratus. *Bauh. Casp. theatr.* 216. *Park. theatr.* 146. No figure.—*Hist. ox.* iii. 237.

CYPERUS longus. *Alst.* i. 430. *Berg.* 42. *Cartheus.* iii. 42. *Dale* 257. *Geoffr.* ii. 48. *Herm.* 40. *Lew.* i. 392. *Linn.* 49. *Mill. Jos.* 170. *Murr.* v. 316. *Spielm.* 264. *Vog.* 236.

Cyperus. *Lew. disp. by Rother.* 153.

6. CYPERUS *hexastichos*. Stem leafy at the base. Spikes lineari-lanceolate, mostly in sixes. Bracteae of the involucrum 2 and 3, longer than the umbel, glabrous, linear. Leaves glabrous, linear. *From Vahl and Scheuchzer.—Rottb.*

C. rotundus. *L. sp.* 67. *Vahl. enum.* ii. 343. *Thunb. trav.* iv. 148. In Java.

C. orientalis, radice olivari, spicis longis e spadiceo purpurascentibus. *Scheuch. J. agrost.* 391. *t.* 9. *f.* 3, a panicle, gathered by S. Brown in India.

Gramen cyperoides rarius & tenuius spicatum e Maderaspatan. *Pluk. alm.* 179. *t.* 192. *f.* 1, though the engraver has given it the appearance of being aristate.

Gramen cyperinum zeylanicum minus, Kalandura zeylonensibus. *Burm. J. thes.* 107, but he refers to figures more like Scirpi.

CYPERUS rotundus. *Lour.* i. 53.

7. CYPERUS *canescens* Spikes sessile, imbricate. Spikes and spiculae oblong, nearly terete, reflex. *Vahl. enum.* ii. 355.

WARA PULLU. *Rheede* xii. 77. *t.* 42.

8. CYPERUS *Iria.* Stem leafy below. Spikes linear. Flowers rather remote, obtusely mucronate. Bracteae of the involucrum microscopically aculeate at the margin. Leaves glabrous. *From L. sp.* 67, *Vahl. enum.* ii. 360, &

C. borneaceus, limonii panicula. *Scheuch. J. agrost.* 392. *t.* 9. *f.* 4, from a specimen gathered by S. Brown in India.

Gramen cyperoides indiae orientalis elatius, panicula sparsa pallescente. *Pluk. alm.* 179. *t.* 191. *f.* 7, is probably

C. madraspatanus, paniculis semen santonici aemulans. *Scheuch. J. agrost.* 390. *t.* 9. *f.* 2, which has shorter spikes, and is thought by Vahl to be a younger plant.

IRA, seu Balari. *Rheede* xii. 105. *t.* 56.

51. SCIRPUS.

Bracteae imbricate. *Calyx* and *Corolla* none. *Seed* 1, pappose at the base; *pappus* scabrous. *Obs.* 2272. *Bot. arrang.* 53, *note.—Hall.—L.*

1. *Bracteae shorter than the rachis. Spikes many, lateral.*

1. SCIRPUS *articulatus*. Scapus articulated. Spikes ovate, in globular heads. *From Vahl. enum.* ii. 258. *L. sp.* 70.
TSIELI. Rheede xii. 135. *t.* 71.

2. *Bracteae shorter than the rachis. Spikes many, terminal.*

2. SCIRPUS *maritimus*. Bracteae trifid at the end. Spikes crowded. Stem triquetrous. *Obs.* 5328. Specimen gathered at Friestone Shore, Lincolnshire. —*Vahl. enum.* ii. 269. *L. sp.* 74; *suec. n.* 47. *Bot. arrang.* 50. *Smith brit.* 56. *Pollich n.* 49. In salt marshes in the Palatinate.—*Reich. maenofranc. n.* 926. On the banks of the Maine.—*Schreb. lips.* 60. *Roth germ.* i. 23. On the banks of rivers and ditches and on the sea shore.—*Scop. carn. n.* 57.
SCIRPUS maritimus. *L. amoen.* v. 67.
α *littoreus*. Spikes to 9 tenths of an inch long. *Obs.* 5328. *Curt. lond.* iv. 4. *t.* 284. *L.* β *Bot. arrang.* 50 α *Huds.* 21 β
Cyperus panicula compacta, e spicis teretibus crassioribus composita. *Scheuch.* 400. *t.* 9. *f.* 9. 10.
Gramen cyperoides palustre, panicula sparsa. *Raii syn.* 425.

Gramen aquaticum cyperoides vulgatius. *Ger. by Johns.* 22, *cop. in*

Gramen cyperoides vulgatius aquaticum. *Bauh. J.* ii. 495.

Pappus microscopically aculeate; aculei reflex; not adhering to the ripe seeds, but to the receptacle. *Obs.* 3167. Specimen gathered in England.

β *palustris.* Spikes 4 tenths of an inch long. *Obs.* 1481. Salt marsh at Shirley Wich, Staffordshire. —*L.* δ ε *Huds.* 21. α *Bot. arrang.* 50 δ ε

Cyperus rotundus littoreus. *Ger. by Johns.* 31.

Cyperus rotundus littoreus inodorus. *Raii syn.* 426. Found by Doody and Dale about London and Maldon. (*Lob. obs.* 40, *repr. in ic.* i. 77, *and cop. in Bauh. J.* ii. 503, is represented as having axillary spikes.)

3. SCIRPUS *squarrosus.* Stem slightly trigonous. Spikes sessile, 1 to 4. Involucrum of 2 bracteae. Bracteae of the spikes ovate, aristate. *From L. mant.* 181, & *Vahl. enum.* ii. 259.

Gramen cyperoides orientale perpusillum, capitulis subrotundis hispidis, plerumque gemellis. *Pluk. mant.* 98. *t.* 350. *fol.* 98. *pl.* 6.

(Avenka. *Rheede* xii. 72. *t.* 36, is a species of Adiantum.)

MOTTA-PULLU. Rheede xii. 72. *t.* 38.

4. SCIRPUS *argenteus.* Stem triquetrous. Spikes sessile, numerous, cylindric, crowded. Involucrum very long, of 3 and 4 bracteae. *From Rottb. quoted in L. a Willd.* i. 311, &

Fimbristylis argenteum. *Vahl. enum.* ii. 294.

MULLEN-PULLU. Rheede xii. 101. *t.* 54.

51*. REMIREA.

Bracteae 2, containing 1 flower. *Calyx* diphyllous, smaller than the bracteae. *From*

1. REMIREA *maritima*. *Vahl. enum.* ii. 391. *Aubl.* *PARATURA*. *Pis. bras.* 115; *ind.* 238. No. fig.

52. NARDUS.

Bracteae none. *Calyx* diphyllous. *Corolla* none. *Obs.* 4424. *L.*

Differs from *Festuca* in the want of bracteae, and in the single style.

1. NARDUS *indica*. Spike setaceous, incurvate, glabrous. *Vahl. enum.* ii. 397. *L. fil. suppl.* 105. *NARDUS* indica. *Lour.* i. 57.

53. PENICILLARIA.

Bracteae 2, truncate, containing 2 flowers. *Calyx* diphyllous, concave, larger than the bracteae. *Style* 1, slightly bifid at the end. *Seed* obovate. *Obs.* 6569. The account of the style from L. and Royen.

1. PENICILLARIA *solitaria*. *Obs.* 6569. Specimen in fruit from Prof. Jos. F. Jacquin.

Holcus spicatus. *L. sp.* 1483, who describes 2 flowers within each pair of bracteae, 1 of which hermaphrodite, the other male.—*Salisb. W.* 46. *Donn* 220.

Panicum spica simplici aequali, pedunculis bifloris. *Royen* 54.

Panicum caeruleum. *Raii hist.* 1247, who says it is a native of Peru.—*Mill. Ph. dict. n.* 5. *Ger. by Johns.* 84, where are represented 3 peduncles with 1 seed in each pair of bracteae; *repr. from*

Panicum indicum. *Dod.* 498, *which repr. in ed.* ii. 507; *& cop. in*

Panicum caeruleum, sive indicum. *Bauh. J.* ii. 441, with a separate spike and 2 peduncles with 2 seeds within each pair of bracteae, which he also describes as mostly 2.

Panicum caeruleum indicum. *Lob. adv.* 15, raised from seeds from India sown in the gardens of Montpelier; *repr. in ic.* i. 43; *cop. in Tab. ic.* 280, *which repr. in*

Panicum indicum, spica obtusa caerulea. *Bauh. Casp. theatr.* 522; *abr. in Hist. ox. s.* 8. *t.* 3. *row* 3. *f.* 5; *repr. in*

Panicum americanum. *Clus. hist.* ii. 215; *and cop. in*

Panicum indicum caeruleum. *Park. theatr.* 1140. *Cam. hort.* 116.

Gramen alopecuroides indicum maximum. *Raii hist.* 1908. In the garden of Compton from Indian seeds.—*Hist. ox.* iii. 189. *n.* 7.

Panicum indicum, spica longiore villosa et interrupta. *Hist. ox. s.* 8. *t.* 3. *row* 3. *f.* 7. Bracteae acute. Spike aristate.

Gramen alopecuroides, spica maxima indiae orientalis. *Pluk. phyt. t.* 32. *f.* 4, bracteae acute. Spike without aristae.

Gramen paniceum, sive Panicum sylvestre maximum indiae orientalis. *Pluk. alm.* 174.

Stem erect. *Leaves* hirsute. *Petioles* hirsute. *Peduncle* striate, hirsute. *Racemus* oblong, with seeds set close. *Pedicles* hirsute, adpressed. *Involucrum* polyphyllous, as long as the pedicles, whitish brown; phylla setaceous, plumose, containing 1 flower. *Flower* a little longer than the involucrum, nearly sessile. *Bracteae* 2, ciliate, the upper margin retuse; *lower bractea* very short, oblong square, the longitudinal diameter the shortest; the *upper* thrice as long, square, with 3 ribs. *Calyx* diphyllous, more than twice as long as the upper bractea, greenish; phylla ovate, concave, nearly equal, ciliate, the lower with 7 ribs, glabrous, and slightly shining on the outside; the upper hirsute on the outside, quadrato-ovate, with 2 ribs, the sides on the outer side of the ribs membranaceous. *Filaments* 3. *Seed* obovate, glabrous, bluish white, terminated by the remains of the style, as long as the calyx, the upper part composed of the farinaceous cotyledon. *Obs.* 6569.

PANICUM caeruleum. *Mill. Ph. dict. n.* 5.

DIGYNIA.

54. ALOPECURUS.

Inserted on an erroneous supposition that the *Panicum alopecurodeum* of Mill. was *A. indicus*.

55. SACCHARIFERA.

Bracteae 2, with long hairs at the base. *Calyx* di-

phyllous. *Petals* 2. *Obs.* 5343. Specimen of *S. spontanea* from South Carolina.

Saccharum. *L. gen.* 73 from dried specimens; *mant.* 22. from another dried specimen.—*Juss.* 30. *Gaertn.* 82.

1. SACCHARIFERA *officinalis.*—Flowers paniculate. Leaves flat. *L.*

Saccharum officinarum. *L. sp.* 79. *Hort. kew.* i. 85. *Lour.* i. 66.

Saccharum. *Browne* 129.

Arundo saccharifera. *Bauh. Casp. pin.* 18. *Sloane cat.* 31; *hist.* i. 108. *t.* 66, a panicle.—*Rumph.* v. 186. *t.* 74. *f.* 1. *Boerh.* ii. 162. *Dalech.* 1002, *and Theophr. a Stap.* 483, *cop. from*

Harundo saccharina indica. *Lob. adv.* 19, *repr. in ic.* i. 49, *which cop. in*

Arundo saccharina. *Bauh. J.* ii. 531. *Raii hist.* 1278. *Ger. by Johns.* 38, *cop. in*

Harundo saccharifera. *Park. theatr.* 1210.

Arundo saccharifera Rottanga. *Rumph.* v. 191. *t.* 74. *f.* 2, probably described in the text under the title of

Arundo saccharifera tertia. 187, seems to be a variety with narrower leaves.

Sacharum. *Cord.* 211.

Sugar Canes. *Ogilby's china* 252. *t. Cazaud in ph. trans. cop. in gent. mag.* xlix. 580. *t.*

Bracteae 2, opposite, nearly equal. *Calyx* diphyllous, naked, without aristae. *Obs.* 8389. Specimen gathered by Dr. Wright in Jamaica.

Native of India.

ARUNDO saccharina. *Dale* 266.

Sugar Cane. *Blane* 59.

Cane plant. *Clark, James in med. facts* vii. 307.

CANE JUICE. *Graing.* 10. 13.

Cane liquor. *Graing.* 28.

SACCHARUM. *Alst.* ii. 473. *Fordyce G. pract.* 205. *Geoffr.* ii. 732. *Herm.* 703. *Hill* 794. *Lew.* ii. 287. *Linn.* 50. *Mill.* *Jos.* 383. *Monro* ii. 443. *Murr.* v. 390. *Pearson, R.* i. 90. *Ploucq. bibl.* i. 289. *Rutty* 444. *Spielm.* 571. *Vog.* 334.

Saccharum officinarum. *Bryant* 71. *Lew. disp. by Dunc.* 298. *Pearson, R.* i. 208. *Wright in med. journ.* viii. 281.

Saccharon. *Diosc. l.* 2. *c.* 104.

Saccaron. *Plin.* 304. *lin.* i. *l.* 12. *c.* 8.

Sugar. *Blane* 59. 303.—*Cull.* ii. 402. *Darw.* ii. 74. 466. *Fothergill J. in med. obs.* vi. 123. *Neum.* ii. 71. *Mosely, account from in chir. rev.* vi. 432. *Slare in phil. trans. abr. by Jones* v. *part* i. 353; *and by Hutton* vi. 72. *Trotter, account from in chir. rev.* ii. 51.

Saccharum non purificatum. Brown Sugar. *Pharm. lond.*

Saccharum vulgare. *Cartheus.* ii. 190.

Saccharum rubrum. *Fordyce G. pract.* 151.

Saccharum canariense. *Schoepf.* 11.

Saccharum purificatum. Refined Sugar. *Pharm. lond.*

Saccharum album. *Ware ophth.* 60.

MELASSES. *Blane* 58. 309. 506. 122. *Rush* ii. 72.

SPIRITUS sacchari. *Aaskow in act. haun.* i. 308.

Rum. *Blane* 323. 305. *Chalm.* i. 144. *Darw.* ii. 704. *Emerigon in Dawson rheumat. append.* 9. *Hunter jam.* 289. *Jackson jam.* 397. *Lettsom in*

med. obs. vi. 163. *Moseley* 79. *Pearson, R.* i. 106. *Rush* ii. 69. *Pringle* 283. *Sandford, account from in med. rev.* iii. 116.

Punch. *Bisset ess.* 253. *Chalm.* i. 167. 176. *Fothergill J. in med. obs.* vi. 131. *Phys. journ.* iii. 217. *Rush* i. 113.

α *alba.* Stem long, white; knots distant. *From Lour. var.* 1.

β *rubra.* Stem short, red; knots approximate. *From Lour. var.* 2.

γ *elephantina.* Stem long; knots approximate. *From Lour. var.* 3.

56. PEROTIS.

Bracteae none. *Calyx* diphyllous; phylla equal, aristate. *From Hort. kew.*

1. PEROTIS *latifolia.* Stem simple; knots glabrous. *From Hort. kew.* i. 85, & *L. a Willd.* i. 324.

Saccharum spicatum. *L. sp.* 79. *Thunb. cap.* 20. (*Burm. Laur. ind.* 23. *t.* 9. *f.* 3, has flat leaves.)

Alopecuros malabarica, foliis undulatis, spica praetenui. *Scheuch. J. agrost.* 91. *t.* 2. *f.* 9. *G. H.* Specimen gathered by S. Brown in India.

Gramen geniculatum brevifolium crispum, spica purpuro-sericea, maderaspatanum. *Pluk. alm.* 177; *phyt. t.* 119. *f.* 1.

Tsjeria-kuren-pullu. *Rheede* xii. 117. *t.* 62.

Alopecuros madraspatana, folio brevi crispo, spica purpurosericea. *Hist. ox.* iii. 191.

SACCHARUM spicatum. *Lour.* i. 67.

57. PHALARIS.

Bracteae 2, carinate, equal. *Calyx* cartilaginous, double. *Obs.* 373. *L.*

1. PHALARIS *canariensis*. Panicle nearly ovate, spikelike. Keel of the bracteae bordered, entire. Phylla of the outer calyx lanceolate. *Obs.* 373. In a garden.—*L. sp.* 79. *Hort. kew.* i. 85. *Bot. arrang.* 65. *Smith brit.* 62. *Roth germ.* i. 25. *Huds.* 23. On rubbish and the sides of roads.—*Gouan hort.* 33. On the sea coast near Montpelier.

P. major, semine albo. *Dill. ap. Raii syn.* 394, where it is noticed as a plant cultivated in fields.—*Hist. ox.* iii. 186. *s.* 8. *t.* 3. *f.* 1. *Boerh.* ii. 158. *Vaill. paris.* 159. *Scheuch. J. agrost.* 52. *Magn. monsp.* 202; *hort.* 158.

P. Dioscoridis. *Cord.* 101, *repr. from*

Phalaris. *Trag.* 669. *Dalech.* 415. *Bauh. J.* ii. 442. *Raii hist.* 1248. *Dod.* 501, *repr. in Lob. ic.* i. 43, *Ger. by Johns.* 86, *& cop. in*

P. vulgaris. *Park. theatr.* 1163.

PHALARIS. Dale 262.

P. canariensis. *Bryant* 342. *Krock. n.* 85.

Semen canariense. *Linn.* 50.

β *nigra*. Fruit blackish brown, smaller than that of α. *From*

P. major, semine nigro. *Raii hist.* 1248; *europ.* 202. About Messina, Baiae, Naples and Montpelier growing wild.—*Bauh. J.* ii. 443. No fig. —*Magn. monsp.* 202. On the sea coast near Montpelier.—*Magn. hort.* 158. *Boerh.* ii. 159. *Hist. ox.* iii. 186

P. semine nigro. *Park. theatr.* 1163. No figure.

Somewhat less than α in stalk, leaf, head, and chiefly in the fruit.

58. PANICUM.

Bracteae 2, mostly containing 2 flowers. *Calyx* diphyllous, that of the fertile flower mostly cartilaginous; that of the neutral flower sometimes monophyllous. *Obs.* 6557. *L.*

When there are 2 flowers the uppermost is mostly neutral, sometimes male as in *P. polygamum*, and *P. hordeaceum*. *Obs.* 6559. Specimen gathered by Broughton in Jamaica.—The neutral and male flowers are of a texture similar to that of the bracteae. To be convinced of the justness of this view of its structure, which was conjectured by Jussieu as early at least as the year 1782, it will be necessary to examine *P. polygamum*, where what Linnaeus calls the third valve and that which in *Bot. arrang.* 55, I have described as a fourth valve, compose the flower which contains the stamina, while the pistil is protected by a cartilaginous calyx. In other species I had before suspected the fourth valve to be the rudiment of a second flower, from observing that its margins were folded back on the side facing the third valve, and not facing the lower flower. In *P. hirtellum*, I have not been able to discover the inner phyllum of the upper flower.

1. PANICUM *indicum*. Panicle cylindric, straight, aristate. *From Mill. Ph. dict. n.* 3, *and Browne.* Panici americani sesquipedalis spica. *Clus. hist.* ii. 216, *cop. in Bauh. J.* ii. 441, &

Panici indiani duae species. *Park. theatr.* 1140; the outer figure, *repr. in*

P. americanum spica longissima. *Ger. by Johns.* 84, *and cop. in*

P. indicum, spica longissima. *Hist. ox.* iii. 188. *s.* 8. *t.* 3. *row* 3. *f.* 6. *Pluk. alm.* 278. *Bauh. Casp. pin.* 27; *theatr.* 523. No fig.—*Sloane cat.* 26; *hist.* i. 104. Introduced from Guinea into Jamaica, where sometimes cultivated in the gardens of the negroes.

P. aethiopicum. *Clus. exot. app. alt.* 262. No fig.

PANICUM erectum maximum, panicula stricta cylindracea aristata. *Browne* 134. Negroe Guinea-corn. Cultivated in several parts of Jamaica.

2. PANICUM *alopecurodeum.*—Spike simple. Involucra setaceous, aggregate, at the base of the flowers. *Gron.—Mill. Ph.*

P. spica simplici, aristis aggregatis flosculo subjectis. *Gron virg.* 12.

P. glaucum γ *L. sp. ed.* i. 56.

P. indicum altissimum, spicis simplicibus mollibus in foliorum alis pediculis longissimis insidentibus. *Tourn. inst.* 515.

PANICUM alopecurodeum. *Mill. Ph. dict. n.* 4, who speaks of it as a native of both Indies.

3. PANICUM *verticillatum.* Spike compound. Involucra setaceous, microscopically aculeate; aculei deflex. *Obs.* 6561. Specimen gathered in the Paris garden.—*Roth germ.* i. 26; ii. 69. *L. sp.* 82. *Curt. lond.* iv. 6. *t.* 260. *Bot. arrang.* 55. *Smith brit.* 64. *Gouan monsp.* 115.

P. vulgare, spica simplici et aspera. *Tourn. paris.* 123. *Vaill. paris.* 156.

Gramen geniculatum. *Tab. ic.* 200, *cop. in Ger. by Johns.* 15,

Gramen geniculatum minus. *Park. theatr.* 1177, &

Gramen geniculatum Tabern. *Bauh. J.* ii. 469; & *repr. in*

Gramen paniceum spica aspera. *Bauh. Casp. theatr.* 139. *Magn. monsp.* 116. *Scheuch. J. agrost.* 47. *Raii cat. ed.* ii. 148. Found by Willisel in a garden between Deptford and Greenwich.—*Raii hist.* 1263; *syn.* 394. Found by Newton in a field of turneps between Putney and Rough-hampton, and near Chelsea.

Leaves glabrous; margin microscopically aculeate; aculei patulous. *Petioles* amplexicaul, one margin lapping over the other; margin and end pilose. *Peduncle* scabrous to the hand, microscopically pubescenti-aculeate; aculei deflex. *Rachis of the spike* microscopically hirsute; hairs horizontal; *those of the spiculae* microscopically aculeate. *Involucra* attenuate, flexuose, patent, in threes in pairs and solitary, extending beyond the flowers and the end of the rachis. *Pedicles* very short, from the sides of the rachis and the base of the involucra, in pairs and solitary. *Obs.* 6562. Specimen from Curtis.

PANICUM verticillatum. *Honck. n.* 312. *Thunb. trav.* iv. 88.

4. PANICUM *sativum.* Spike decompound. Involucra setaceous. Fertile flowers glabrous. Rachides villose. *Obs.* 6567. Specimen gathered in the Vienna garden.—*L. cliff.* 26.

P. italicum. *L. sp.* 83; *mant.* 323. *Hort. kew.* i. 89. *Gouan monsp.* 34. Near Montpelier. Varies in the colour and size of the spike.—*Lour.* i. 58.

PANICUM. Dale 262. *Geoffr. suite* i. 311. *Mill. Jos.* 328.

P. italicum. *Bryant* 341. *Krock. n.* 91. *Pearson, R.* i. 76.

Milium. *Murr.* v. 430.

α *setosum.* Involucra thrice and four times longer than the calyces. *Obs.* 8665. Specimen from Dr. Boehmer.

P. italicum. *L. a Willd.* i. 336. *Honck. n.* 315. *Mill. Ph. dict. n.* 2.

P. quale Linnaei. *Krock. n.* 92.

Tenna. *Rheede* xii. 151. *t.* 79.

Panici secunda species. *Rumph.* v. 202.

Panicum. *Fuchs.* 255. *c.* 95, the inner fig. *cop. in Theophr. a Stap.* 930; both figures *cop. in*

P. vulgare. *Bauh. J.* ii. 440; *&* the fig. with the bending spike *cop. in*

Milium exiguum. *Trag.* 661.

P. indicum panicula villosa. *Raii hist.* 1247. *Park. theatr.* 1139, *cop. from*

Panicum. *Matth.* 406, *which cop. in*

Panici indici spica. *Dod.* 498, *which repr. in ed.* ii. 507,

P. aliud indicum, et hispanicum, panicula villosa. *Lob. obs.* 25,

P. aliud indicum, panicula villosa. *Lob. ic.* i. 42,

P. vulgare. *Clus. hist.* ii. 215. *&*

P. indicum. *Ger. by Johns.* 84; *& cop. in*

P. puniceum (misprinted punicum.) *Bauh. J.* ii. 440; the inner fig. *cop. in*

Panicum. *Cam. epit.* 195, the inner of the 2 figures,

P. sativum. *Dalech.* 412, *&*

P. indicum villosum hispanicum. *Tab. ic.* 279, *which repr. in*

P. italicum, sive panicula majore. *Bauh. Casp. theatr.* 519, *and cop. in Hist. ox. s.* 8. *t.* 3. *f.* 2. *Boerh.* ii. 158.

P. spica divulsa. *Bauh. J.* ii. 440.

Involucra about as long as the rachis of the spiculae. *Obs.* 6567.

β *multifidum.* Spike multifid at the end. *From* Panici tertia species. *Rumph.* v. 202. *t.* 75. *f. A.*

γ *submuticum.* Involucra twice as long as the calyces. *Obs.* 3230. Specimen gathered in the Paris garden.

P. italicum. *Krock. n.* 91.

P. germanicum. *Roth. germ.* i. 27; ii. 71. *Mill. Ph. dict. n.* 1. *L. a Willd.* i. 336. *Honck. n.* 316.

P. spica composita, aristis flosculo brevioribus. *L. ups.* 19.

P. spica composita, aristis gluma brevioribus. *Royen* 54.

Panicum. *Rumph.* v. 202. *t.* 75. *f.* 2.

P. Melyne. *Tab. ic.* 278, *repr. in*

P. germanicum, sive panicula minore. *Bauh. Casp. theatr.* 518, *and cop. in Hist. ox. s.* 8. *t.* 3. *row* 3. *f.* 1. *Raii hist.* 1247. *Boerh.* ii. 158.

Panicum. *Dod.* 498, *repr. in ed.* ii. 507, *Lob. obs.* 24, *& ic.* i. 41; *abr. in Cam. epit.* 195, outer fig. *repr. in*

P. vulgare. *Ger. by Johns.* 85; *& cop. in*

P. album vulgare. *Park. theatr.* 1139.

Calyx of the lower flower cartilaginous, glabrous, with microscopic dots disposed in longitudinal lines, but no prominent points; *that of the upper flower* diphyllous, the upper phyllum linear, membranaceous. *Obs.* 3230. Specimen gathered in the Paris garden.

5. PANICUM *corvipes*.—Spikes alternate, secundose. Spiculae subdivided. Calyces mostly aristate, hispid. Rachis trigonous. *L.*

P. Crus corvi. *L. sp.* 84. *Hort. kew.* i. 89.

PANICUM Crus corvi. *Thunb. trav.* iv. 88.

6. PANICUM *sanguinale*. Spikes verticillate, with a knot at the base on the inner side. Flowers in pairs, without aristae. Petioles dotted.—*L. sp.* 84. *Bot. arrang.* 57. *Curt. lond.* iv. 7. *t.* 242; *grass.* 49. *Huds.* 25. Near Battersea and Guildford in Surry.—*Smith brit.* 66. *Krock. n.* 95.

Digitaria sanguinalis. *Scop. carn. n.* 72.

Gramen dactylon, folio latiore. *Scheuch. J. agrost.* 101. *t.* 2. *f.* 2. *G*, *H*, *at the bottom of the plate.* In and about gardens in Zurich, growing spontaneously.

Gramen Ischaemon Plinii, sive Dactylon. *Dalech.* 426.

Gramen dactylon latiore folio. *Raii syn.* 399. Found by Willisel in the ploughed fields about Elden in Suffolk, and in pastures at Great Witchingham, Norfolk, but in the latter place Dr. Smith says it is not now to be found;—*hist.* 1272; *europ.* 135. In Italy, France, and Germany in corn fields.—*Tourn. paris.* 339. *Vaill. paris.* 85.

Gramen mannae prius Matthioli.—*Dalech.* 414, *abr. in*

Graminis genus, Deus caninus III, sive Gramen I, vel Galli crus. *Bauh. J.* ii. 444.

Ischaemon vulgare. *Lob. ic.* i. 24, *repr. in Ger. by Johns.* 27, *& cop. in*

Ischaemon sylvestre latiore folio. *Park. theatr.* 1178.

Gramen mannae primum. *Dod.* 549, *repr. in*
Gramen mannae esculentum. *Lob. ic.* i. 24.

Native of Italy, France, Switzerland, Germany, Surry, Suffolk, and Norfolk.

GRAMEN Mannae. *Dale* 264.

7. PANICUM *miliaceum.* Panicle lax, flaccid. Petioles hairy. Bracteae mucronate, nervose. *L. sp.* 86. *Hort. kew.* i. 90. *Roth germ.* i. 28. Naturalised about Frankfort, Berlin, and Jena.—*Krock. n.* 99. *Lour.* i. 59.

Milium Panicum. *Mill. Ph. dict. n.* 1.

Milium semine luteo. *Boerh.* ii. 162. *Vaill. paris.* 127.

Milium semine luteo vel albo. *Bauh. Casp. pin.* 26; *theatr.* 502, *cop. from*

Milium. *Matth.* 405, a panicle and leaf.—*Raii hist.* 1251. *Fuchs.* 411. *ed. fol. cop. in* 404. *c.* 158, *& Turn.* ii. *fol.* 57. *p.* 2; *abr. in Bauh. J.* ii. 446; *and imit. in Trag.* 658. *Cam. epit.* 193. *Brunsf.* iii. 216. *Dod.* 497, *repr. in ed.* ii. 506, *Lob. obs.* 24; *ic.* i. 39, *& Ger. by Johns.* 80, *and cop. in*

Milium vulgare album & nigrum. *Park. theatr.* 1137.

Milium nostras. *Dalech.* 409.

Bracteae 2, with 2 flowers, ovate, acuminate, nervose, glabrous; the upper one third longer than the lower. *Flowers*, the lower hermaphrodite, the upper neutral. *Calyx of the lower flower* cartilaginous, glabrous, shining, straw-coloured, oval; *that of the upper flower* of the same texture as the bracteae, the lower phyllum ovate, acuminate, just shorter than the upper bractea, the upper phyllum ovate,

obtuse, half as large as the lower. *Seed* invested by the permanent calyx, farinaceous. *Obs.* 3231. Specimen gathered in the Paris garden.

β *album.* Seeds white. *From Roth germ.* ii. 73. *var.* &

Milium semine albo. *Vaill. paris.* 127.

γ *nigrum.* Seeds black. *From Roth germ.* ii. 73. *var.* 2.

Milium nigrum. *Cam. hort.* 101. No fig.—*Tab. ic.* 278, *repr. in*

Milium semine nigro. *Bauh. theatr.* 505; *pin.* 26. *Vaill. paris.* 127. *Boerh.* ii. 162.

Milium semine nigro, et latiore juba. *Lob. obs.* 25. No fig.

MILIUM. Alst. ii. 363. *Cartheus.* i. 287. *Dale* 262. *Linn.* 50. *Mill. Jos.* 297. *Murr.* v. 430. *Rutty* 330. *Spielm.* 22. *Vog.* 178.

Milium vulgare. *Geoffr. suite* i. 59.

P. miliaceum. *Bryant* 341. *Pearson, R.* i. 76.

Millet. *Fordyce G. fev.* ii. 28. *Underw.* i. 342.

Miques. *Linn. amoen.* v. 67.

59. PHLEUM.

Bracteae 2, equal, keeled. *Calyx,* phylla 2, unequal, membranaceous. *Obs.* 4406. *Bot. arrang.* 61. *L.*

Linnaeus's character of *calyx truncate* is taken from the appearance of the side view of the bracteae when closed, and is merely owing to the bracteae in some species being *obtuse with a mucro* instead of *gradually tapering into a mucro* as in species the most nearly allied to them.

1. PHLEUM *africanum*. Spike cylindric, compact. Peduncles triflorous, pilose. *Lour*. i. 61.

60. HOLCUS.

Bracteae 2, cartilaginous, containing 1 flower. *Calyx* diphyllous, membranaceous; the outer phyllum with a twisted arista inserted into the back. *Obs*. 1498. *L*.

Male flowers interspersed. *Obs*. 1498.

1. HOLCUS *Sorghum*. Bracteae pubescent. Hermaphrodite flowers aristate. Panicle compact, ovate. *Obs*. 1498. Specimen from Mr. Ballard's garden.—*L*. *mant*. 500; *sp*. 1484. *Hort*. *kew*. iii. 424.

H. Durra. *Forsk*. 174.

H. glumis villosis. *L*. *ups*. 301, where for *Dalech*. read *Bauh*.

H. glumis villosis, seminibus aristatis. *Kram*. 286.

Panicum erectum maximum, panicula singulari erecta sparsa. *Browne* 135. Guinea corn.

Milium arundinaceum, subrotundo semine, Sorgo nominatum. *Boerh*. ii. 162.

Milium indicum, arundinaceo caule, granis flavescentibus. *Sloane cat*. 25.

Sorgum fructu rubro. *Besl*. *hort*. *aut*. *ord*. ii. *fol*. 13. *f*. 1.

Sorgum fructu albo. *Besl*. *hort*. *aut*. *ord*. ii. *fol*. 13. *f*. 2.

Sorghum. *Raii hist*. 1252. Cultivated in Friuli.

Sorgi. *Fuchs*. 771, *cop*. *in ed*. 12*mo* 732. *c*. 296,

Sorghi. *Bauh*. *J*. ii. 447, &

Milium indicum, sive Melica Dodonaei. *Dalech.* 410; *and abr. in*

Panicum. *Trag.* 660, *which repr. in*

Milium indicum. *Cord.* 143. *Matth.* 408; *abr. in Cam. epit.* 194; *cop. in Matth. a Casp. Bauh.* 330,

Milium indicum, sive Melica Matthioli. *Dalech.* 410, *&*

Sorgum. *Tab. ic.* 280; *which repr. in*

Milium arundinaceum, sive indicum, semine subrotundo. *Bauh. Casp. theatr.* 511. *Hist. ox. s.* 8. *t.* 5. *row* 2. *f.* 7.

Melica sive Sorghum. *Dod.* 499, *cop. in Park. theatr.* 1137, *& repr. in*

Sorgho. *Lob. obs.* 24,

Sorgo, Melica italorum. *Lob. ic.* i. 41, *&*

Sorghum. *Ger. by Johns.* 83, has a panicle rather loose.

Panici americani species & Sorghi cujusdam. *Park. theatr.* 1140.

Bracteae of the hermaphrodite flowers glabrous in the middle and sometimes to the very base. *Seed* elliptico-oval, slightly compressed, yellowish brown. *Obs.* 6568. Specimen gathered in the Vienna garden.

SORGHUM. Dale 263.

H. Sorghum. *Bryant* 335. *Linn. amoen.* v. 66. *Pearson, R.* i. 85.

Milium indicum. *Geoffr. suite* i. 63.

Guinea Corn. *Edwards west ind.* i. 197. *Graing.* 11.

Durra. *Neibuhr's trav.* ii. 342.

Dourra. *Sonnini's trav.* ii. 318.

2. HOLCUS *saccharatus*. Bracteae villose. Hermaphrodite flowers aristate. Panicle loose. *Obs.* 5347. Specimen gathered in the Paris garden.—*L. mant.* 500; *sp.* 1484. *Hort. kew.* iii. 425.

H. Dochna. *Forsk.* 174.

H glumis villosis. *L. cliff.* 469.

Panicum erectum maximum, paniculis plurimis declinatis. *Browne* 135. Guinea Wheat.

Sorgum. *Rumph.* v. 194. *t.* 75. *f.* 1. Seeds black, brown, and white.

Milium arundinaceum, semine plano et albo. *Raii hist.* 1253.

Sorghi album, Milium indicum, Dora. *Bauh. J.* ii. 448, the description. (The fig. is probably *H. bicolor.*)

Bracteae of the hermaphrodite flowers sericeo-villose, sometimes glabrous in the middle, but I suspect from the hairs having been rubbed off. *Seed* elliptico-oval, very slightly compressed, yellowish brown. I suspect that this and *H. Sorghum*, and perhaps *H. bicolor*, will prove to be only varities of one species. *Obs.* 5347.—*Rachis* scabrous. *Obs.* 5351. Specimen gathered in the Paris garden.—*Obs.* 8387. Specimen gathered by Dr. Wright in Jamaica, where called Guinea Wheat.

HOLCUS saccharatus. *Bryant* 336.

Indian Millet. *Rauwolff by Staph.* 171.

3. HOLCUS *bicolor*. Bracteae glabrous, black. Seeds aristate, globular, white. *L. mant.* 301. In the Upsal garden.—*Donn* 220.

H. glumis glabris. *L. cliff.* 468.

Milium indicum, arundinaceo caule, semine fusco, glumis splendentibus atris. *Pluk. alm.* 250, is probably a variety with brown seeds.

Sorghi album, Milium indicum, Dora. *Bauh. J.* ii. 448, the figure, which seems to have been formed by adding a stem and leaves to a panicle and seeds received from Florence under the name of the White Sorghum of Candia. (The description which belongs to *H. saccharatus,* was probably formed from the Antwerp specimen.)

Milium majus sabaeum. *Hist. ox. s.* 8. *t.* 5. *row* 2. *f.* 6?

Milium sabaeum. *Bauh. pin.* 26?

MELICA candida. *Dod.* 499.

Millo. *Vander-Hagen ap. Clus. cur. post.* 65. In the kingdom of Sabo in Guinea.

61. DIGITARIA.

Bracteae 2, nearly equal, carinate. *Calyx* diphyllous; both the phylla carinate. *Obs.* 3239. *Hall. Juss.*

Is not this a *Panicum,* in which if I may so express myself, a single membranaceous calyx performs the same office as the membranaceous and the cartilaginous calyx do in *P. polygamum;* in other words a *Panicum* without any superfluity in the calyx?

1. DIGITARIA *Dactylon.* Spikes verticillate, terminal. *Obs.* 3239. In a garden from a root found by J. Sibthorp between Penzance and Marazion, Cornwall.—*Scop. carn. n.* 73.

Panicum Dactylon. *L. sp.* 85. *Bot. arrang.* 58; *ed.* iv. 116. *t.* 21, by Mr. Stackhouse.—*Krock. n.* 96.

Gramen legitimum. *Tourn. paris.* 460. *Clus. hist.* ii. 217. *repr. from*

Gramen. *Clus. hisp.* 498, *& in*

Gramen canarium alterum. *Lob. ic.* i. 23,

Gramen dactiloides radice repente. *Ger. by Johns.* 28, *and cop. in*

Gramen canarium ischaemi paniculis. *Park. theatr.* 1179.

Gramen Dactylon, radice repente, sive officinarum. *Scheuch. J. agrost.* 104. *t.* 2. *f.* 11. *I. Vaill. paris.* 85.

Gramen vulgare. *Dalech.* 421.

Gramen repens cum panicula graminis mannae. *Bauh. J.* ii. 459. (The fig. is Coronilla varia.)—*Raii hist.* 1271. In Italy; *europ.* 135; *syn.* 399.

Native of Spain, Italy, France, Switzerland, Germany as far north as Jena, and of the sea coast of the western extremity of Cornwall.

GRAMEN Dactylon. *Dale* 264. *Geoffr.* iii. 527. *Seguier quoted in Linn.* 52. *note. Tourn.* ii. 404.

Gramen dactylon, folio arundinaceo majus, aculeatum forte Plinio. *Chom.* 224.

62. POA.

Bracteae 2, with many flowers. *Calyx*, phylla 2, ovate, without aristae. *Obs.* 5375.—*L.*

1. POA *cerealis*. Panicle capillary, loose, erect. Spikes with from 5 to 9 flowers, lineari-lanceolate. Smaller bractea somewhat shorter than the calyx. Leaves glabrous. *Obs.* 8602. Specimen gathered in the Vienna garden.—*Salisb. R. allert.* 20.

P. abyssinica. *Jacq. rar. t.* 43; *misc.* ii. 364. *Hort. kew.* i. 100.

Stem glabrous. *Panicle* scabrous, without hairs. *Seeds* oval, rufous, with an angle on one side at the base, nearly the twentieth of an inch long. *Obs.* 8602.

TEFF. Bruce trav. v. 79. *t, and an account from, in med comment. dec. II.* v. 188, judging from the description of the seed, pistil and stamina; but the figure of the panicle and the description of what is called a capsula do not at all agree either with my specimens or Jacquin's figure.

2. POA *amboinensis.* Panicle compact, secundose. Stem terete. *L. mant.* 557 ? ?

PHOENIX amboinica montana. *Rumph.* vi. 19. *t.* 7. *f.* 3, is described as having aristate flowers, and is therefore probably not a Poa. Retzius observes that a specimen sent him by Koenig for *P. amboinensis* differed widely from the figure and description of Rumphius.

63. ELEUSINE.

Bracteae 2, with many flowers. *Calyx* diphyllous. *Arillus* containing one seed. *Obs.* 6446. *Gaertn.*

1. ELEUSINE *sphaerosperma.* Seed subglobose. *Obs.* 6447. Specimen gathered in the Paris garden.

E. coracana. *Gaertn.*

E. cerealis. *Salisb. R. allert.* 19.

Cynosurus coracanus. *L.—H. K.* i. 106.

Panicum gramineum. *Rumph.* v. 203. *t.* 76. *f.* 2.

Tsjetti-pullu. *Rheede* xii. 149. *t.* 78.

Gramen dactylon orientale majus frumentaceum, semine napi. *Pluk. alm.* 174. *t.* 91. *f.* 5.

CYNOSURUS coracanus. *Bryant* 333. *Thunb. trav.* iv. 88.

Coracan. *Perciv. Rob. ceyl.* 335.

2. ELEUSINE *macrosperma.* Seed oblong. *Obs.* 6446. In the garden of Mr. S. Shore, from seeds from the Calcutta garden.

E. gracilis. *Salisb. R. allert.* 19.

Cynosurus indicus. *L.—H. K.* i. 106.

Stems ascending, tough. *Obs.* 6446.

GRAMEN vaccinum mas. *Rumph.* vi. 10. *t.* 4. *f.* 2.

3. ELEUSINE *mucronata.* Seed ovate. Bracteae and calyces mucronate. *Obs.* 6448. Specimen gathered by Broughton in Jamaica.

Cynosurus aegyptius. *L. sp.* 106. *Hort. kew.* i. 106

Kavara-pullu. *Rheede* xii. 131. *t.* 69.

Gramen ischaemum malabaricum speciosius, longioribus mucronatis foliis. *Pluk. alm.* 175. *t.* 300. *f.* 8.

Meiem el Msalib. *Alp. aegypt.* 48.

Gramen crucis, sive Neiemelmsalib. *Bauh. J.* ii. 460.

Gramen dactylum aegyptiacum. *Hist. ox. s.* 8. *t.* 3. *row* 1. *f.* 7.

Stem glabrous, shining. *Leaves* shining, ciliate towards the base. *Petioles* glabrous. *Spikes* terminal, 4 together with sometimes a fifth in the center, the 4 divaricate and horizontal, the fifth patent. *Involucra* diphyllous, at the base of each spike, setaceous. *Flowers* distichous, on the under side of

the rachis. *Bracteae* 2, with 4 flowers, mucronate. *Calyces* mucronate. *Styles* 2. *Obs.* 6556. In Mr. Shore's garden, raised from seeds from the Calcutta garden.

GRAMEN vaccinum femina. *Rumph.* vi. 10. *t.* 4. *f.* 1.

64. FESTUCA.

Bracteae 2, multiflorous. *Calyx* diphyllous, the outer mucronate, or aristate at the end. *Petals* 2. *Obs.* 4168. *L.*

1. FESTUCA *fluitans.* Panicle secundose, or spike compound. Spiculae lanceolato-linear. Petioles two-edged. Upper bractea oblong. Calyces scabrous, without aristae. *Obs.* 6358. In a meadow on the side of a drain with F. pratensis.—*L. sp.* 111. *Schreb. gram.* 37. *t.* 3. *Fl. dan. t.* 237. *Huds.* 46. *Lightf.* 103. *Bot. arrang.* 100.

α *paniculata.* Flowers in a panicle. *Obs.* 6358. *Curt. lond.* i. 7. *t.*

Gramen fluviatile. *Park. theatr.* 1275. *Ger. by Johns.* 14, *repr. from*

Gramen aquis innatans. *Lob. ic.* i. 12, *& cop. in*

Gramen aquaticum cum longissima panicula. *Bauh. J.* ii. 490. *R. syn.* 412.

Gramen aquaticum, fluitans, multiplici spica. *Tourn. paris.* 273. 457.

Gramen paniculatum aquaticum fluitans. *Vaill. paris.* 92.

Flote Fescue Grass. *Stilingfl. t.* 10.

Stem ascending, to 4 feet long, compressed. *Leaves* ensiform, striate, 2½ tenths of an inch broad, in drying conduplicate; margin obsoletely micros-

copically aculeate. *Panicle* straight, at first filiform and contracted, at length patent; branches in pairs; the longer branch when in flower divaricate, the other adpressed; when in fruit one patent, the other adpressed. *Spikes* lanceolato-linear, greenish, to 1 inch 1 tenth long, compressed. *Bracteae* obtuse, green with whitish shining membranaceous margins, the lower ovato-oblong. *Calyx*, the lower phyllum oblong, green, the end whitish shining and membranaceous, with 7 ribs. *Stamina* fallen off. *Obs.* 6358.

FESTUCA fluitans. *Bryant* 333. *Honck. n.* 467. *Krock. n.* 159. *Pearson, R.* i. 85.

Mannæ semina. *Schreb. ap. Linn.* 268.

Mannæ grana. *Berg.* 47.

Manna Schwaden. *Spielm.* 21.

β *spicata*. Flowers in a compound spike. *Obs.* 458. Near Worcester.

F. fluitans loliacea. *Huds.* 47. *Bot. arrang.* 101.

Gramen fluitans, locustis longis spicam aemulantibus. *Dill. ap. R. syn.* 412.

2. FESTUCA *indica*. Panicle contracted, erect. Spikes compressed, mostly aristate, with mostly 6 flowers. *Retz. obs.* iv. 21.

TSIAMA PULLU. *Rheede* xii. 75. *t.* 45.

64*. BROMUS.

Bracteae 2. *Calyx* diphyllous; with an arista inserted below the end of the outer phyllum. *Petals* 2, ovate, at the base of the germen. *Obs.* 4167. *L.*

1. *Bracteae containing several flowers.*

1. BROMUS *secalinus*. Flowers imbricate, the lower shorter than the rachis. Spikes elliptic, with 10 and 11 flowers. Aristae erect. *Obs.* 6368. Specimen gathered in corn fields between Winkburn and Newark, Nottinghamshire. 15 Aug.—*Smith in linn. trans.* iv. 281; *brit.* 125; *engl. t.* 1171. *L. sp.* 112. *Bot. arrang.* 103.

Festuca culmo paniculato, spicis compressis ovatis. *L. lapp. n.* 28.

BROMUS secalinus. *Krock. n.* 160.

α *pubescens*. Spikes pubescent. *Obs.* 6369. Specimen gathered by Mr. Ballard in Worcestershire.—*Bot. arrang.* β

Festuca spicis habitioribus, glumis incanis. *Dill. ap. R. syn.* 414. *n.* 8. *par.* 2.

Festuca graminea, glumis hirsutis. *Rudb. reliq.* 14. *t.*

Gramen gros montbelgardensium. *Bauh. J.* ii. 438. *Vaill. paris.* 95.

Gramen spica hirsuta, ad Gramen du gros accedens. *Tourn. paris.* 91.

Leaves hirsute above, pubescent underneath, *Petioles* glabrous. *Peduncle* glabrous. *Pedicles* pubescent. *Bracteae*, the lower with 3 and 5 ribs, the upper with 5 and 7. *Obs.* 6369.

β *glaber*. Spikes glabrous. *Obs.* 6368.—*Bot. arrang.* α

B. secalinus. *Lightf.* 1086.

Festuca avenacea, spicis habitioribus, glumis glabris. *R. syn. ed.* i. 192; *ed.* ii. 261; *ed.* iii. 414.

Gramen murorum Dalechampii. *Tourn. paris.* 90.

Gramen avenaceum segetale majus, gluma turgidiore. *Hist. ox. s.* 8. *t.* 7. *f.* 16.

Gramen avenaceum, locustis majoribus squamatis, segetale majus. *Hist. ox.* iii. 212.

Aegilops, sive Festuca. *Cam. epit.* 927.

Stem 30 inches long, glabrous. *Leaves* hirsute above, pubescent underneath. *Petioles* glabrous. *Stipula* erose. *Panicle* 5 inches long. *Peduncles* mostly uniflorous, sometimes biflorous. *Spikes* elliptic, flat, an inch long, with 10 and 11 flowers; flowers patulous, distinct. *Bracteae* nervose, obsoletely scabrous, membranaceous at the margin; the lower ovate, 2 tenths of an inch long, with 3 and 5 ribs; the upper oval, rather acute, with 9 and 6 ribs, one fourth longer than the lower. *Calyx* when in fruit nearly terete, the lower phyllum oval, nervose with 7 ribs, obsoletely scabrous at the margin and on the outside, one fourth longer than the upper bractea, emarginate at the end, the teeth obtuse, connivent; arista straight, erect, about the length of the phyllum, inserted at an eighth of the length of the phyllum below the end; upper phyllum lanceolate, ciliate, just sensibly shorter than the lower. *Seed* oblong, nearly terete, as long as the calyx. *Obs.* 6368.

2. BROMUS *catharticus*. Panicle patent, erect, nearly simple. Spikes elliptico-lanceolate, striate, scabrous. Aristae short, straight. *Vahl. symb.* ii. 22.

GRAMEN bromoides catharticum, vulgo Guilno. *Feuill. per.* 705. *t.* 1, *cited by Vahl.*

65. AVENA.

Bracteae 2, containing from 2 to several flowers. *Calyx* diphyllous, with a geniculate arista from

the back of the lower phyllum. *Petals* 2. *Obs.* 4992. *L.*

In most of the species the arista is twisted, but in *A. uncinata*, and *odorata* it is not. In several species the arista is always or occasionally wanting.

1. *Bracteae containing 2 flowers.*

1. AVENA *elatior.* Paniculate. Bracteae with 2 flowers, the hermaphrodite one without aristae, the male one with aristae. *L. sp.* 117. *Bot. arrang.* 112. *Curt. lond.* iii. 6. *t.* 191. *Fl. dan. t.* 165, the reduced fig. ill done.

Holcus avenaceus. *Scop. carn. n.* 1239. *Sibth. ox. n.* 126. *Smith brit.* 90. *Wiggers.*

α *aequalis.*—Stem equal at the base. *Bot. arrang.* 112. *L. sp.* 117 α

A. elatior. *L. suec. n.* 102. *Schreb. gram.* 25. *t.* 1.

Gramen avenaceum elatius, juba longa splendente. *Raii meth.* 179. *Scheuch. J. agrost.* 239. *Vaill. paris.* 89.

Gramen avenaceum panicula acerosa, semine pappose. *Dill. ap. Raii syn.* 406.

β *nodosa.* Stem ovate at the base. *From Bot. arrang.* 112. *L. sp.* 117 β

A. calycibus bifloris, flosculo hermaphrodito, masculo aristato. *L. suec. ed.* i. *n.* 98.

Gramen nodosum, avenacea panicula. *Raii syn. ed.* ii. 260; *ed.* iii. 406. *Scheuch. J. agrost.* 237. *t.* 4. *f.* 27. 28. *Vaill. paris.* 89. *Tourn. paris.* 199.

Gramen bulbosum nodosum. *Lob. adv.* 2, *repr. in ic.* i. 23, with the addition of a figure accurately representing the bulbous base of the stem; *the former cop. in*

Gramen nodosum vulgare. *Park. theatr.* 1176, *and the latter repr. in*

Gramen caninum nodosum. *Ger. by Johns.* 23. *Raii hist.* 1284.

Gramen nodosum. *Bauh. J.* ii. 456. *Dalech.* 429.

Gramen avenaceum elatius, radice tuberculis praedita. *Hist. ox. s.* 8. *t.* 7. *row* 2. *f.* 38.

Gramen caninum bulbosum vulgare. *Park. theatr.* 1176.

GRAMEN nodosum avenacea panicula. *Rutty* 221.

2. AVENA *sativa*. Paniculate. Bracteae with 2 and sometimes 1 flower. The lowermost flower sessile, sometimes with an arista, sometimes without. *Obs.* 6705. In a corn field, cultivated. 31 July.—*L. sp.* 118. *Hort. kew.* i. 113.

A. dispermis. *Mill. Ph. dict.*

Avena. *Cam. epit.* 191. *Fuchs.* 185. *c.* 67, *cop. in Bauh. J.* ii. 432, *and improved in Trag.* 653. *Dod.* 502, *repr. in*

A. vesca. *Lob. ic.* i. 31, *& Ger. by Johns.* 75; *and cop. in Park. theatr.* 1134, (but the aristae omitted in the copy which therefore represents γ)

Bracteae ovato-lanceolate, each with 11 ribs, $8\frac{1}{2}$ and $8\frac{3}{4}$ tenths of an inch long, $2\frac{1}{2}$ broad. *Calyces* mostly glabrous, or with only a few hairs at the base, nearly smooth, the ribs being scarcely obvious except at the end. *Arista* one third longer than the calyx, about the tenth of an inch longer than the bracteae. *Obs.* 6741.

AVENA. Oats. The seeds. *Pharm. lond.*—*Bang in act. haun.* i. 246. *Berg.* 58. *Blane* 308. 310. *Cullen* i. 278. *Fordyce, G. pract.* 207. *Lew.* i. 445. *Linn.* 51. *Mill. Jos.* 68. *Murr.* v.

383. *Quarin febr.* 204, 348, 355, 381, 382, 424. *Rutty* 47. *Schoepf.* 11. *Spielm.* 16. *Vog.* 158. *Wintringham in Mead mon.* i. 229. 261.

A. sativa. *Pharm. edin.—Bryant* 326. *Lew. disp. by Dune.* 166. *Pearson, R.* i. 71.

Oats. *Fordyce G. pract.* 149; *fev.* ii. 28.

FARINA avenacea. *Mead mon.* i. 34, 98.

Oatmeal. *Blane* 310. *Fordyce W. fev.* 143.

GRUEL. *Bree* 292. *Chalm.* i. 153; ii. 90. *Darw.* ii. 221. *Denm.* ii. 510. *Fothergill, J. in med. obs.* vi. 135.

Water Gruel. *Cull. clin.* 229. *Fordyce, G. fev.* iii. 230. *Pringle* 132. 158. *Wright in ann. med.* ii. 369.

SOWINS. *Blane* 310.

CEREVISIA. *Krock. n.* 178.

α *nigra.* Lower flower sometimes aristate. Calyces when ripe blackish brown. *Obs.* 6741. In a field, cultivated.

A. nigra. *Bauh. J.* ii. 432. *R. syn.* 389. *Vaill. paris.* 19.

Panicle with only 1 flower with an arista. *Obs.* 6741.

AVENA nigra. *Chom.* 746. *Dale* 263. *Geoffr.* iii. 146.

β *alba.* Lower flower aristate. Calyces when ripe straw coloured. *Obs.* 6742. In a field, cultivated.

A. alba. *Raii hist.* 1253; *syn.* 389.

A. vulgaris, sive alba. *Vaill. paris.* 19. *Boerh.* ii. 161.

AVENA alba. *Cartheus.* i. 284. *Geoffr.* iii. 145.

Avena. *Dale* 263.

A. vulgaris seu alba. *Chom.* 746.

White Oat. *Bryant* 326.

γ *mutica.* (Variation of β) Calyces without aristae. *Obs.* 950. In a field, cultivated.

A. vesca. *Park. theatr.* 1134.

Stem 3 feet 4 inches long, erect. *Petioles* with scattered flexuose hairs along the margin. *Peduncles* turbinate at the end. *Bracteae*, the lower with 8 ribs, one tenth shorter than the upper; the upper with 11 ribs. *Calyces* glabrous at the base, the lower phyllum one fourth shorter than the lower bractea, microscopically scabrous, lanceolato-ovate, with 7 ribs, slightly scariose and membranaceous at the end. *Germen* pilose. *Obs.* 6705.

δ *uniflora.* Bracteae with 1 flower. *From*

A. alba scotica, semine simplici, pediculo laxo pendente. *Richardson ap. R. syn.* 389.

2. *Bracteae containing 2 and 3 flowers.*

3. AVENA *nuda.* Paniculate. Bracteae with three flowers. Calyces of the lower flowers aristate, glabrous. Receptacle about as long as the bracteae. *Obs.* 1516. Among oats near Worcester, 28 Sept. —*L. a Murr.* 122; *sp.* 118. *Bot. arrang.* 113. *Curt. grass.* 44. *Hort. kew.* i. 113. *Hist. ox.* iii. 209. *n.* 4. *s.* 8. *t.* 7. *row* 1. *f.* 4. *Boerh.* ii. 161. *Lob. adv.* 9. No figure; *ic.* i. 32, *repr. in Ger. by Johns.* 75, *Dod.* 502, *and cop.* with an omission of the aristae, *in Park. theatr.* 1134. *Raii hist.* 1254, where he asserts that the calyx adheres more firmly to the seed than in A. sativa; but in *Camd. by Gibson* 26, he says, the seeds are as it were naturally denuded of the husk.—*Bauh. J.* ii. 433.

Petioles pilose at the margin, that of the uppermost reaching nearly to the base of the panicle.

Panicle contracted, attenuate. *Flowers* erect, thrice as narrow as those of A. sativa. *Bracteae* sometimes with the rudiment of a fourth flower. *Calyces*, the uppermost without an arista. *Receptacle* sometimes longer than the bracteae. *Calyx*, the outer phyllum striate at the base, dotted on each side of the striae, bifid at the end. *Aristae* extended beyond the flowers, somewhat shorter than the bracteae, geniculate, green, scarcely twisted below the geniculation. *Obs.* 1516.

AVENA nuda. *Bryant* 327.

66. ARUNDO.

Bracteae 2, with from 2 to many flowers. *Calyx* diphyllous, pilose at the base. *Obs.* 1723. *L.*

1. *Bracteae with more than* 1 *flower.*

1. ARUNDO *Phragmites.* Bracteae with 4 and 5 flowers. The lowermost flower without hairs at the base. *Obs.* 1723. Specimen gathered near Worcester.—*L. suec. n.* 105; *sp.* 120. *Bot. arrang.* 116. *Smith brit.* 144; *engl. t.* 401. *Pollich n.* 127. *Krock. n.* 185.

A. vulgaris, sive Phragmites Dioscoridis et Theophrasti. *Vaill. paris.* 16.

A. vulgaris, sive Phragmites Dioscoridis. *Boerh.* ii. 161. *Scheuch. J. agrost.* 161. *t.* 3. *f.* 14. *D.*

A. vulgaris palustris. *Hist. ox. s.* 8. *t.* 8. *row* 1. *f.* 1. *Bauh. J.* ii. 485, *cop. from*

Harundo Phragmites. *Dod.* 592, *which repr. in*

Calamos, A. vallatoria, sive Phragmites Dioscoridis. *Lob. ic.* i. 51; *cop. in*

Harundo vallatoria, sive vulgaris. *Park. theatr.* 1209, *&*

A. vallatoria. *Dalech.* 1000; *and repr. in Ger. by Johns.* 36. *Raii hist.* 1275; *syn.* 401.

Harundo. *Trag.* 674.

Native of Europe from Italy to Lapland

ARUNDO. Dale 265. *Mill. Jos.* 54. *Vog.* 231.

2. ARUNDO *Donax.* Bracteae with 5 flowers. Panicle diffuse. Stem fruticose. *L. a Murr.* 123; *sp.* 120. *Hort. kew.* i. 115.

A. sativa, quae Donax Dioscoridis. *Scheuch. J. agrost.* 159. *t.* 3. *f.* 14. *A, B, C. Boerh.* ii. 162. *Raii hist.* 1275.

Harundo Donax, sive cypria. *Dod.* 592, *repr. in*

A. Donax sativa, sive cypria. *Lob. ic.* i. 51,

A. cypria. *Ger. by Johns.* 36, *cop. in*

Harundo donax. *Park. theatr.* 1209, *& abr. in*

A. maxima et hortensis. *Bauh. J.* ii. 486.

A. palustris. *Dalech.* 1000.

ARUNDO Donax. *Dale* 265.

β *versicolor.* Leaves striped. *Obs.* 5367. Specimen gathered in the gardens of Fothergill and Paris.—*L. sp.* 123 β *Hort. kew.* i. 115 β

A. indica variegata, seu laconica Theophrasti. *Boerh.* ii. 162.

A. laconica Theophrasti. *Corn. t.* 55, *cop. in*

A. laconica versicolor. *Hist. ox. s.* 8. *t.* 8. *row* 1 *f.* 9, *& abr. in*

Harundo indica laconica versicolor. *Park. theatr.* 1209. Not in flower.

67. LOLIUM.

Bracteae solitary. *Obs.* 3249. *L.*

L. perenne in the structure of the flowers agrees with *Poa; L. temulentum* with *Bromus*, and *Triticum;* and *L. bromoides* is referred by Curtis to *Festuca*. Perhaps all had better be referred to the above mentioned genera. *Elymus Hystria* though destitute of bracteae is justly considered as an *Elymus*.

1. LOLIUM *temulentum*. Spike compound, with aristae; spiculae contiguous. *Obs*. 4085. In a corn field near Chesterfield.—*L. suec. n.* 109; *sp.* 122. *Bot. arrang.* 121. *Pollich n.* 130. *Schreb. gram. t.* 36. *Leers n.* 98. *t.* 12. *f.* 2. *Smith brit.* 150. *Fl. dan. t.* 160.

Native of Europe from Italy to Sweden.

LOLIUM. Dale 264. *Marsh in phys. journ.* i. 423.

L. temulentum. *Davis in phys. journ.* ii. 105. *Krock. n.* 190. *Landau, Mojon & Silvano, account from in edinb. journ.* i. 106.

α *aristatum*. Aristae twice as long as the calyx. *Obs*. 4085.

L. verum Gesneri, L. album. *Boerh.* ii. 157.

Gramen loliaceum, spica longiore, seu L. Dioscoridis. *Scheuch. J. agrost.* 31. *t.* 1. *f.* 7. *E, F.—Willich ill.* 12. *n.* 10, who notices an inner bractea.

Gramen loliaceum, spica longiore. *Rudb. reliq. t.* 12. *f.* 4.

L. gramineum spicatum, caput tentans. *Bauh. J.* ii. 437.

L. verum Gesneri. *Hist. ox.* iii. 181. *s.* 8. *t.* 2. *row* 2. the fig. with aristae.

Lolium. *Cam. epit.* 198. *Tab. ic.* 239.

Spiculae as long as the bractea. *Aristae* straight, half an inch long. *Obs*. 4085.

β *submuticum*. Aristae flaccid, capillary, twice as short as the calyx. *Obs.* 4086. Specimen from Withering, probably from Curtis's garden.—*Bot. arrang.* 121. *var.* 2. *Roth germ.* ii. 155. *var.*

L. arvense. *Smith brit.* 150. Found by Mackay in fields to the north of Forfar, Scotland;—*engl. t.* 1125. *With. in bot. arrang. ed.* iv. 168, probably from a specimen gathered with that above described.

Lolium. *Dalech.* 417. *Dod.* 529, *repr. in*

L. et Triticum temulentum. *Lob. ic.* i. 35, &

L. album. *Ger. by Johns.* 78; *and cop. in Park. theatr.* 1145. *Raii hist.* 1263; *syn.* 395.

Gramen loliaceum, spica longiore, sine aristis. *Vaill. paris.* 80.

L. verum Gesneri. *Hist. ox.* iii. 181. *s.* 8. *t.* 2. *row* 2, the 2 figures without aristae.

68. AEGILOPS.

Bracteae 2, equal, cloven at the end; segments terminating in aristae. *Calyx* diphyllous, the outer phyllum cloven at the end. *Obs.* 1357. *L.*

1. AEGILOPS *ovata*. Aristae of the bracteae very patent, thrice as long as the bractea. *Obs.* 1357. In a garden from seeds found among Malaga raisins.—*L. sp.* 1489. *Hort. kew.* iii. 427. *Gouan. hort.* 515. In corn fields and uncultivated places near Montpelier.—*Host.* 543. In Littorale and Istria.

A. spica ovata, aristis breviore. *L. ups.* 301. Biennial.—*Allion. nic.* 229. In corn fields.

Phleum Aegilops. *Scop. carn. n.* 78. About Trieste.

Aegilops. *Lob. adv.* 10. No fig.—*Dod.* 530, *repr. in*

Festuca, sive Aegylops narbonensis. *Lob. ic.* i. 34, *cop. in Park. theatr.* 1148, *repr. in*

Festuca italica, *Ger. by Johns.* 73, *& cop. in*

A. Lobellii et Penae. *Dalech.* 406.

A. narbonensis. *Raii hist.* 1290, where erase the A prefixed;—*europ.* 52. In Sicily, Italy, and the south of France.

A. secunda. *Dalech.* 406.

Gramen spicatum durioribus et crassioribus locustis, spica brevi. *Vaill. paris.* 82. *Scheuch. J. agrost.* 11. *t.* 1. *f.* 2.

Festuca graminea annua, sive A. capitulis duris. *Hist. ox. s.* 8. *t.* 7. *row* 1. *f.* 10.

A. peregrina. *Tab. ic.* 236, *repr. in*

Festuca, sive A. altera capitulis duris. *Bauh. Casp. theat.* 151.

A. altera. *Cam. epit.* 928.

Native of Sicily, Italy, the south of France, and observed by Vaillant near Paris.

FESTUCA. Dale 264.

69. SECALE.

Bracteae 2, containing 2 flowers. *Calyx*, phylla 2, the outer acuminate, ending in an arista. Petals 2. *Obs.* 1064. *L.*

Differs from *Festuca* only in the spiculae being disposed in a compound spike, and in the calyx containing only from 2 to 3 florets.

1. SECALE *cereale.* Ciliae of the calyces bowed up-

wards. *Obs.* 1064. Cultivated in a field.—*L. sp.* 124.

SECALE. Bang in act. haun. i. 254—256. *Berg.* 48. *Dale* 261. *Geoffr. suite* iii. 1. *Lew. disp. by Dunc.* 347. *Mill. Jos.* 405. *Murr.* v. 343. *Ploucq. bibl.* i. 431. *Quarin febr.* 218. *Rutty* 477. *Spielm.* 24. *Vog.* 83.

S. cereale. *Bryant* 330. *Pearson, R.* i. 78.

Rye. *Cavander, account from in phys. journ.* iii. 270. *Fordyce G. fev.* ii. 28. *Underw.* ii. 105.

PANIS secalinus. *Quarin febr.* 29.

α *hybernum.* (Variation.) Sown in autumn. *From authors.—L. sp.* 124. *Hort. kew.* i. 118.

S. hybernum vel majus. *Vaill. paris.* 181. *Boerh.* ii. 156.

Secale. *Cam. epit.* 190. *Raii hist.* 1241; *syn.* 388. *Tab. ic.* 258, *repr. in*

S. hybernum, sive majus. *Bauh. Casp. theatr* 425.

Siligo. *Trag.* 645, *the inner figure. The outer stem cop. from*

Secale. *Fuchs.* 728. *c.* 294, *which also cop. in Bauh. J.* ii. 426. *Dalech.* 396. *Lob. ic.* i. 28, *repr. in Ger. by Johns.* 68, *and cop. from*

Rogga, sive Secale. *Dod.* 490, *& in*

S. vulgatius. *Park. theatr.* 1128.

SECALE hybernum vel majus. *Chom.* 741.

β *vernum.* (Variation.) Sown in spring. *From authors.—L. sp.* 124. *Hort. kew.* i. 118.

S. vernum vel minus. *Boerh.* ii. 156. *Dill. ap. Raii syn.* 388. On the authority of Petiver, but Ray says it is never sown in the spring in Britain.

Siligo aestiva. *Trag.* 646. No figure.

70. HORDEUM.

Bracteae 2, on one side of the flower. *Calyx* diphyllous. *Petals* 2. *Obs.* 2587. *L.*

1. *Bracteae containing one flower.*

1. HORDEUM *hexastichum.* All the flowers hermaphrodite, aristate. Seeds disposed in 6 rows. *Obs.* 537. In a garden.

H. hexastichon. *L. sp.* 125. *Hort. kew.* i. 119.

H. flosculis omnibus hermaphroditis, seminibus sexfariam aequaliter positis. *L. ups.* 23. *Kram.* 25. Cultivated in fields about Trautmannsdorff, and Leytaepont [Bruck?] in Lower Austria.

H. spica polysticha, floribus omnibus hermaphroditis longe aristatis. *Hall. hist. n.* 1534.

H. polystichum vernum. *Boerh.* ii. 159.

H. hexastichum pulchrum. *Bauh. J.* ii. 429. No fig.—*Vaill. paris.* 105.

Hordeum. *Brunsf.* iii. 208. *Tourn. inst. t.* 295. *O.*

H. polystichum hybernum majus. *Tab. ic.* 274, *repr. in*

H. polystichum hybernum. *Bauh. Casp. theatr.* 438.

Root similar to that of *H. distichum.* *Stems* 3 feet long, similar to those of H. distichum. *Leaves* similar to those of H. distichum. *Spike* terete, nearly erect, 7½ inches long, exclusive of the aristae 2¼ inches long. *Aristae* more than twice as long as the spike. *Seeds* patulo-patent. *Obs.* 537.

HORDEUM hexastichon. *Bryant* 329, *Murr.* v. 361. *Spielm.* 18.

H. polystichum vernum. *Boecl. ap. Herm.* 364. *Chom.* 739. *Geoffr.* iii. 564.

2. HORDEUM *tetrastichum.* All the flowers hermaphrodite, aristate, in four rows. *Obs.* 2587. In a corn field, near Kidderminster.

H. vulgare. *L. sp.* 125. *Hort. kew.* i. 118. *Mill. Ph. dict. n.* 1.

H. flosculis omnibus hermaphroditis, seminibus corticatis. *L. ups.* 22. *Kram.* 25. Generally cultivated in Austria.

H. spica subdisticha, calyce folioso setaceo, floribus omnibus hermaphroditis longe aristatis. *Hall. hist. n.* 1533.

H. polystichum hybernum. *Boerh.* ii. 159. *Magn. monsp.* 132. Cultivated in fields; *hort.* 99. *Hist. ox.* iii. 206. *s.* 8. *t.* 6. *row* 3. *f.* 3.

Hordeum. *Matth.* 395. *Cam. epit.* 188. *Dod.* 492, *repr. in Lob. obs.* 15; *ic.* i. 28,

H. polystichum vernum. *Ger. by Johns.* 70, *and cop. in*

H. polystichum. *Park. theatr.* 1130. *Bauh. J.* ii. 429. No fig.—*Fuchs.* 430. *c.* 167, *cop. in Trag.* 638, inner fig.—*Raii hist.* 1244; *cant.* 77, among wheat; *syn.* 388. *Vaill. paris.* 105. *Dalech.* 399.

H. polystichum vernum. *Lob. ic.* i. 29. *Bauh. Casp. theatr.* 439, *repr. from*

H. polystichum aestivum. *Tab. ic.* 275.

Spikes slightly compressed, from 6 to 7½ inches long inclusive of the aristae, 2¾ long exclusive of the aristae; seeds from 20 to 45, the lateral ones patulous, the intermediate ones almost adpressed, more numerous, but many imperfect, and none so large or well tasted as those of H. distichum. *Aristae* nearly twice as long as the spike. *Obs.* 2587.

HORDEUM vulgare. *Bryant* 327. *Cartheus.* i. 284. *Pearson, R.* i. 73. *Spielm.* 18.
Hordeum. *Berg.* 55. *Murr.* v. 360.
Barley. *Neum.* ii. 255.
H. polystichum hybernum. *Boecl. ap. Herm.* 364. *Chom.* 738. *Geoffr.* iii. 563.
β *nudum.* Calyx not adhering to the seed. *From*
H. vulgare caeleste. *L. sp.* 125.
H. flosculis omnibus hermaphroditis, seminibus decorticatis. *L. ups.* 23.
Zeopyron. *Dod.* 486, *repr. in*
Zeopyrum, sive Triticum Spelthum, H. nudum vocatum. *Lob. ic.* i. 30, *&*
H. nudum. *Ger. by Johns.* 72, *& cop. in*
Zeopyrum, sive Tritico-speltum. *Park. theatr.* 1123,
Zeopyron gynmocrithon. *Dalech.* 394, *&*
H. nudum, sive Gymnocrithon. *Bauh. J.* ii. 430. *Raii hist.* 1908. *Bobert ap. Raii syn. ed.* i. 236. Cultivated in fields about Islip Oxfordshire, and in other places.
Triticum spica hordei londinensibus. *Raii syn.* 387. *Boerh.* ii. 155.
ZEOPYRUM. Dale 260.

3. HORDEUM *distichum.*—Lateral flowers male without aristae. Seeds angular, imbricate. *L.—Vaill. paris.* 105. *Raii hist.* 1243; *cant.* 77; *syn.* 388. *Tab. ic.* 274, *repr. in Bauh. Casp. theatr.* 440. *Fuchs.* 439, *cop. in ed.* 12*mo*, 430. c. 167, *Bauh. J.* ii. 429, *Dalech.* 398, *&*
H. minus. *Trag.* 638, inner figure.
H. distichon. *L. sp.* 125. *Hort. kew.* i. 119. *Dod.* 492, *repr. in ed.* ii. 501, *Lob. ic.* i. 29, *and Ger.*

by Johns. 70; *and cop. in Park. theatr.* 1130. *Magn. hort.* 99. *Boerh.* ii. 159.

H. Zeocriton. *Mill. Ph. dict. n.* 2, where for Zeocriton read distichon.

H. flosculis lateralibus masculis muticis, seminibus angularibus imbricatis. *L. ups.* 23. *Kram.* 25. In fields particularly about Leytaepont [Bruck?] in Lower Austria.

H. floribus lateralibus masculis muticis. *L. cliff.* 24.

Hordeum. *Tourn. inst. t.* 295. *L.*

H. vulgare distichum. *Hist. ox.* iii. 206. *s.* 8. *t.* 6. *row* 3. *f.* 1.

Spike 7¼ inches long inclusive of the aristae, 4 inches long exclusive of the aristae. *Flowers* in threes, sessile; lateral flowers abortive; intermediate flowers fertile. *Bracteae* subulate, hirsutulous underneath; those of the lateral flowers contiguous, those of the intermediate flower remote, aristate; aristae shorter than the bracteae. *Calyx* of the lateral flowers without aristae; outer phyllum of the intermediate flower aristate; arista terminal, more than twice as long as the spike. *Obs.* 536. In corn fields, cultivated.

HORDEUM. Barley. The seeds. *Pharm. lond.* —*Alst.* ii. 354. *Blane* 303. 309. 504. *Cook in phil. trans. for* 1776. *art.* 22. *Cull.* i. 274. *Dale* 261. *Heberd.* 27. *Lew.* i. 445. *Linn.* 51. *Mill. Jos.* 233. *Monchy in Pringle* 213. *Monro* iii. 134. *Murr.* v. 360. *Mead. mon.* i. 29. 32. 98. 110. *Quarin febr.* 15. 16. 19. 27. 89. 94. 103. 120. 127. 133. 142. 149. 162. 204. 219. 276. 282. 306. 319. 346. 355. 357. 381. 382. 407. 424. 429. 431; *animad.* 65. 215. 233. 252. *Rutty* 236.

Stoll aph. n. 579. 808; *med.* i. 111. *Vog.* 162. *Wintringham in Mead mon.* i. 229. 261.

H. distichon. The seed deprived of its rind. *Pharm. edin.—Boecl. ap. Herm.* 364. *Bryant* 328. *Lew. disp. by Dunc.* 233. *Murr. J.* ii. 46. *Schoepf.* 11. *Spielm.* 18.

H. mundatum et perlatum. *Dale* 261.

H. perlatum. Pearl Barley. The seed deprived of its rind. *Pharm. lond.—Lewis* i. 447.

Barley. *Blane* 309. *Bree* 292. *Chalm.* i. 218; ii. 90. 120. *Clegh.* 189. *Denm.* i. 270. 510. *Darw.* ii. 37. 97. 194. *Fordyce, W. fev.* 143. 167; *G. fev.* ii. 28. 34. 36; iii. 197. 216; iv. 119; *pract.* 149. *Pringle* 132. 138. 158. 276. 285. 310. *Reid T.* 177. *Rush* ii. 241; v. 120. *Underw.* i. 342. 355. *Willan lond.* 113. *Wright in ann. med.* ii. 368.

BYNE. Ploucq. bibl. i. 322.

Maltum. *Quarin animad.* 202. 316.

Malthus. *Rogert in act. haun.* i. 189.

Malt. *Blane* 57. 122. 504. 506. *Darw.* ii. 74. *Monro, Don. sold.* ii. 191. *Rutty* 238.

MUSTUM hordei. *Collin obs.* iv. 133.

Wort. *Aikin in Lew.* i. 448. *Blane* 59. *Clark, J. long. voy.* 421. *Richter quoted in Rollo diab.* 369. *Rush* ii. 286. *Rutty* 238.

CEREVISIA. Pearson, R. i. 102; ii. 202. *Ploucq. bibl.* i. 190. 346. 518. *Quarin febr.* 372; *animad.* 101.

Malt-liquor. *Blane* 320. 495. *Bree* 292. 298. *Fothergill, J. in med. obs.* vi. 109. *May* 50. *Trotter, account from in edinb. journ.* i. 75.

Beer. *Brown J.* ii. 249. *Darw.* ii. 99. 226. 245. 248. *Fothergill, J. in med. obs.* vi. 130. *Rush* ii. 71.

Cerevisia fortis. *Mead mon.* i. 34.

Cerevisia meraca. *Callisen in act. haun.* i. 362.

Ale. *Brown* ii. 249. *Clark J. long voy.* 263. *Darw.* ii. 217. 274. *Hull phlegmat.* 287. *Monro Alex. sen. in med. ess.* vi. 17. 18. *Underw.* ii. 21.

Cerevisia tenuis. *Heberd.* 2.

Small Beer. *Darw.* ii. 132. 133. 218. 223. *Fordyce G. fev.* iii. 216.

PORTER. *May* 50. *Rush* v. 120. 180.

SPIRITS. *Blane* 495. *Fothergill, J. in med. obs.* vi. 130. *Lettsom in med. soc.* i. 163. *Willan lond.* 133.

Distilled Spirits. *Chalm.* i. 153.

GIN. *Darw.* ii. 704. 745. *Lettsom in med. soc.* i. 163.

Dutch Spirit of Juniper. *Pringle* 216.

YEAST. *Bradley in phys. journ.* v. 145. *Brown, C. in phys. journ.* iii. 533. *Cartwright, account from in chir. rev.* i. 297. *Chir. rev.* viii. 84. *Custance in phys. journ.* iv. 19; v. 143. *Edlin ib.* v. 422. *Grose ib.* iii. 105; iv. 401. 539; v. 271. *Heath, account from ib.* xii. 192. *Hosack, account from in med. rev.* vi. 65. *Lewin in phys. journ.* ii. 374. *Pearson, R. in Beddoes airs* iii. 81; *and account from in ann. med.* i. 259. *Phys. journ.* iii. 561. *Rolfe in phys. journ.* v. 508; vi. 112. 196. *Thornton in Beddoes airs* iii. 100; *and account from in ann. med.* i. 260.

Barm. *Rutty* 527.

FOECES CEREVISIAE. *Ploucq. bibl.* i. 515.

β *nudum.* *L. sp.* 125.—Calyx not adhering to the seed. *Obs.* 474. In a garden.

Turkie Barley. *Park. theatr.* 1129. No fig.

Seeds elliptic, tawny, glabrous, 3 and two thirds tenths of an inch long. *Obs.* 474.

4. HORDEUM *Zeocriton.* Lateral flowers male, without aristae. Seeds angular, patent. *Obs.* 7937. Cultivated in a field near Stafford.—*L. sp.* 125. *Hort. kew.* i. 119.

H. distichon. *Mill. Ph. dict. n.* 3. where for distichon read Zeocriton, and for imbricatis read patentibus corticatis.

H. flosculis lateralibus masculis muticis, [seminibus] angularibus horizontalibus. *L. ups.* 23.

H. distichum, spica breviore et latiore, granis confertis. *Raii hist.* 1243; *syn.* 388. *Vaill. paris.* 105. *Boerh.* ii. 159.

H. distichon, spica lata compressa. *Hist. ox. s.* 8. *t.* 6. *row* 3. *f.* 2.

H. distichum minus. *Raii cant.* 77.

H. dictum germanis Oryza. *Bauh. J.* ii. 429.

Sprit Barley. *Park. theatr.* 1129. No fig.

Spike compressed, ovato-lanceolate, the aristae inclusive $7\frac{1}{2}$ inches long, the aristae exclusive $2\frac{1}{4}$ inches long. *Flowers* in threes, sessile; ternations alternate; lateral flowers abortive; intermediate flower fertile. *Bracteae* adpressed, slightly hirsute on the outer side; those of the lateral flowers contiguous, one rather lower than the other, subulate, mostly aristate; those of the intermediate flower remote, acute, mostly aristate; aristae twice and thrice as long as the bractea. *Calyx* of the lateral flowers without aristae; outer phyllum of the intermediate flower aristate; arista terminal, sometimes more than thrice as long as the spike. *Obs.* 7937.

HORDEUM Zeocriton. *Bryant* 330.

71. TRITICUM.

Bracteae 2, opposite, containing several flowers. *Calyx* diphyllous, mostly aristate; arista inserted below the end of the outer phyllum. Spiculae sessile. *Obs.* 969. *L.*

Differs from *Bromus* only in the spiculae being disposed in a compound spike.

1. TRITICUM *hybernum*. Spiculae with 4 flowers, ventricose, imbricate, mostly without aristae. *L. sp.* 126. *Hort. kew.* i. 120.

TRITICUM. Wheat. Flour. Starch. *Pharm. lond.—Alst.* ii. 378. *Bell surg.* i. 73. *Berg.* 49. *Blane* 309. *Cartheus.* i. 287. *Clark, J. long voy.* 516. *Cull.* i. 280. *Dale* 260. *Geoffr. suite* iii. 244. *Lew.* i. 445; *disp. by Dunc.* 318. *Mill. Jos.* 442. *Murr.* v. 319. *Rutty* 523. *Spielm.* 27.

T. hybernum. *Bryant* 319. *Murr. J.* i. 388. *Pearson, R.* i. 81.

Wheat. *Fordyce G. fev.* ii. 28.

FLOUR. *Blane* 307. *Darw.* ii. 16. *Denm.* i. 268; ii. 521. *Le Roy, account from in phys. journ.* i. 84. 154; *and chir. rev.* vi. 393. *Lempriere* ii. 223. *Monro, Don. sold.* i. 364. *Triquet in Pringle* 276. *Underw.* i. 136; iii. 142.

SEMOLINA. *Underw.* i. 223. 342; iii. 137. *Willich encycl.* iv. 51.

PANIS. *Berg.* 49. *Heberd.* 3. 280. 366. 405. *Ploucq. bibl.* i. 357. *Quarin febr.* 348. 357. *Rutty* 527.

Bread. *Blane* 494. *Bree* 292. *Cull. pract. n.* 1207. *Fordyce G. fev.* ii. 29. *Fordyce W. fev.* 143.

Fothergill, J. in med. obs. vi. 126. *Pringle* 276. *Underw.* i. 154; iii. 142.

FERMENTUM. Rutty 527.

PANADA. Clegh. 193. *Darw.* ii. 226. 302. *Fordyce W. fev.* 168; *G. fev.* ii. 36. *Fothergill J. in med. obs.* vi. 135. *Pringle* 131. 132. 158. 276. 314. *Underw.* i. 264.

Panado. *Chalm.* i. 84. 147. 153. *Clark J. long voy.* i. 187.

Panade. *Callisen in act. haun.* i. 362.

Panatella. *Quarin febr.* 19. 94. 127. 431.

BISCUIT. Blane 307. 494. *Bree* 292. *Underw.* i. 135.

Panis biscoctus. *Fordyce G. fev.* ii. 30. *Ploucq. bibl.* i. 659. *Quarin febr.* 183.

Sea Biscuit. *Darw.* ii. 128.

Bisket. *Chalm.* i. 218; ii. 18.

RUSKS. Fordyce G. fev. iii. 193. *Underw.* i. 135. 154.

FURFUR. Rutty 527.

Bran. *Rush* ii. 241.

AMYLUM. Pharm. lond. edin.—Bell surg. i. 73. *Berg.* 49. *Cull.* ii. 415. *Dale* 260. *Home, F. clin.* 114. *Heberd.* 128. *Lew. disp. by Dunc.* 141. *Linn.* 52. *Mead mon.* i. 132. *Murr. J.* ii. 37. *Quarin animad.* 233. *Rutty* 525.

Starch. *Blane* 484. *Cull. clin.* 308. *Darwin* ii. 59. 60. 180. *Hunter, J. jam.* 237. *Monro, Don. sold.* 364. *Pringle* 272. 273. 279.

PULVIS CYPRIUS. Berg. 49. *Linn.* 52. *Schoepf* 12.

SPIRITUS frumenti. *Bang in act. haun.* i. 5. 8. *Quarin anim.* 316. *Ranoë in act. haun.* i. 36. 386.

OLEUM tritici. *Wise in ann. med.* v. 479; *and account from in med. rev.* vii. 171.

α *submuticum*. Flowers mostly without aristae. *Obs.* 153. Cultivated in corn fields near Worcester.

Tritici primum genus. *Fuchs.* 618. *c.* 251, *cop. in*

T. primum. *Trag.* 634. *f.* 2, &

T. vulgare, glumas triturando deponens. *Bauh. J.* ii. 407.

T. hybernum aristis carens. *Hist. ox. s.* 8. *t.* 1. *row* 1. *f.* 1. *Vaill. paris.* 196. *Boerh.* ii. 155. *Bauh. Casp. theatr.* 352. *repr. from*

Triticum. *Tab. ic.* 258. *Dod.* 480, *repr. in*

Siligo spica mutica. *Lob. ic.* i. 25, &

T. spica mutica. *Ger. by Johns.* 65; *and cop. in Park. theatr.* 1120, *and Dalech.* 378. *Raii syn.* 386.

TRITICUM hybernum aristis carens. *Chom.* 742.

γ *aristatum*. Spike aristate. *Obs.* 7941. Specimen gathered in a corn field at Stone near Kidderminster, cultivated.

T. aristis circumvallatum, granis et spica rubentibus, glumis laevibus et splendentibus. *Raii syn.* 387. *Vaill. paris.* 196. *Boerh.* ii. 155.

T. aristis munitum, rubentibus granis et spica, glumis laevibus et splendentibus. *Raii hist.* 1238.

Triticum. *Cam. epit.* 185. *Matth.* 391. The outer fig. *cop. in Dalech.* 377, *which repr. in*

Le Froment. *Dalech. par Moul.* 316.

T. typhinum. *Tab. ic.* 260, *repr. in*

T. longioribus aristis, spica alba. *Bauh. Casp. theatr.* 374.

Seeds oblongo-oval, 3 tenths of an inch long, tawny. *Obs.* 7941.

2. TRITICUM *aestivum*. Spiculae with 4 flowers, ventricose, glabrous, imbricate, aristate. *L. sp.* 126. *Hort. kew.* i. 121.—*Vaill. paris.* 196. *Dill.*

ap. Raii syn. 387. *Hist. ox.* iii. 175. Sown in spring.

T. trimestre. *Hist. ox. s.* 8. *t.* 1. *row* 2. *f.* 10.

TRITICUM aestivum. *Bryant* 319. *Lew. disp. by Dunc.* 319. *Pearson, R.* i. 81. *Rutty* 523. *Spielm.* 26.

Triticum. *Murr.* v. 319.

β *decompositum.* Spike decompound. *From*

T. compositum. *L. fil. suppl.* 115. *L. a Murr.* 126.

T. multiplici spica. *Raii hist.* 1238. *Ger. by Johns.* 66, *cop. in Park. theatr.* 1120. *n.* 4, the lower figure.

3. TRITICUM *turgidum.* Spiculae with 3 and 4 flowers, villose, imbricate, obtuse. *Obs.* 5937. Specimen gathered in corn fields near Worcester, cultivated.—*L. sp.* 126. *Hort. kew.* i. 120.

TRITICUM turgidum. *Bryant* 320. *Murr.* v. 321.

α *brachystachyon.* Spikes shorter than those of β *From authors.*

T. turgidum. *Mill. Ph. dict. n.* 3.

T. radice annua, glumis ventricosis villosis imbricatis obtusis. *L. ups.* 21.

T. radice annua, glumis villosis. *L. cliff.* 24.

T. spica quadrata villosa breviori. *Boerh.* ii. 155.

T. spica villosa quadrata breviore et turgidiore. *Hist. ox.* iii. 176. *n.* 14. Square gray Wheat. Gray pollard Wheat. Duckbill Wheat.—*Vaill. paris.* 196.

T. spica villosa breviore. *Hist. ox. s.* 8. *t.* 1. *row* 2. *f.* 14.

T. aristatum, spica maxima cinericea, glumis hirsutis. *Raii syn.* 387.

Tragus, frumenti genus spica caerulea. *Dalech.* 377.

Robus, sive T. insulanis gallo-belgis Loca vocatum. *Lob. ic.* i. 27.

β *macrostachyon.* Calyces with aristae as long as the spike. *Obs.* 5937.

T. quadratum. *Mill. Ph. dict. n.* 4.

T. turgidum aristiferum. *Bryant* 321.

T. spica quadrata villosa longiori. *Boerh.* ii. 155.

T. spica villosa longiore. *Hist. ox. s.* 8. *t.* 1. *row* 2. *f.* 13.

T. spica villosa quadrata longiore, aristis munitum. *Hist. ox.* iii. 176. Cone Wheat.—*Raii syn.* 387. *Vaill. paris.* 196.

T. nigrum peregrinum. *Tab. ic.* 259, *repr. in.*

T. longioribus aristis, spica caerulea. *Bauh. Casp. theatr.* 372.

Tritici tertium genus. *Fuchs.* 618. *c.* 251, *cop. in*

T. tertium. *Trag.* 635. *t.* 634. *f.* 1, *&*

T. cinericeum maximis aristis donatum, triturando glumas deponens. *Bauh. J.* ii. 408, *&*

Tipha Fuchsii. *Dalech.* 392.

T. Loca vocatum alterum, et T. lucidum gallo-belgarum. *Lob. ic.* i. 27, *cop. in*

T. lucidum. *Park. theatr.* 1120.

T. typhinum. *Dod.* 481, *repr. in ed.* ii. 490,

T. aristis circumvallatum. *Lob. ic.* i. 26, *and Ger. by Johns.* 66, *& cop. in*

T. tiphinum. *Dalech.* 393,

T. aristis munitum. *Park. theatr.* 1120, *&*

T. tiphinum hispanicum. *Park. theatr.* 1125, raised from seeds found among seeds of Phalaris canariensis imported from the Canary islands, is described as having a stem shorter and slenderer and seeds smaller than those of T. hybernum.

γ *submuticum*. Calyces with aristae scarcely longer, and shorter than the calyx. *Obs.* 5938. In a corn field near Kidderminster, whether among α or T. hybernum I have omitted to notice.

T. aristis carens, glumis pubescentibus. *Vaill. paris.* 196.

T. turgidum conicum album. *Bryant* 321.

T. turgidum conicum rubrum. *Bryant* 321.

δ *polystachyon*. Spike decompound. Calyx aristate. *Obs.* 5939. Specimen from a corn field near Rotherham.—*L. cliff.* β

T. turgidum spica multiplici. *Bryant* 321.

T. cum multiplici spica glumas facile deponens. *Bauh. J.* ii. 407.

T. typhinum multiplici spica. *Tab. ic.* 260, *repr. in*

T. multiplici spica. *Bauh. Casp. theatr.* 371. *Lob. ic.* i. 26. (*Ger. by Johns.* 66, is probably T. aestivum decompositum.)

T. spica multiplici. *Vaill. paris.* 196. *n.* 3. *Raii syn.* 387. *Boerh.* ii. 155. *Bauh. Casp. pin.* 21. *Hist. ox.* iii. 175. *s.* 8. *t.* 1. *row* 1.

4. TRITICUM *Spelta*. Spike compressed. Spiculae with 4 flowers. The 2 lowermost flowers aristate, the upper rudiments of flowers. Internodia of the rachis slightly hirsute at the end. *Obs.* 7939. Specimen from Dr. Heise.—*L. sp.* 127; *a Murr.* 126. *Hort. kew.* i. 121. *Gouan. hort.* 57. At Alais and Castres, near Montpelier;—*monsp.* 128.

T. calycibus truncatis quadrifloris; flosculis aristatis hermaphroditis, intermedio neutro. *L. ups.* 21.

Zea, sive Spelta. *Magn. hort.* 209.

TRITICUM Spelta. *Bryant* 322. *Murr.* v. 321. *Pearson, R.* i. 81. *Spielm.* 27.

Zea. *Dale* 261.
Olyra. *Dale* 261.

α *aristatum*. Spike aristate. *Obs.* 7939.
Zea major, sive dicoccos. *Dalech.* 385. the outer figure.
Candidum Far. *Trag.* 645. *f.* 2, *imit. in*
Frumentum amyleum. *Tab. ic.* 262, *which repr. in*
Zea amylea, sive Olyra. *Bauh. Casp. theatr.* 419; *and imit. in*
T. amyleum. *Ger. by Johns.* 69, *which cop. in*
Olyra. *Park. theatr.* 1126. *Dalech.* 390.
Zea verna. *Bauh. J.* ii. 413. *Raii hist.* 1243.

Leaves 5 tenths of an inch broad. *Spike* 6 inches long, 3¼ long exclusive of the aristae. *Aristae* patulous. *Flowers* glabrous, whitish glaucous. *Bracteae* ovate, acute, with an obsolete tooth on the outer side of the extremity, the outer half larger than the inner half. *Calyx*, outer phyllum ovate, carinate, the keel bordered towards the end, acute, tridentate and entire, the costa terminated by an arista. *Rudiments of flowers* 2, monophyllous. *Obs.* 7939.—*Leaves* 3 tenths of an inch broad. *Bracteae* obtuse, obtusely tridentate. *Obs.* 7940. Specimen from Dr. Boehmer.

β *muticum*. Spike without aristae. *From*
Zeae primum genus. *Fuchs.* 283. *cop. in ed.* 12*mo*, *c.* 109,
Spelta. *Trag.* 642. the inner fig. *&*
Zea, sive Spelta. *Bauh. J.* ii. 412. *Ger. by Johns.* 69, *cop. from*
Zea adorea. *Tab. ic.* 261, *which repr. in*
Zea dicoccos, sive major. *Bauh. Casp. theatr.* 413, *& cop. in*
Zea spica mutica dicoccos, vel major. *Hist. ox. s.* 8. *t.* 6. *row* 3. *f.* 1.

Zea. *Cam. epit.* 189, *cop. in*
Zea dicoccos spica mutica. *Park. theatr.* 1124.

5. TRITICUM *monococcum.* Spike compressed. Spiculae with mostly 3 flowers. Lowermost flowers aristate, the middlemost barren. Rachis glabrous. *Obs.* 7938. Specimen from Prof. Jos. F. Jacquin. —*L. sp.* 127; *a Murr.* 126. *Hort. kew.* i. 121. *Roth germ.* i. 50. Among corn near Erlang; ii. 147. *Gouan. hort.* 57. At Montpelier;—*monsp.* 128.

Zea Briza, dicta Monococcos. *Magn. monsp.* 282. Amongst rye.
Monococcon. *Dod.* 484, *repr. in ed.* ii. 493,
Briza monococcos. *Lob. ic.* i. 31, *Ger. by Johns.* 73, *& cop. in*
Briza. *Dalech.* 395, *&*
Zea monococcos aristis munita. *Park. theatr.* 1124, the 3 inner figures.
Zeae alterum genus. *Fuchs.* 283. *c.* 119, *cop. in*
Spelta. *Trag.* 642. *f.* 1, *&*
Zea monococcos, Briza quibusdam. *Bauh. J.* ii. 413. Aristae short.
Zea monococcos. *Tab. ic.* 261, *repr. in*
Zea, Briza dicta, sive Monococcos germanica. *Bauh. Casp. theatr.* 415, *and perhaps cop. in*
Z. spica barbata, Briza dicta, Monococcos germanica. *Hist. ox. s.* 8. *t.* 6. *row* 3. *f.* 2.
Zea minor altera et monococcos. *Dalech.* 385. *f.* 1.

Leaves $1\frac{1}{2}$ and $1\frac{3}{4}$ tenth of an inch broad. *Peduncle* glabrous. *Spike* $4\frac{1}{4}$ inches long the aristae included, 2 inches long the aristae excluded, compound, distichous. *Spiculae* sessile, alternate, just contigu-

ous, triflorous, with 2 seeds. *Bracteae* ovate, pubescent, glaucous. *Calyx*, the lower phyllum ovate, glabrous and tawny below, pubescent and glaucous above, the costa terminating in an arista, with a minute acute tooth on each side. *Arista* scabrous, attenuate, with 3 longitudinal lines. *Seeds* like those of T. aestivum. *Obs.* 7938.

TRITICUM monococcon. *Bryant* 322. *Murr.* v. 321.

Briza. *Dale* 261.

Spelta. *Mill. Jos.* 421.

6. TRITICUM *polonicum*. Spiculae of 5 flowers. The inner phyllum of the calyx of the lowermost flower as short again as the outer phyllum. Aristae of the 2 lowermost flowers longer than the phylla. *Obs.* 5936. Specimen from a corn field near Rotherham.—*L. sp.* 127. *Hort. kew.* i. 121. *Pluk. phyt. t.* 231. *f.* 6.

T. majus, longiore grano glumis foliaceis incluso. *Boerh.* ii. 155.

T. majus, longiore grano glumis foliaceis incluso, seu T. poloniae dictum. *Dill. ap. Raii syn.* 387.

T. majus, gluma foliacea, seu T. polonicum D. Boberti. *Raii syn. ed.* ii. 245.

T. majus, gluma foliacea. *Bobert ap. Raii syn. ed.* i. 236, who received it out of Worcestershire, where it was cultivated.

Far clusinum. *Dalech.* 376, who says it was brought from Italy; *the description cop. in*

T. dictum Far clusinum Dalechampio. *Bauh. J.* ii. 408. No fig.

T. speciosum, grano oblongo. *Bauh. J.* ii. 410. In a garden. No fig.

T. majus, longiore grano glumis foliaceis incluso, poloniae dictum. *Hist. ox.* iii. 175. *n.* 8.
T. poloniae. *Hist. ox. s.* 8. *t.* 1. *row* 2. *f.* 8.
TRITICUM polonicum. *Bryant* 322.

7. TRITICUM *repens.* Bracteae striate, acute and aristate, with more than 5 ribs. Calyces cuspidate and aristate; aristae shorter than the calyces. Root creeping. *Obs.* 969. Near Worcester.—*L. suec. n.* 114; *sp.* 128. *Bot. arrang.* 128. *Smith brit.* 158. *Schreb. gram. t.* 26. *Krock. n.* 194.
GRAMEN. Aaskow in act. haun. i. 309. *Alst.* i. 374. *Berg.* 54. *Dale* 265. *Herm.* 73. *Lew.* i. 471; *disp. by Dunc.* 348. *Linn.* 52. *Murr.* v. 338. *Ploucq. bibl.* i. 482. *Quarin febr.* 18. 106. 125. 133. 143. 151. 158. 162. 163. 204. 239. 276. 282. 305. 307. 315 328. 344. 350. 366. 407. 424. 426. 427; *animad.* 123. 240. 241. 254. 261. *Schoepf* 12. *Spielm.* 561. *Stoll med.* ii. 44. 204. 347. 357. 403; iii. 7. 18. 22. 27. 109. 115. 129. 130. 135. 168. 192. 188. 185. 287. 376. 377; *aph. n.* 467.
Gramen caninum. *Mill. Jos.* 217.
Gramen caninum vulgare. *Geoffr.* iii. 527.
Gramen caninum arvense, seu Gramen Dioscoridis. *Chom.* 223. *Rutty* 221.
Gramen loliaceum radice repente, sive Gramen officinarum. *Tourn.* ii. 404.
Dog Grass. *Brera, account from in med. rev.* i. 580.
α *mucronatum.* Aristae a tenth of an inch long. *Obs.* 141. Near Worcester.—*Bot. arrang.* 129. β
T. repens. *Smith engl. t.* 909.

T. radice repente, foliis viridibus. *L. lapp. n.* 33. In the fields of the colonists.

Gramen caninum arvense, sive Gramen Dioscoridis. *Scheuch. J. agrost.* 5.

Gramen spica triticea repens vulgare, caninum dictum. *Raii syn.* 390.

Gramen caninum arvense, sive primum, sive Gramen Dioscoridis et officinarum. *Tourn. paris.* 271. *Bauh. Casp. theatr.* 7.

Gramen caninum, spica triticeae aliquatenus simili. *Raii meth.* 171. *Boerh.* ii. 155.

Gramen triticea spica compacta, latifolium. *Bauh. Casp. theatr.* 131, *repr. in*

Gramen latifolium, spica triticea compacta. *Bauh. Casp. prodr.* 17.

Gramen loliaceum radice repente, sive Gramen officinarum. *Vaill. paris.* 81.

Gramen canarium. *Lob. ic.* i. 20, *cop. in*

Gramen caninum vulgatius. *Park. theatr.* 1173, with a separate spike. *Hist. ox.* iii. 118. *s.* 8. *t.* 1. *f.* 8.

(Gramen. *Dod.* 548, *repr. in*

Gramen caninum. *Ger. by Johns.* 23, & *cop. in*

Gramen vulgare Dodonaei. *Dalech.* 421, has creeping roots, but the stem is paniculate.)

Native of Europe from Italy to Lapland, and of New England, into which latter country probably introduced from Europe along with Wheat. *Obs.* 8021. Specimen gathered by Dr. Cutler in corn fields in New England.

β *aristatum*. Aristae from 2 to 4 tenths of an inch long. *Obs.* 969. *Bot. arrang.* 129. *var.* 3.

T. repens. *Fl. dan. t.* 748.

T. caninum. *Gouan. hort.* 58. On the sea shore near Montpelier;—*monsp.* 128.

Gramen loliaceum, radice repente, sive Gramen officinarum aristis longioribus donatum. *Vaill. paris.* 81. *t.* 17. *f.* 2. Spiculae too patulous.

Omitted in the Order

MONOGYNIA.

47. XYRIS.

Calyx diphyllous. *Petals* 3. *Nectaria* 3, with articulated villi. *Capsule* superior, with 1 cell 3 valves and many seeds. *Obs.* 4317, from X. caroliniana.—*L.*

1. XYRIS *Jupicai.* Scapus two-edged above. Capitulum ovato-oblong. Phylla emarginate with a mucro. *From Vahl.—Act. soc. h. nat. par.*
X. americana. *Vahl. enum.* ii. 205. *Aubl.*
Gramen florens capitulo squamoso, Jupicai brasiliensibus. *Raii hist.* 1318.
JUPICAI. Pis. bras. 119; *ind.* 238.

2. XYRIS *indica.* Scapus sulcate, multangular. Capitulum ovate. *Vahl. enum.* ii. 204. *L. sp.* 63.
Gladiolo lacustri accedens malabarica, e capitulo botryoide florifera. *Pluk. alm.* 170. *t.* 416. *f.* 4.
KOTSJILETTI-PULLU. Rheede ix. 139. *t.* 71.

48. COMMELINA.

Calyx triphyllous and tetraphyllous. *Petals* 3 and 2. *Stamina* 3 and 2 perfect, 3 and 4 sterile with cruciform glands. *Capsule* trilocular and bilocular. *From L. Juss. and Lour.*

1. *Petals* 2. L.

1. COMMELINA *communis*. Leaves ovato-lanceolate, subsessile, acute, glabrous. Stem creeping, glabrous. Involucra cordate, conduplicate. *Vahl. enum.* ii. 170. *L. sp.* 60. *Hort. kew.* i. 76. *Thunb. jap.* 35.

C. procumbens annua, saponariae folio. *Dill. elth.* 93. *t.* 78. *f.* 89.

Ephemerum dipetalum japonicum. *Kaempf. amoen. t.* 889.

Planta innominata. *Marcgr. bras.* 8. *f.* 1.

Ephemerum africanum annuum flore bipetalo. *Herm. hort.* 231. *Hist. ox.* iii. 606. *s.* 15. *t.* 2. *f.* 3.

(Coapotiragra. *Marcg. bras.* 8. is a different plant.)

COMMELINA communis. *Lour.* i. 48.

2. *Petals* 3. L.

2. COMMELINA *edulis*. Scapus naked. Leaves lanceolate. Flowers alternately spicate. *From* *COMMELINA* tuberosa. *Lour.* i. 50.

3. COMMELINA *medica*. Scapus nearly naked. Leaves subulate. *From Lour.* i. 50.

4. COMMELINA *tuberosa*. Leaves ovato-lanceolate, sessile, ciliate. Involucra cordate, conduplicate. Stem erect. *Vahl. enum.* ii. 171. *L. sp.* 61. *Hort. kew.* i. 76.

C. corollis aequalibus, foliis ovato-lanceolatis subciliatis. *L. ups.* 18.

C. foliis ovato-lanceolatis, petalis tribus majoribus aequalibus. *L. cliff.* 21. *Royen* 38.

C. radice anacampserotis. *Dill. hort.* 94. *t.* 79. *f.* 90. From Mexican seeds.

(Ephemerum phalangoides virginianum majus erectum. *Pluk. alm.* 135. *t.* 174. *f.* 4, is a different species.)

MATLALYTZTIC TETZOCANA. Hern. 258.

52*. SPINIFEX.

Bracteae 2, containing 1 and 2 flowers. *Calyx* diphyllous. *Style* 1. *From L. fil. ap. L. amoen.* x. *pars* ii. 30. 39. *t.* 1.

Male flowers, with imperfect hermaphrodite flowers interspersed, on a distinct plant. *From L. fil. ib.*

1. SPINIFEX *squarrosus*. *L. mant.* 300; *a Murr.* 902. *L. fil. suppl.* 432.

Gramen dactylon pumilum malabaricum, spicis loliaceis in acutam spinam terminatis. *Scheuch. J. agrost.* 112. *t.* 2. *f.* 11. *O.* Specimen gathered by S. Brown in Malabar.

Cyperus littoreus. *Rumph.* vi. 6. *t.* 2. *f.* 2.

(Arundo arborescens tabaxifera. *Hist. ox.* iii. 219. *s.* 8. *t.* 8. *f.* 11, is Bambos quinqueflora.)
ILY-MULLU. *Rheede* xii. 143. *t.* 75.

Class

Class 4.

TETRANDRIA.

Order 1.

MONOGYNIA.

1 *Corolla monopetalous, inferior. Seed* 1. L.

72. GLOBULARIA. *Corolla* bilabiate, and ligulate. *Seed* naked. *From L. and Juss.*

74. SCABIOSA. *Corolla* equal and unequal. *Seeds* with a pappus. *Obs.* 4973.

2. *Corolla monopetalous, superior. Seed* 1.

73. DIPSACUS. *Seeds* columnar.

3. *Corolla monopetalous, superior. Fruit dicoccous.* L.

80. RUBIA. *Corolla* campanulate. *Berries* 2.

78. GALIUM. *Corolla* rotate or campanulate. *Capsule. Obs.* 507.

77. ASPERULA. *Corolla* infundibuliform. *Capsule. Obs.* 1187.

76. SPERMACOCE. *Corolla* tubular. *Fruit* coronate. *Seeds* bidentate.

79. CRUCIANELLA. *Corolla* infundibuliform; segments caudate. *Fruit* naked. *Seeds* linear. *Obs.* 8646.

4. *Corolla monopetalous, inferior. Fruit single.* L.

84. CALLICARPA. *Corolla* tubular. *Calyx* quadrifid. *Berry* tetraspermous. *L.*

86. SCOPARIA. *Corolla* rotate. *Calyx* quadripartite. *Capsule* unilocular, cut round.

85. PLANTAGO. *Corolla*, limb bent back. *Calyx* quadripartite. *Capsule* bilocular, cut round. *L.*

100. SALVADORA. *Corolla* campanulate. *Calyx* quadridentate. *Berry* monospermous. *L.*

5. *Corolla monopetalous, superior. Fruit single, and didymous.*

82. PAVETTA. *Corolla* infundibuliform. *Berry* bilocular; cells monospermous. *Stigma* simple. *Obs.* 8459.

81. IXORA. *Corolla* hypocrateriform and infundibuliform. *Berry* bilocular; cells monospermous. *Stigma* bifid. *Obs*, 6822.

88. MITCHELLA. *Corolla* tubular, 2 to one germen. *Calyces* quadridentate, 2 to one germen. *Berry* bifid, tetraspermous. *Obs.* 3273.

75. HEDYOTIS. *Corolla* tubular. *Calyx* quadripartite. *Capsule* didymous, polyspermous, opening at the end. *L.*

94. OLDENLANDIA. *Corolla* tubular. *Calyx* quadripartite. *Capsule* didymous, polyspermous, opening between the teeth. *L.*

6. *Petals* 4. *Flowers inferior.* L.

91. FAGARA. *Calyx* quadrifid. *Capsule* simple or didymous. *Seeds* solitary.

93. PTELIA. *Calyx* quadripartite. *Stigmata* 2. *Samara* bilocular, monospermous. *Obs.* 8380.

92. MONETIA. *Calyx* quadrifid. *Petals* linear, *Berry* bilocular. *From L. a Willd.*

96. GLEDITSIA. *Calyx* quadrifid, triphyllous, and pentaphyllous. *Legumen. From L.*

87. SANGUISORBA. *Calyx* urceolate. *Petals* inserted into the calyx. *Stigmata* pencil-shaped. *Obs.* 4960.

7. *Petals* 4. *Flowers semiinferior.*

88. CISSUS. *Berry* monospermous.

8. *Petals* 4. *Flowers superior.* L.

97. TRAPA. *Calyx* quadripartite. *Nut* unilocular, monospermous. *Obs.* 5336.

90. CORNUS. *Calyx* quadridentate. *Drupe. Nut* bilocular. *Obs.* 3898.

95. SANTALUM. *Petals* inserted into the calyx. *Berry* monospermous. *L.*

9. *Petals* 4, *superior. Calyx inferior.*

89. ALLASIA. *Berry* unilocular, polyspermous. *From Lour.*

10. *Flowers corolline, inferior.*

98. POTHOS. *Petals* 4. *Calyx* none. *Berry* bilocular. *From L.*

99. KRAMERIA. *Petals* 4. *Calyx* none. *Berry* monospermous, dry, echinate. *From L.*

11. *Flowers calycine, inferior.*

102. PARIETARIA. *Calyx* quadrifid. *Seed* 1. *Obs.* 7487.

103. ALCHEMILLA. *Calyx* octofid.

101. CAMPHOROSMA. *Calyx* tetraphyllous. *Obs.* 4286.

Order

Order 2.

DIGYNIA.

105. CUSCUTA.	*Petal* 1. *Capsule* bilocular. *Obs.* 4389.
106. HYPECOUM.	*Petals* 4. *Calyx* diphyllous. *Siliqua.*
104. HAMAMELIS.	*Petals* 4. *Nectaria* 4. *Calyx* tetraphyllous. *Nut* bilocular.

Order 3.

TETRAGYNIA.

107. ILEX.	*Corolla* monopetalous. *Calyx* quadridentate. *Berry* tetraspermous. *L.*
108. MYGINDA.	*Corolla* tetrapetalous. *Calyx* quadripartite. *Drupe* monospermous. *L.*

MONOGYNIA.

72. GLOBULARIA.

Calyx inferior, quinquefid. *Corolla* inferior, infundibuliform, quinquefid. *Seed* 1, naked. *Obs.* 8667,

from a specimen of *G. vulgaris*, gathered in Fothergill's garden. The account of the seed from *L.* and *Juss.* 97, who describes the corolla of *G. Alypum* as ligulate and tridentate.

1. GLOBULARIA *Alypum*. Stem shrubby. Leaves lanceolate, tridentate, and margin entire. Heads terminal. *Hort. kew.* i. 131. *L. sp.* 139. *Sibth. prodr. n.* 269. In Greece and the islands of the Archipelago.

G. fruticosa, myrti folio tridentato. *Garid.* 210. *t.* 42.

Thymelaea foliis acutis, capitulo succisae, sive Alypum monspeliensium. *Magn. monsp.* 253.

Alypum montis ceti, sive Herba terribilis narbonensium. *Raii hist.* 1443; *europ.* 60.

Alypum montis ceti narbonensium. *Lob. adv.* 158, *repr. in ic.* i. 370, *& cop. in*

Alypum monspeliensium, sive Herba terribilis. *Park. theatr.* 199.

Hippoglosum valentinianum. *Clus. hisp.* 180, *repr. in hist.* i. 90, *and cop. in Park. theatr.* 199, *and repr. in*

Alypum montis ceti. *Ger. by Johns.* 506.

Alypum monspelianum, sive Frutex terribilis. *Bauh. J.* i. *a.* 598.

Empetrum phacoides. *Dalech.* 1671, *repr. in*

Alypum Penae. *Dalech.* 1680.

(Alypum. *Matth.* 1280, *cop. in Dalech.* 1680, *and abr. in Cam. epit.* 985, *which cop. in*

Alypum Matthioli, tithymalis affine. *Bauh. J.* iii. 676, is a different plant.)

ALYPUM. Dale 287.

73. DIPSACUS.

Calyx superior; obsolete. *Corolla* tubular, quadrifid. *Seed* columnar, crowned by the calyx. *From L. and Juss.*

1. DIPSACUS *fullonum*. Leaves connate; oblong; obtuse. Paleae recurvate. *Obs.* 8023. Specimen of a leaf from an old herbal.—*Obs.* 5333. Specimen of a head from Dr. Boehmer.—*Roth germ.* ii. 161. *L. a Willd.* i. 543. *Bot. arrang.* 137, where it ought not to have been inserted as no one has ever observed it growing wild in Britain.—*Smith brit.* 168. *L. sp.* 140 β *Mill. Ph. dict. n.* 2. *Krock.* i. *n.* 200. α who says it is cultivated and also found growing spontaneously in Silesia.—*Gouan. hort.* 60 β; *monsp.* 72 β *Huds.* 61 β

D. albus. *Fuchs.* 223. *c.* 82; *cop. in*

D. sativus. *Bauh. J.* iii. *a.* 73. *Boerh.* i. 133. *Magn. hort.* 70. *Raii hist.* 382; *syn.* 192; *cat.* 94; in which two latter works it is enumerated as being cultivated in fields.—*Dod.* 723, *repr. in Ger. by Johns.* 1167, *cop. in Park. theatr.* 984, with a separate ripe head; *and repr. in*

Carduus fullonum, sive Dipsacus sativus. *Lob. ic.* ii. 17.

D. seu Labrum veneris. *Dalech.* 1447.

D. sativus alter. *Dalech.* 1447.

Labrum veneris. *Cam. epit.* 431.

Carduus fullonum. *Trag.* 847, *repr. in*

D. sylvestris. *Cord. fol.* 105. *p.* 2. The paleae not sufficiently recurvate.

Native of Saxony and Silesia according to Leyser

and Krocker, but probably only naturalised, and possibly only the refuse of fields or gardens.

DIPSACUS sativus. *Chom.* 423; *suppl.* 132. *Dale* 102. *Mill. Jos.* 179. *Rutty* 168.

Dipsacus. *Geoffr.* iii. 405.

2. DIPSACUS *sylvestris.* Leaves connate, acute. The uppermost paleae straight. *Obs.* 5334. Specimen gathered near Worcester.—*Mill. Ph. dict. n.* 1. *Bot. arrang.* 137. *Smith brit.* 168; *eng. t.* 1032. *Host* 68. *Pollich n.* 137. *Krock.* i. *n.* 200. *Scop. carn. n.* 141. *Jacq. ap. L. a Murr.* 143; *austr.* v. *t.* 402. *Curt. lond.* iii. 9. *t.* 202. *Sibth. prodr. n.* 271. *Roth germ.* ii. 160. *Dod.* 723, *repr. in Ger. by Johns.* 1167, *cop. in Park. theatr.* 984, *and repr. in*

Labrum veneris. *Lob. ic.* ii. 18.

D. purpureus. *Fuchs.* 223. *c.* 82, *cop. in*

D. silvestris major. *Dalech.* 1448, *and*

D. sylvestris, sive Labrum veneris. *Bauh. J.* iii. 74. *Raii syn.* 192. *Magn. monsp.* 86.

D. fullonum. *Lightf.* 113. Near Dumfermling in Fifeshire.

D. sylvestris, aut Virga pastoris major. *Tourn. paris.* 266. *Vaill. paris.* 47. *Boerh.* i. 133.

Labrum veneris alterum. *Cam. epit.* 432.

Native of Europe from Smyrna to Denmark, and of Britain as far north as Fifeshire. I have never observed it except on limestone or marle or in vallies in the vicinity of limestone.

DIPSACUS sylvestris. *Dale* 102. *Mill. Jos.* 179. *Rutty* 168.

3. DIPSACUS *pilosus.* Leaves on petioles. *Obs.* 535. Near Powick, Worcestershire.—*L. sp.* 141.

Curt. lond. i 10. *t. Bot. arrang.* 138. *Smith brit.* 169; *engl. t.* 877. *Jacq. austr.* iii. *t.* 248.

D. sylvestris capitulo minori, vel Virga pastoris minor. *Boerh.* i. 133. *Vaill. paris.* 47.

D. minor, sive Virga pastoris. *Raii hist.* 382; *syn.* 192. *Ger. by Johns.* 1168, *repr. from*

D. tertius. *Dod.* 723, *which repr. in*

Virga pastoris. *Lob. ic.* ii. 18. *Park. theatr.* 984. *Cam. epit.* 433.

D. silvestris minor, seu Virga pastoris. *Dalech.* 1448.

Virga pastoris vulgaris. *Bauh. J.* iii. *a.* 75.

Native of Germany, the north of France, and Britain.

VIRGA PASTORIS. Dale 102.

74. SCABIOSA.

Calyx inferior. *Corolla* tubular. *Seed* pappose. *Obs.* 4973. *L.*

1. *Corolla quadrifid.* L.

1. SCABIOSA *Succisa.* Corollae equal. Inner calyx quinquepartite. Leaves lanceolate. Stem simple. *Obs.* 5002. In moist meadows.—*L. suec. n.* 119; *sp.* 142. *Bot. arrang.* 139. *Curt. lond.* iii. 10. *t.* 189. *Smith brit.* 170; *engl. t.* 878, corolla coloured of a sky blue.—*Fl. dan. t.* 279.

S. radice succisa, flore globoso. *Raii syn.* 191.

Morsus diaboli. *Dalech.* 1067. *Trag.* 246, *cop. from*

Succisa. *Fuchs.* 678, *which cop. in*

Succisa, sive Morsus diaboli. *Bauh. J.* iii. *a.* 11. *Raii hist.* 380. *Dod.* 124, *repr. in*

Morsus diaboli. *Lob. ic.* i. 546, *& cop. in*
Morsus diaboli vulgaris. *Park. theatr.* 492.
S. folio integro hirsuto. *Tourn. paris.* 141. *Vaill. paris.* 177.
Leaves more or less hirsute. *Obs.* 5002.
α *caerulea.* Corolla blue. *Obs.* 5002.
S. integrifolia glabra, radice praemorsa. *Boerh.* i. 129.
SUCCISA. Alst. ii. 220. *Rutty* 504. *Vog.* 228.
S. Succisa. *Krock. n.* 203. *Withering in bot. arrang.* 140.
Succisa hirsuta. *Chom.* 277.
Morsus diaboli. *Berg.* 59. *Dale* 102. *Geoffr. suite* ii. 402. *Linn.* 53. *Mill. Jos.* 298. *Murr.* i. 179. *Spielm.* 394.
β *carnea.* Corolla fleshcoloured. *Obs.* 5003. Specimen gathered near Worcester.
S. folio integro, glabro, flore incarnato. *Vaill. paris.* 178. *Boerh.* i. 129.
γ *alba.* Corolla white. *Obs.* 5004. Specimen gathered by Mr. Hollefear in Worcestershire.
S. folio integro, glabro, flore albo. *Vaill. paris.* 178.
S. folio integro, flore albo. *Boerh.* i. 129.
δ *serrata.* Leaves serrate. *Obs.* 5005. Specimen gathered by Mr. Hollefear in Worcestershire.
S. foliis imis integris, caulescentibus incisis. *Vaill. paris.* 178.

2. SCABIOSA *arvensis.* Corollae radiate. Leaves pinnatifid and cut. Stem hispid. Receptacle setaceous. *Obs.* 4973. On the borders of fields.—*L. suec. n.* 117; *sp.* 143. *Curt. lond.* iv. 13. *t.* 288. *Smith brit.* 170; *engl. t.* 659. *Bot. arrang.* 140. *Krock. n.* 205. *Fl. dan. t.* 447, radiate flowers too small.

S. major communior folio laciniato. *Raii syn.* 191.

S. pratensis hirsuta, quae officinarum. *Tourn. paris.* 139. *Vaill. paris.* 176.

S. vulgaris major. *Dod.* 122, *repr. in*

S. major satorum, vulgatior. *Lob. ic.* i. 536, *&*

S. major vulgaris. *Ger. by Johns.* 719.

Scabiosa. *Fuchs.* 680. *c.* 273, *cop. in Trag.* 242, *& in*

S. major communior hirsuta folio laciniato. *Bauh. J.* iii. *a.* 2.

S. alter campestris, sive segetum et satorum. *Lob. ic.* i. 537, *repr. in*

S. campestris, sive segetum. *Ger. by Johns.* 720, is possibly the variety mentioned by Vaillant with all the florets regular.

Calyx of the fruit rigid, hard, tetragonous, compressed, obsoletely quadridentate at the end. *Pappus* multipartite; segments subulate, 9 to 11, intermixed with hairs. *Obs.* 4973.

SCABIOSA. Alst. ii. 220. *Berg.* 60. *Dale* 101. *Geoffr. suite* ii. 398. *Lew. disp. by Dunc.* 347. *Linn.* 53. *Mill. Jos.* 399. *Monro* iii. 251. *Murr.* i. 177. *Ploucq. bibl.* i. 576. *Rutty* 468. *Spielm.* 394. *Vog.* 81.

S. pratensis hirsuta, quae officinarum. *Chom.* 276; *suppl.* 89.

β *purpurascens.* Corolla pale reddish purple. Near Chesterfield in gritstone.

γ *alba.* Corolla white. *Obs.* 4975. Between Baslow and Curbar, Derbyshire.

δ *integrifolia.* Leaves entire. *Obs.* 7669. Specimen gathered by Mr. Hollefear in Worcestershire.

S. major communior, folio non laciniato. *Vaill. paris.* 177.

ε *inaequalis*. Inner florets of the same shape and length as the outer. *From*

S. vulgaris flore pleno. *R. cat. ed.* i. 277. About Teversham, Balsham, and elsewhere in Cambridgeshire.

2. *Corolla quinquefid.* L.

3. SCABIOSA *cochinchinensis*. Leaves undivided, lanceolate, undulate. Stem nearly naked. Pappus pilose. *Lour.* i. 85.

75. HEDYOTIS.

Calyx superior, tetraphyllous, permanent. *Corolla* infundibuliform; limb quadrifid. *Capsule* bilocular, polyspermous, opening transversely. *Obs.* 8453. 8454. *L.*

1. HEDYOTIS *Auricularia*. Leaves lanceolato-ovate. Flowers verticillate. *L. sp.* 147.

Valerianella palustris, foliis nervosis oblongis, flosculis ad caulium nodos inter foliorum sinus collectis. *Burm. J. zeyl.* 227. *t.* 108. *f.* 1.

Muriguti. *Rheede* x. 63. *t.* 32.

AURICULARIA. Linn. 53.

2. HEDYOTIS *herbacea*. Leaves lineari-lanceolate. Stem herbaceous, dichotomous. Peduncles in pairs. *L. sp.* 147.

PARPADAGAM. Rheede x. 69. *t.* 35.

3. HEDYOTIS *tinctoria*. Leaves lanceolato-linear, opposite, in threes and fours. Flowers subumbellate. Umbels terminal, leafy. *From Roxb. fig.*

Oldenlandia umbellata. *L. sp.* 174.

Lysimachiae affinis, saturejae folio, maderaspatensis, capsulis in summitate fere umbellatis. *Pluk. alm.* 236; *phyt. t.* 119. *f.* 4.

OLDENLANDIA umbellata. *Roxb. corom.* i. 1. *t.* 3, from a cultivated plant.

76. SPERMACOCE.

Corolla monopetalous, infundibuliform. *Seeds* 2, bidentate. *L.*

1. SPERMACOCE *scabra.* Leaves roundish, hispido-scabrous. Stem hispido-scabrous. Flowers verticillate. Stamina projecting. *L. a Willd.* i. 572?

TARDAVEL. Rheede ix. 149. *t.* 76. Leaves oblongo-elliptic and elliptic.

77. ASPERULA.

Corolla infundibuliform. *Fruit* dicoccous. *Obs.* 1187. *L.*

Not essentially distinct from *Galium.* See the observation from Wiggers in *Bot. arrang.* 158.

1. ASPERULA *cynanchica.* Leaves in fours, in the upper whorls two of the leaves minute. Stem ascending. *Obs.* 4428. In Surry, on chalk.—*L. sp.* 151. *Bot. arrang.* 159. *Smith engl. bot. t.* 33, corresponding with all my specimens of English growth whether indigenous or cultivated;—*brit.* 172.

Asperula. *Allioni nic.* 7.

Rubeola vulgaris quadrifolia laevis; floribus purpurascentibus. *Tourn. paris.* 137. *Vaill. paris.* 174. *Dill. ap. Raii syn.* 225.

Galium montanum latifolium cruciatum. *Col. ecphr.* i. 296.

Galium tetraphyllon montanum cruciatum. *Col. ecphr.* i. *t.* 297, corresponding with specimens from the Paris and Vienna gardens.

Rubia cynanchica. *Bauh. J.* iii. *b.* 723. *Raii syn. ed.* ii. 118. *Magn. monsp.* 225.

Synanchica. *Dalech.* 1185. *Goodyer. in Ger. by Johns.* 1120. No fig.

Corolla in dried specimens scabrous as Dr. Smith remarks, when moistened nearly glabrous. *Obs.* 4428.

RUBIA synanchica. *Dale* 134.

Rubeola. *Geoffr. suite* ii. 273.

2. ASPERULA *odorata.* Leaves in eights, lanceolate. Panicles pedunculate. *Obs.* 1187. In woods.—*L. suec. n.* 121; *sp.* 150. *Curt. lond.* iv. 15. *t.* 249. *Bot. arrang.* 158. *Smith brit.* 172; *engl. t.* 755. *Krock. n.* 211. *Fl. dan. t.* 562.

Asperula. *Raii hist.* 483; *syn.* 224. *Ger. by Johns.* 1124, *repr. from*

A. aut Aspergula odora nostras. *Lob. ic.* i. 801, *which cop. in*

A. aut Aspergula odorata. *Park. theatr.* 563, *and repr. in*

A. odorata, flore albo. *Dod.* 352. *Boerh.* i. 149.

Aparine latifolia humilior montana. *Tourn. paris.* 389. *Vaill. paris.* 14.

Matrisylva. *Trag.* 496.

Rubiis accedens, Asperula quibusdam, sive Hepatica stellaris. *Bauh. J.* iii. 718.

A. Dodonaei. *Dalech.* 870.

ASPERULA. Dale 134. *Mill. Jos.* 60. *Spielm.* 382.

Matrisylva. *Berg.* 61. *Linn.* 54. *Murr.* i. 374. *Vog.* 132.

Hepatica stellata. *Chom.* 501.

78. GALIUM.

Corolla rotate, or campanulate. *Fruit* dicoccous. *Obs.* 5027. *L.*

1. *Fruit glabrous.* L.

1. GALIUM *Cruciata.* Leaves in fours, ovato-lanceolate, villose. Stems simple, hirsute. Racemi lateral, with 2 or 3 leaves. *Obs.* 4358. Under hedges.—*Bot. arrang.* 149. *Scop. carn. n.* 145.

G. cruciatum. *Smith engl. t.* 143; *brit.* 173.

Valantia Cruciata. *L. sp.* 1491. *Walc. t. Bot. arrang.* 1139. *Gort. belg. foed. n.* 830.

Cruciata hirsuta. *Tourn. paris.* 73. 191. 426. *Vaill. paris.* 43.

Cruciata. *Raii syn.* 223; *hist.* 479. *Dod.* 353, *repr. in Ger. by Johns.* 1123, &

Cruciata minor. *Lob. ic.* i. 804, & *cop. in*

Cruciata vulgaris. *Park. theatr.* 566.

Gallium latifolium, Cruciata quibusdam flore luteo. *Bauh. J.* iii. 717.

Rubia quadrifolia glabra angustifolia. *Bauh. J.* iii. 717, the inner figure. (The outer figure, name, and description belong to a different species.)

Calyx a circle of green globules round the base of the corolla. *Corolla* flat, quadripartite, yellow; tube none. *Styles* 2, erect, as short again as the germen. *Germen* very frequently none. *Obs.* 4358.

Native of France, Switzerland, Germany, Holland, and Britain.

CRUCIATA. Dale 132. *Geoffr.* iii. 371. *Mill. Jos.* 160.

Cruciata hirsuta. *Chom.* 595.

2. GALIUM *tinctorium.* Leaves linear; cauline leaves in sixes; those of the branches in fours. Stem flaccid. Peduncles with mostly 2 flowers. *L. sp.* 153.

GALIUM tinctorium. *Schoepf n.* 27.

3. GALIUM *verum.* Leaves in eights, linear, mucronate, revolute at the margin. Flowering branches short. *Obs.* 507. Near Worcester, on marle.—*L. sp.* 155. *Bot. arrang.* 155. *Curt. lond.* vi. *t.* 13. *Smith brit.* 178; *engl. t.* 660.

Gallium. *Fuchs.* 196. *c.* 72, *abr. in Trag.* 492, *and cop. in*

Gallion verum. *Bauh. J.* iii. 720.

Gallium. *Dod.* 351, *repr. in*

Gallium luteum. *Lob. ic.* i. 804, *& Ger. by Johns.* 1126, *and cop. in Park. theatr.* 564. *R. syn.* 224. *Tourn. paris.* 197. *Vaill. paris.* 78. *Boerh.* i. 148. In Holland.

GALIUM luteum. *Berg.* 62. *Geoffr.* iii. 514. *Linn.* 54. *Murr.* i. 371. *Vog.* 101.

Gallium luteum. *Chom.* 365; *suppl.* 113. *Mill. Jos.* 208.

Gallium. *Dale* 133. *Lew.* i. 455. *Rutty* 215.

G. verum. *Krock. n.* 221. *Woodv.* iv. 149.

4. GALIUM *Mollugo*. Leaves in eights, lanceolato-obovate, mucronate, microscopically aculeate at the margin, deflex. Stem square, glabrous. Branches patent. *Obs.* 5027. Near Chesterfield. —*L. sp.* 155. *Bot. arrang.* 155. *Smith brit.* 178. *Fl. dan. t.* 455.

Gallium album, vulgare. *Tourn. paris.* 335. *Vaill. paris.* 77.

Mollugo vulgatior. *Raii syn.* 223.

Mollugo. *Dod.* 351, *repr. in*

Mollugo belgarum, Mollugo montana Dodonaei. *Lob. ic.* i. 802, &

Gallium, sive Mollugo montana. *Ger. by Johns.* 1127, as evident from the crowded flowers and the number of the floral leaves.

Mollugo vulgatior herbariorum, Galion album quorundam. *Lob. ic.* i. 802, *repr. in*

Gallium album. *Ger. by Johns.* 1126, having leaves in sixes may have been intended for some other species.

Rubia silvestris. *Dalech.* 1329. *Lob. ic.* i. 798, *repr. in Ger. by Johns.* 1118, having leaves in sixes and fives may have been intended for some other species.

Rubia sylvestris. *Fuchs. c.* 108. 281, *cop. in*

Rubia angulosa aspera. *Bauh. J.* iii. 715.

Stem erect, weak, 3 feet and upwards long, glabrous above, slightly hirsute below; sides depressed; angles rounded; joints swoln; branched; branches patent, horizontal, and deflex. *Leaves* glabrous above, underneath sometimes slightly hirsute; those of the stem in eights, patent; those of the flowering branches in sixes; those of the last ramifications of the panicle in twos. *Flowers* numerous, crowded. *Peduncles* 2 and often 3 together. *Corolla* straw-

coloured white. *Antherae* yellow, when out of flower brown. *Fruit* glabrous. *Obs.* 505. Near Worcester, on marle.—*Corolla* rotate; segments cuspidate. *Germen* glabrous. *Obs.* 5027.—*Fruit* when immature becoming rugose in drying without any projecting points. *Obs.* 7859.

MOLLUGO. Dale 133.

Gallium album. *Geoffr.* iii. 516.

Gallium album vulgare. *Chom.* 365.

2. *Fruit scabrous.*

5. GALIUM *tuberosum.* Leaves in fives, lanceolate. Peduncles axillary, crowded. *Lour.* i. 99.

3. *Fruit hispid.* L.

6. GALIUM *Aparine.* Leaves in eights, lanceolate; the carina scabrous with prickles pointing backwards. Knots of the stem villose. *L. a Murr.* 151; *sp.* 157; *succ. n.* 128. *Curt. lond.* ii. 9. *t. Walc. t. Bot. arrang.* 157. *Woodv.* iv. 148. *t.* 269. *Smith brit.* 180; *engl. t.* 816. *Fl. dan. t.* 495.

Aparine vulgaris. *Tourn. paris.* 246. *Vaill. paris.* 14. *t.* 4. *f.* 1. *b.* *Boerh.* i. 150. *Park. theatr.* 567, *cop. from*

Aparine. *Dod.* 350, *which repr. in Lob. ic.* i. 800, *and Ger. by Johns.* 1122. *Dalech.* 1331. *Raii hist.* 484; *syn.* 225. *Fuchs.* 50. *c.* 14, *cop. in Bauh. J.* iii. 713, *and abr. in*

Aparina. *Trag.* 494.

APARINE. Boerh. 213. *Cull.* ii. 36. *Dale* 133. *Geoffr.* iii. 102. *Lew.* i. 112. *Mill. Jos.* 43. *Rutty* 32. *Vog.* 93.

Aparine vulgaris. *Chom.* 244; *suppl.* 82.
Clivers. *Denm.* i. 176.

79. CRUCIANELLA.

Corolla superior, monopetalous, infundibuliform; segments caudate at the end. *Calyx* none or an obsolete margin. *Seeds* 2, linear. *Obs.* 8646. *L.*

CRUCIANELLA *angustifolia.* Stem erect. Leaves in sixes, linear. Flowers spicate. *L. sp.* 157?
CRUCIANELLA angustifolia. *Lour.* i. 100, who describes the stem as simple and terete, whereas in Linnaeus's plant it is branched and tetragonous.

80. RUBIA.

Corolla monopetalous, campanulate. *Berries* 2, monospermous. *L.*

RUBIA *tinctoria.* Stem prickly. Leaves annual, lanceolate; prickles of the anterior part of the leaves incurvate. *Obs.* 8024. Specimen gathered in a garden.

R. tinctorum. *L. a Murr.* 152; *sp.* 158; *mant.* 330. *Hort. kew.* i. 146. *Raii hist.* 480; *syn.* 223. Cultivated in fields.—*Mill. Ph. dict. n.* 1. *t. Gouan. hort.* 69 β *Woodv.* ii. 190. *t.* 68. *Scop. carn. n.* 160. About Trieste and the isle of Veglia.—*Host.* 76. In Littorali, near the sea. —*Sibth. prodr. n.* 340. In the Grecian islands and Asia Minor.—*Roth germ.* ii. 177. *Honck. n.* 538. *Ger. by Johns.* 1118, *repr. from*

R. major. *Lob. obs.* 463, *which repr. in ic.* i. 798, *Clus. hist.* ii. 77; *cop. in Theophr. a Stap.* 1114, Garance. *Pomet* i. 85, &

R. major sativa. *Park. theatr.* 274; & *repr. in* Rubia. *Dod.* 349. *Trag.* 498, *cop. from*

R. sativa. *Fuchs.* 281. *c.* 108. *Bauh. J.* iii. *b.* 715. No figure.—*Dalech.* 1329.

R. foliis senis. *Guett.* ii. 54. *a.* Near Estampes.—*Royen* 254. *L. ups.* 28.

R. tinctorum sativa. *Vaill. paris.* 174. *Magn. monsp.* 224. In the hedges of gardens and fields near Montpelier;—*hort.* 174. *Boerh.* i. 147.

Native of Asia Minor, the Grecian islands, Italy, France, and the neighbourhood of Spire in Germany.

RUBIA. Root. *Pharm. lond.*—*Alst.* i. 376. *Boerh.* 209. *Chom.* i. 222. *Copland in med. journ.* xi. 230. *Cull.* ii. 38. 553. *Dale* 132. *Geoffr. suite* ii. 275. *Herm.* 93. *Hill* 597. *Lew.* ii. 282. *Monro* iii. 238. *Rutty* 436. *Spielm.* 569. *Tourn.* i. 378.

R. tinctorum. Root. *Pharm. edin.*—*Aitken midw.* 131. *Berg.* 64. *Cartheus.* iv. 89. *Home, F. clin.* 388. *Linn.* 55. *Mill. Jos.* 378. *Murr.* i. 363; *J.* i. 289. *Pearson, R.* i. 295. *Reece, account from in phys. journ.* viii. 568. *Vog.* 222.

R. tinctorum sativa. *Chom.* 222; *suppl.* 71.

Madder. *Denm.* i. 167. *Lew. in Neum.* ii. 164.

Ερυθροδανον. *Diosc. l.* 3. *c.* 160.

RUBIA sylvestris. *Dale* 133.

81. IXORA.

Corolla superior, hypocrateriform, or infundibuliform. *Calyx* superior, quadridentate. *Stamina* inserted at the commissures of the corolla. *Stigma*

bifid. *Berry* bilocular; cells monospermous. *Obs.* 6822. The account of the fruit from *Gaertn.* i. 117. *t.* 25. *L.*

1. IXORA *coccinea.* Leaves elliptic. Corymbi terminal. Segments of the corolla lanceolate, distinct. *From L. sp.* 159. *(Curt. mag. t.* 169. *and Hort. kew.* i. 148, are I. obtusiflora.)

I. foliis ovalibus semiamplexicaulibus. *L. zeyl.* 22.

Jasminum flore tetrapetalo. *Burm. J. zeyl.* 125. *t.* 57.

Schetti. *Rheede* ii. 17. *t.* 13.

Bandhuca. *Jones in asiat. research.* iv. 253.

Jasminum indicum, lauri folio, inodorum, umbellatum, floribus coccineis. *Pluk. alm.* 196. *t.* 59. *f.* 2.

Arbor indica, lauri amplioribus foliis obtusis, regione binis, floribus jasmini summo ramulo umbellatum positis. *Pluk. mant.* 20; *phyt. t.* 364. *f.* 2, the fig. marked *fol.* 20. *pl.* 2, (misengraved 1.) Laciniae of the corolla distinct.

FLAMMA SYLVARUM. Rumph. iv. 105. *t.* 46.

2. IXORA *alba.* Leaves lanceolato-ovate. Flowers fasciculate. *L. sp.* 160. *Mill. Ph. dict. n.* 2. Flowers scentless.

Jasminum indicum, lauri folio, inodorum, umbellatum, floribus albicantibus. *Pluk. alm.* 196; *phyt. t.* 109. *f.* 2. Flowers fasciculate.

BEMSCHETTI. Rheede ii. 19. *t.* 14, (misengraved 13) Panicles with few branches, and the branches with few flowers.

82. PAVETTA.

Corolla superior, monopetalous, infundibuliform. *Calyx* superior, quinquedentate. *Stigma* simple. *Berry* bilocular; cells monospermous. *Obs.* 8459. The account of the fruit from *Gaertn.* i. 116. *t.* 25. *L.*

1. PAVETTA *indica.* Leaves oblong, acuminate at each end. Umbels terminal, fasciculate. Calyx short, acute, *L. fil. suppl.* 121. *L. a Willd.* i. 610. *L. sp.* 160, where the stigma is described as bifid.—*Burm. Laur. ind.* 35. *t.* 13. *f.* 3.

P. alba. *Vahl. symb.* iii. 11, (where at p. 12. *l.* 1, for alba read indica.)

Pavetta. *L. amoen.* i. 114, where the stigma is described as simple;—*zeyl. n.* 56.

Pavate. *Acosta ap. Clus. exot.* 266. No fig.—*Raii hist.* 1581. *Dalech.* 1863, *cop. in Park. theatr.* 1663, &

Pavate arbor foliis mali aureae. *Bauh. J.* ii. 103.

(Arbor maderaspatensium Pavette. *Pluk. phyt. t.* 147, *f.* 1, has alternate leaves.)

PAVETTA, seu Malleamothe. *Rheede* v. 19. *t.* 10. Stigma represented as simple.

83. MITCHELLA.

Calyces 2 to 1 germen, quadridentate. *Corollae* 2 to 1 germen, superior, monopetalous. *Stigmata* 4. *Berry* tetraspermous, bifid. *Obs.* 3273. *L.*

Belongs to the order *Rubiaceæ* of Juss. 196. I would arrange it between division the second and

third. *Fruit dicoccous, with 4 seeds.* It forms the connecting link between the *Stellatæ* division 1 and 2, and the rest of the order, and bears the same relation to *Psychotria* and *Coffea* as *Xylosteum* to *Lonicera*.

1. MITCHELLA *repens. L. sp.* 161. *Hort. kew.* i. 148. *Cutl. in amer. acad.* i. 410. *Obs.* 3273. Specimen gathered by Dr. Cutler in New England.

Mitchella. *Gron. virg.* 18.

Syringa baccifera, myrti subrotundis foliis, floribus albis gemellis. *Pluk. amalth.* 198. *t.* 444. *f.* 2. *Catesb.* i. 20. *t.* 20.

Baccifera mariana, clematis daphnoides minori folio. *Pet. gaz.* 1. *t.* 1. *f.* 13.

MITCHELLA repens. *Bart.* 49.

Partridge berries. *Mather in phil. trans. abr. by Jones* v. *part* ii. 160; *and by Hutton* vi. 86.

84. CALLICARPA.

Calyx and *Corolla* quadrifid. *Berry* with 4 seeds. *L.*

1. CALLICARPA *viburnifolia.* Leaves crenato-serrate, ovali-elliptic, villoso-tomentose underneath. Panicles axillary, compact. *Obs.* 8028. Specimen gathered in the garden of Fothergill, without fructifications.—*Salisb. R. allert.* 53.

C. americana. *L. sp.* 161; *a Murr.* 153, the name. (The specific character and reference to mant. 198, misprinted 128, belongs to C. cana.)—*L. a Reich.* i. 313, the name and synonyms. (The specific character, place of growth, and description, belong

to C. cana.)—*L. a Willd.* i. 619. The name, synonyms, place of growth, and the mark that he had seen the plant alive. (The specific character and description belong to C. cana.)—*Hort. kew.* i. 148. (The specific character belongs to C. cana.)—*Marsh.* 22. *Walt. carol.* 84. *Michaux* i. 95.

Johnsonia americana. *Dale of Carolina in Mill. Ph. dict.*

Callicarpa. *Gron. virg.* 19.

Anonymos baccifera verticillata, folio molli et incano ex america. *Pluk. alm.* 33. *t.* 136. *f.* 3.

Frutex baccifer verticillatus, foliis scabris latis dentatis et conjugatis. *Catesb.* ii. 47. *t.* 47.

CALLICARPA. Schoepf 13.

2. CALLICARPA *cana.* Leaves ovate, denticulate, semidecurrent down the petioles, villose and hoary underneath. Panicles axillary, dichotomous. *From Vahl. symb.* iii. 12, *L. mant.* 198, & *Retz. obs.* v. 1.

C. americana. *L. a Murr.* 153, the specific character and reference.—*Lour.* i. 88.

C. americanae simillima ex india orientali. *L. nat.* ii. 120.

MASHANDARI. Jones in asiat. research. iv. 255. *n.* 15.

85. PLANTAGO.

Calyx quadrifid. *Corolla* quadrifid; limb bent back. *Stamina* very long. *Capsule* bilocular, cut round. *L.*

1. *With a scapus.*

1. PLANTAGO *major*. Leaves ovato-oval, nearly glabrous. Scapus terete. Several seeds in each cell. *Obs*. 8030. Specimen gathered on the sides of paths.—*L. suec. n.* 129; *sp.* 163. *Bot. arrang.* 142. *Curt. lond.* ii. 11. *t. Scop. carn. n.* 161. *Smith brit.* 182. *Woodv.* i. 39. *t.* 14. *Lour.* i. 90. *Fl. dan. t.* 461. *Fuchs.* 38, *cop. in*

P. major, folio glabro non laciniato ut plurimum. *Bauh. J.* iii. *b.* 502.

P. latifolia. *Curt. mat. med. t.* 4. *Ger. by Johns.* 419, *repr. in*

P. vulgaris latifolia. *Lob. obs.* 162, *cop. in Dalech.* 1254, *repr. in*

Arnoglossa. *Lob. ic.* i. 303, *&*

P. major. *Dod.* 107, *which cop. in*

P. maxima. *Park. theatr.* 493, *&*

P. latifolia vulgaris. *Park. theatr.* 493. *Raii hist.* 878; *syn.* 314.

P. scapo spicato, foliis ovatis. *L. lapp. n.* 62. (The variety of the height of a man is probably P. maxima.)

P. foliis ovatis. *Gron. virg.* 19.

Plantago. *Browne* 145. In most parts of Jamaica, especially in the mountains.

P. latifolia sinuata. *Tourn. paris.* 222. *Vaill. paris.* 160.

P. rubea. *Brunsf.* i. 25, *cop. in Trag.* 225.

Native of Europe from Italy to Lapland, and of Virginia and Jamaica.

PLANTAGO latifolia. *Berg.* 69. *Herm.* 416. *Linn.* 55. *Mill. Jos.* 351. *Murr.* i. 190. *Rutty* 398. *Schoepf* 13.

P. major. *Geoffr. suite* ii. 11. *Krock. n.* 231. *Spielm.* 389.

P. vulgaris. *Dale* 214.

Plantago. *Alst.* ii. 199. *Lew.* ii. 231; *disp. by Dunc.* 219. *Vog.* 75. 179. 242.

P. latifolia sinuata. *Chom.* 583; *suppl.* 165.

Plantain. *Blizard, account from in med. rev.* i. 331. *Lind hot clim.* 313. *Ware ophth.* 178.

Plantane. *Graing.* 84. *Percival* ii. 377, *and in Mease* 164.

2. PLANTAGO *incana.* Leaves pubescent, elliptic, and ovali-elliptic. Spike cylindric. Scapus terete. One and 2 seeds in each cell. *Obs.* 504. Near Worcester, on marle.

P. media. *L. suec. n.* 130; *sp.* 163. *Bot. arrang.* 143. *Curt. lond.* iv. 14. *t.* 252. *Walc. t. Smith brit.* 183. *Pollich n.* 160. *Scop. carn. n.* 162. *Fl. dan. t.* 581.

P. latifolia incana. *Tourn. paris.* 223. *Vaill. paris.* 160. *Boerh.* ii. 100.

Calyx quadripartite. *Corolla* infundibuliform; segments patent and horizontal. *Obs.* 504.

Native of Europe on calcareous soils as Hudson observes, rarely on gritstone. Linnæus says on clay and Ray on gravel.

PLANTAGO media. *Geoffr. suite* ii. 14. *Spielm.* 389.

P. incana. *Dale* 214.

Plantago. *Pharm. austriaco-prov.* 57. *Lew. disp. by Dunc.* 345.

P. latifolia incana. *Chom.* 583.

α *ovalifolia.* Leaves ovali-elliptic. *Obs.* 504.

P. incana. *Raii hist.* 877. *Ger. by Johns.* 419, *repr. from*

P. media. *Dod.* 107, *which cop. in*
P. major hirsuta, media a nonnullis cognominata. *Bauh. J.* iii. *b.* 504, the lower fig.—*repr. in*
P. major incana. *Lob. ic.* i. 304, and one of the spikes *cop. in Park. theatr.* 493. *Raii syn.* 314.
P. major. *Dalech.* 1254. *Brunsf.* i. 22, *cop. in*
P. latifolia. *Trag.* 226.
β *ellipticifolia.* (Variation.) Leaves elliptic. *Obs.* 8029. Specimen from Withering.
P. minor. *Fuchs.* 38. *c.* 11, *cop. in*
Cynoglossum quorundam. *Dalech.* 1261, *&*
P. major hirsuta, media a nonnullis cognominata. *Bauh. J.* iii. 504, the upper fig.

3. PLANTAGO *lanceolata.* Leaves lanceolate. Spike at first elliptico-ovate, at length cylindric. Keel of the phylla ciliate at the end. Scapus angular. *Obs.* 99. In a field.—*L. suec. n.* 131; *sp.* 164. *Curt. lond.* ii. 10. *t. Walc. t. Bot. arrang.* 143. *Fl. dan. t.* 437. *Smith brit.* 184; *engl. t.* 507. *Fuchs.* 39. *c.* 11, *cop. in Bauh. J.* iii. 505, *&*
P. minor Dodonaei. *Dalech.* 1255.
P. minor longa. *Dalech.* 1255.
P. lanceolata. *Trag.* 225. *cop. from*
P. minor. *Brunsf.* i. 23. *Dod.* 107, *repr. in*
P. quinquenervia, sive Lanceola. *Lob. ic.* i. 305, *cop. in*
P. angustifolia sive quinquenervia major. *Park. theatr.* 496, *and repr. in*
P. quinquenervia. *Ger. by Johns.* 422. *Raii hist.* 877; *syn.* 314.
P. angustifolia major. *Tourn. paris.* 223. *Vaill. paris.* 160. *Boerh.* ii. 100.
Scapus sometimes 2 feet long. *Obs.* 2470. In a field.—2½ feet long. *Obs.* 8032. In a garden.

PLANTAGO lanceolata. *Dale* 214. *Herm.* 416. *Krock. n.* 234. *Mill. Jos.* 351.

P. minor. *Geoffr, suite* ii. 15. *Lew.* ii. 232. *Spielm.* 389.

P. major angustifolia. *Rutty* 398.

P. angustifolia. *Noef, account from in phys. journ.* vi. 276.

P. angustifolia major. *Chom.* 583.

Native of Europe from Italy to Sweden.

4. PLANTAGO *coronopus*. Leaves dentato-pinnatifid. Scapus terete. *Obs.* 8037. Below Great Malvern Worcestershire, and half way up Malvern Hill.—*Huds.* 64, *cop. in Smith brit.* 185; *engl. t.* 892. *Bot. arrang.* 145. *Fl. dan. t.* 272.

P. foliis laciniatis, Coronopus dicta. *Raii syn.* 315.

Coronopus Matthioli. *Dalech.* 669.

Coronopus hortensis. *Tourn. paris.* 329. *Vaill. paris.* 42. *Boerh.* ii. 101.

Coronopus. *Fuchs.* 439. *c.* 171, *abr. in Trag.* 99, *which repr. in Cord. fol.* 137. *p.* 2, *& cop. in*

Coronopus, sive Cornu cervinum vulgo, spica plantaginis. *Bauh. J.* iii. 509.

Herba stella, sive Cornu cervinum. *Dod.* 109, *repr. in*

Cornu cervinum. *Lob. ic.* i. 437, *and Ger. by Johns.* 427, *and cop. in*

Coronopus vulgaris, sive Cornu cervinum. *Park. theatr.* 502. *Raii hist.* 879.

Native of Europe from Italy to Sweden.

CORONOPUS. *Dale* 214. *Mill. Jos.* 152.

Buckshorn Plantain. *Clegh.* 24.

2. With a stem.

5. PLANTAGO *Psyllium.* Stem branched, herbaceous. Leaves lanceolato-linear. Bracteae and phylla cuneiform. *Obs.* 8038. Specimen gathered between Ostend and Paris, probably in Champagne.—*L. sp.* 167. *Hort. kew.* i. 154. *Host.* 78. *Scop. carn. n.* 165. *Roth germ.* i. 62. *Krock. n.* 240.

P. caule ramoso, foliis dentatis, spicis nudis. *L. ups.* 28. (The synonym and place of growth belong to P. indica.) In the description as also in that of the species n. 2, for flores destituti read flores distincti.

Psyllium majus erectum latifolium annuum. *Boerh.* ii. 101.

Psyllium majus erectum. *Bauh. J.* iii. 513. No fig.—*Tourn. paris.* 353. *Vaill. paris.* 165.

Psyllium alterum. *Dalech.* 1173, *imit. from*

Psyllium. *Fuchs.* 843. *c.* 341. *Trag.* 167. *Dalech.* 1172. *Dod.* 115, *repr. in*

Pulicaris herba. *Lob. ic.* i. 436, *&*

Psyllium, sive Pulicaris herba. *Ger. by Johns.* 587, *& abr. in*

Psyllium vulgare. *Park. theatr.* 278. *Raii hist.* 881; *europ.* 209. About Montpelier.

Native of Europe, from Italy to Paris and Berlin.

PSYLLIUM. Alst. ii. 369. *Cartheus.* i. 278. *Chom.* 73. *Dale* 215. *Herm.* 330. *Lew.* ii. 248; *disp. by Dunc.* 345; *by Rother.* 221. *Linn.* 56. *Mill. Jos.* 360. *Murr.* i. 193. *Spielm.* 636. *Vog.* 171. *Wintringham in Mead man.* i. 228.

Psyllium annuum. *Geoffr. suite* ii. 101.

Psyllium majus erectum. *Chom.* 813. *Rutty* 414.

6. PLANTAGO *squarrosa*. Stems herbaceous branched diffuse decumbent. Leaves linear, entire at the margin. Heads squarrose. *Murr. in L. a Murr.* 156. *Hort. kew.* i. 154.

P. aegyptiaca. *Jacq. rar.* i. *t.* 28; *coll.* i. 45.

Kalli III. *Alp. aegypt.* 51.

Kali aegyptiacum, foliis valde longis hirsutis. *Raii hist.* 1915.

SODA. *Murr.* iv. 286.

7. PLANTAGO *Cynops*. Stem branched, suffruticose. Leaves subulate. Bracteae and phylla oval. *Obs.* 1663. In the Edinburgh garden.—*L. sp.* 167. *Hort. kew.* i. 154.

Psyllium majus supinum angustifolium et perenne. *Boerh.* ii. 101.

Psyllium majus supinum. *Bauh. J.* iii. 513. *Raii hist.* 882; *europ.* 209. In Italy and about Montpelier.

Psyllium plinianum forte. *Lob. obs.* 239, *repr. in*

Psyllium plinianum forte, radice perenni supinum. *Lob. ic.* i. 437, *&*

Psyllium sempervirens Lobelii. *Ger. by Johns.* 587, *& cop. in*

Psyllium vulgare. *Park. theatr.* 279, (the name and description belonging to P. Psyllium,) *&*

Psyllium sempervirens. *Hist. ox.* iii. 262. *s.* 8. *t.* 17. *f.* 1.

Psyllium majus sempervirens. *Park. theatr.* 277. No fig.

Native of Italy and the south of France.

PSYLLIUM perenne. *Geoffr. suite* ii. 99.

Psyllium. *Berg.* 71.

86. SCOPARIA.

Calyx quadripartite. *Corolla* quadripartite, rotate. *Capsule* of 1 cell, 2 valves, and many seeds. *L.*

1. SCOPARIA *dulcis*. Leaves in threes. Flowers on peduncles. *L. sp.* 168. *Hort. kew.* i. 155.

Veronica fruticosa erecta dulcis, hexangulari caule, flore dilute caeruleo. *Sloane cat.* 81; *hist.* i. 195. *t.* 108. *f.* 2.

Veronica americana erecta frutescens et ramosa. *Herm. parad.* 241. *t.*

Phyteuodes americanum, flore albo tetrapetalo, staminibus referto, foliis et ramulis per intervalla ternis, sapore dulci. *Pluk. alm.* 296; *phyt. t.* 215. *f.* 1.

Basourinha, sive Tupeicava. *Pis. bras.* 110, *cop. in ind.* 246.

SCOPARIA dulcis. *Jacq. amer.* 17, *repr. in* 8*vo* 21.

87. SANGUISORBA.

Calyx inferior, tetragonous, urceolate, the mouth surrounded by a fleshy ring. *Petals* 4, ovate, inserted into the calyx. *Stamina* 4, inserted into the fleshy ring of the calyx. *Germen* inclosed within the calyx. *Style* 1. *Stigma* pencilshaped. *Capsule* inclosed by the permanent calyx. *Obs.* 4960. *L.*

1. SANGUISORBA *officinalis*. Stamina as long as the corolla. Spikes oval, oblong, and round. *Obs.* 4960. In a meadow.—*L. suec. n.* 137; *sp.*

169. *Bot. arrang.* 147. *Smith brit.* 186; *engl. t.* 1312. *Krock. n.* 243. *Fl. dan. t.* 97.

Pimpinella spica brevi rubra. *Boerh.* ii. 99.

Pimpinella, S. major. *Vaill. paris.* 159.

Pimpinella sylvestris. *Raii hist.* 402. *Ger. by Johns.* 1045, *cop. from*

Pimpinella sylvestris, S. major. *Dod.* 105, *which repr. in*

S. altera major, sive Pimpinella. *Lob. ic.* i. 719, *and cop. in*

Pimpinella major vulgaris. *Park. theatr.* 582. *Raii syn. ed.* ii. 100.

S. major, flore spadiceo. *Dill. ap. Raii syn.* 203. *Bauh. J.* iii. *b.* 120, *cop. from*

S. major. *Fuchs.* 749. *ed. fol. and* 12*mo c.* 304, *which imit. in Cord. fol.* 143. *p.* 2, *which repr, from*

Pimpinella italica. *Trag.* 470, *& cop. in*

Pimpinella, sive S. major. *Dalech.* 1088.

Pimpinella, sive S. major Matthioli. *Dalech.* 1087.

Spikes oval and oblong, brownish purple, begining to flower at the top. *Stipulae* sometimes at the base of the partial petioles of the lower leaves. *Bracteae* 2 at the base of each flower. *Stamina* caducous. *Obs.* 4960. Meadows near Chesterfield on gritstone.

SANGUISORBA. Vog. 224.

Pimpinella italica. *Linn.* 56. *Murr.* i. 190.

Pimpinella, S. major. *Boecl. ap. Herm.* 171.

88. CISSUS.

Berry monospermous, encompassed by the calyx and quadripartite corolla. *L.*

1. CISSUS *latifolia*. Leaves cordato-ovate, villose, acuminate, serrate; teeth setaceous. Branches tetragonous. *Vahl. symb.* iii. 18.
Schunambu-valli. *Rheede* vii. 21. *t.* 11.
FUNIS CREPITANS major. *Rumph.* v. 446. *t.* 164. *f.* 1.

2. CISSUS *quadrangularis*. Leaves cordate, fleshy, serrato-dentate. Stem tetragonous. Internodia swoln. *L. a Murr.* 158; *mant.* 39.
C. quadrangula. *Salisb. R. allert.* 66.
Saelanthus quadragonus. *Forsk.* 33. *t.* 2.
(Planta baccifera scandens epidendros maderaspatana, geniculato et quadripinnato caule, flosculis exiguis, ad genicula capreolis donata. *Pluk. alm.* 298; *phyt. t.* 310. *f.* 6, has no leaves, and has a solitary flower and solitary berry.)
FUNIS QUADRANGULARIS. *Rumph.* v. 83. *t.* 44. *f.* 2.

3. CISSUS *crenata*. Leaves ternate; folioles roundish, crenate. *Vahl. symb.* iii. 19.
Vitis trifolia. *L. sp.* 293.
FOLIUM CAUSONIS. *Rumph.* v. 451. *t.* 166. *f.* 2. Leaves ovali-elliptic.

4. CISSUS *acida*. Leaves ternate, rhombeo-obovate, inciso-crenate, glabrous, fleshy. *Obs.* 8668. Specimen gathered by Dr. Wright in Jamaica.—*L. a Murr.* 158; *sp.* 170. *Swartz. obs.* 49. *Hort. kew.* i. 156.
Vitis foliis subrotundis serratis. *Plum. a Burm.* 259. *t.* 259. *f.* 5.
Vitis trifolia minor, uva corymbosa, acinis majoribus turbinatis. *Plum. sp.* 18.

Bryonioides trifoliatum indicum, foliis succulentis crassis et crenatis. *Pluk. alm.* 71; *phyt. t.* 152. *f.* 2. No fructifications.

Chamaedryfolia scandens claviculata et corymbosa jamaicensis. *Pluk. alm.* 96; *phyt. t.* 81. *f.* 5, in flower, is thought by Sloane to have been drawn from a specimen in which the lateral folioles had fallen off.

BRYONIA alba triphylla geniculata, foliis crassis acidis. *Sloane cat.* 106; *hist.* i. 233. *t.* 142. *f.* 5 *and* 6. In fruit.

5. CISSUS *carnosa.* Leaves ternate, ovate, obtuse, serrate, glabrous. Branches and petioles terete. *Vahl. symb.* iii. 19.

Funis crepitans trifolius. *Rumph.* v. 447. *t.* 165.

TSJORI-VALLI. *Rheede* vii. 17. *t.* 9.

6. CISSUS *pedata.* Leaves pedate; folioles lanceolate, serrate, tomentose underneath. *L. a Willd.* i. 659.

BELUTTA-TSJORI-VALLI. *Rheede* vii. 17. *t.* 10.

89. ALLASIA.

Berry with seeds dispersed throughout the pulp. *Calyx* inferior, quinquefid. *Corolla* superior, tetrapetalous. *Lour.*

1. ALLASIA *Payos.* *Lour.* i. 107.

90. CORNUS.

Calyx superior, quadridentate. *Petals* 4. *Drupe. Nut* with 2 cells. *Seeds* solitary. *Obs.* 3898. *L.*

1. *With an involucrum. H. K.*

1. CORNUS *biramis.* Stem with 2 branches. *Obs.* 3744. Specimen gathered by Mr. Robson in the Howl of Horkham near Kirkby-moor-side, in the north riding of Yorkshire.

C. suecica. *L. suec. n.* 139; *sp.* 171; *a Willd.* i. 660. *Bot. arrang.* 161. *Smith engl. bot. t.* 310; *brit.* 188. *Lightf.* 119, on the Highland mountains.—*Fl. dan. t.* 5, *abr. in*

C. herbacea. *Penn. scot. & hebrid. t.* 39, *at p.* 314. *Huds.* 71. On Pickering Moor and near Tadcaster Yorkshire.—*Teesdale in linn. trans.* ii. 105. In the Hole of Huckham near Pickering.

C. pumila herbacea, Chamaepericlymenum dicta, *Dill. hort.* 108. *t.* 91.

Chamaepericlymenum. *Raii hist.* 655, on the Cheviot hills Northumberland; *syn.* 261, found by Wood on the Pentland hills near Edinburgh.—*Clus. hist.* i. 60, *repr. in Ger. by Johns.* 1296, *and cop. in Park. theatr.* 1461, *repr. from*

Periclymenum II. *Clus. pann.* 88, to whom the figure communicated by Penney; *& cop. in*

Periclymenum parvum prutenicum Clusii. *Bauh. J.* ii. 108.

CORNUS herbacea. *Linn. lapp. n.* 65. *t.* 5. *f.* 3.

2. CORNUS *florida.* Stem woody. Involucrum many times longer than the umbel; the ends of the

bracteae inflex. *From L. sp.* 171, *and Curt. mag. t.* 526. *Hort. kew.* i. 157.

C. involucro maximo, foliolis obverse cordatis. *L. cliff.* 38. *Gron. virg.* 20; *ed.* i. 17.

C. mas virginiana, flosculis in corymbo digestis, a perianthio tetrapetalo albo radiatim cinctis. *Cattesb.* i. 27. *t.* 27. *Pluk. alm.* 121; *phyt. t.* 20. *f.* 3. Bracteae of the involucrum rhombeo-oval.

CORNUS florida. *Coxe* 370. *Marsh.* 35. *Schoepf* 14. *Walker, account from in chir. rev.* xviii. 15.

3. CORNUS *praecox.*—Stem woody. Involucrum as long as the umbels. *L.*

C. mascula. *L. a Murr.* 159. *Hort. kew.* i. 158.

C. mas. *L. sp.* 171. *Host* 79. *Krock. n.* 244. *Dalech.* 329. *Raii hist.* 1536; *europ.* 106. In a wood near Rome, in the Milanese, and in Piedmont. —*Ger. by Johns.* 1466, *repr. from*

Cornus. *Dod.* 791. *Trag.* 1024, *repr. in Cord. fol.* 188. *p.* 2. *Lob. ic.* ii. 169, *cop. in*

C. mas, fructu rubro. *Park. theatr.* 1521, *and abr. in*

C. mas. *Park. parad. t.* 569. *f.* 7.

C. sativa, seu domestica. *Bauh. J.* i. *a.* 210.

C. hortensis mas. *Tourn. paris.* 424. *Vaill. paris.* 42. *Boerh.* ii. 256.

Native of Italy, France, Switzerland, and Germany.

CORNUS. Dale 307. *Geoffr.* iii. 360. *Mill. Jos.* 152. *Rutty* 142.

Corni. *Spielm.* 104.

C. mascula. *Bryant* 229.

Cornouillier. *Chom.* 621.

4. CORNUS *sericea.* Last years branches smooth. Cymes depressed. Leaves elliptic, silky under-

neath, the younger ferruginous underneath. *Obs.* 3899. Specimen without fructifications gathered in the garden of Fothergill.—*L. mant.* 199. *Hort. kew.* i. 158. (*L. a Murr.* 159 must be *C. alba* or some other species, the branches being described as having wartlike ash coloured dots, whereas in *L. mant.* 199. the branches are described as smooth. Reichard in syst. pl. has united these contradictions into one mass without pointing out the contradictions or citing the opposing authorities, and Willdenow has omitted them.)

C. americana sylvestris, domesticae similis, bacca caerulei coloris. *Pluk. phyt. t.* 169. *f.* 3.

CORNUS sericea. *Coxe* 370. *Walker, account from in chir. rev.* xviii. 15.

C. Amomum. *Schoepf* 14.

91. FAGARA.

Calyx quadrifid. *Petals* 4. *Capsule* simple, or didymous. *Seeds* one in a cell. *From Gaertn. L.*

1. FAGARA *Pterota.* Leaves pinnate; folioles emarginate. Spikes axillary. *Obs.* 8044. Specimen gathered by Broughton in Jamaica.—*L. sp.* 172; *amoen.* v. 393; *mant.* 331. *Hort. kew.* i. 161.

Pterota subspinosa, foliis minoribus per pinnas marginato-alatas dispositis, spicis geminatis alaribus. *Browne* 146. *t.* 5. *f.* 1.

Lauro affinis, jasmini folio alato, costa media membranulis utrinque extantibus alata, ligni duritie ferro vix cedens. *Sloane cat.* 137; *hist.* ii. 25. *t.* 162, has acute folioles, agreeing with the characters of *F. acuminata* of Swartz.

Leaves without aculei; folioles obovate, emarginate at the end; margin revolute, entire. *Obs.* 8044.

FAGARA. Linn. 56.

2. FAGARA *Piperita.* Folioles crenate, ovate. *From Kaempfer.—Hort. kew.* i. 161. *Lour.* i. 101: *L. sp.* 172, *from*

Piper japonicum. *Kaempf. amoen. t.* 893. Folioles acute; 5 pairs with an odd one.

FAGARA Piperita. *Thunb. jap.* 64; *trav.* iii. 62, 150; iv. 89.

3. FAGARA *octandra.* Folioles tomentose. *L. mant.* 40, *from*

Elaphrium tomentosum. *Jacq. amer.* 105. *t.* 71. *f.* 1, 2, 3; 8*vo edit.* 133. He says a glutinous balsam exudes from every part of the tree, but he does not even compare it to the Tacamahaca of the shops.

Tacamahacca americana, rosacis foliis alata. *Seb.* 49. *t.* 48. *f.* 3. Peduncles axillary, distant. Leaves lanuginose; folioles 5.

Therebinthus americana, sorbi aucupariae foliis rachi medio appendicibus alata, arbor americana resinosa, foliis ad rosarum folia accedentibus. *Pluk. phyt. t.* 228. *f.* 7. Folioles 5.

TACAMAHACA in testa. *Berg.* 72, apparently on the authority of Des Marchais.

4. FAGARA *Elaphrium.* Leaves pinnate, glabrous; folioles oblongo-lanceolate, obtusely dentate. Petioles articulated, winged. Stamina 8. *L. a Willd.* i. 668.

Elaphrium glabrum. *Jacq. amer.* 106. *t.* 71. *f.* 4, a leaf; 8vo *ed.* 133.

Copalli Quahvitl, seu arbor gummifera copallifera I. *Hern.* 45.

Copalifera. *Berg. mat. med. n.* 565.

COPAL. Alst. ii. 409. *Berg.* 896. *Dale* 315. *Geoffr.* ii. 515. *Lew.* i. 364; *disp. by Rother.* 148; *in Neum.* ii. 27. *Linn.* 285. *Mill. Jos.* 222. *Monro* ii. 359. *Rutty* 225. *Schoepf* 39. *Spielm.* 313. *Vog.* 317.

Gomme Copal. *Chom.* 671.

5. FAGARA *Avicennae.* Leaves pinnate; folioles lanceolate, entire at the margin, glabrous. *L. a Willd.* i. 668, *from Lamarck.—Clus. exot.* 185, *repr. in Lob. obs.* 565, *& ic.* ii. 133, *cop. in Dalech.* 1831, *repr. in*

Fagara. *Ger. by Johns.* 1548, *cop. in Tab. ic.* 923, *& abr. in*

F. major. *Bauh. J.* i. *a.* 350, the 6 upper figures. —*Raii hist.* 1814.

Fagara seu Cayutana Luzonis. *Camell.* 74, *in Raii hist.* iii.

FAGARA. Dale 316.

92. MONETIA.

Calyx quadrifid. *Petals* 4. *Berry* bilocular; cells monospermous. *L. a Willd.—Lherit.*

1. MONETIA *diacantha.* Spines opposite. Leaves pubescent. *L. a Willd.* i. 670, *from*

Amaranthoides indicum verticillatum, parietariae

hirsutis foliis, spinosum. *Pluk. alm.* 7. *t.* 133. *f.* 3, &

TSJEROU KARA. *Rheede* v. 73. *t.* 37.

93. PTELEA.

Petals 4. *Calyx* inferior, quadripartite. *Stigmata* 2. *Samara* roundish, bilocular, monospermous. *Obs.* 8380. *L. a Willd.* i. 670. *L.*

Flowers sometimes dioecious and sometimes polygamous. *L. a Willd.* & *L. a Schreb.*

1. PTELEA *trifoliata.* Leaves ternate. *L. sp.* 173. *Hort. kew.* i. 162.

P. foliis ternatis. *Gron. virg.* 20.

Frutex virginianus trifolius, ulmi samaris. *Dill. hort.* 147. *t.* 122. *f.* 148.

Samara bilocular; one of the cells containing a seed. *Obs.* 8380. Specimen gathered in Fothergill's garden.

PTELEA trifoliata. *Schoepf* 15.

94. OLDENLANDIA.

Corolla monopetalous, quadrifid. *Calyx* superior, quadripartite. *Capsule* bilocular, polyspermous. *From L. gen.* & *Gaertn.* 30.

In *L. a Murr.* 161, *L. a Willd.* i. 674, & *Hort. kew.* i. 163, read corolla monopetala, for corolla tetrapetala, an error which Linnaeus omitted to correct, on detecting the error adopted from *Plum. gen. t.* 36.

If this be, as Schreber in *L. a Schreb.* 820 suggests, the same genus with *Hedyotis*, those species described by Koenig as having 5 petals may retain the name.

1. OLDENLANDIA *depressa*. Stem diffuse. Leaves elliptic, petiolate, glabrous. Peduncles in pairs, axillary. *L. a Willd.* i. 675, *from*
NELATSJERA. *Rheede* x. 61. *t.* 31, who describes it as having 4 petals.

95. SANTALUM.

Calyx superior, quadrifid. *Petals* 4, very small, inserted into the calyx. *Stigma* with 4 lobes. *Berry* with 1 cell and 1 seed. *From Roxb.—L.*

1. SANTALUM *myrtifolium*. S. album. *L. sp.* 497; *a Murr.* 164; *a Reich.* i. 344; *a Willd.* i. 691, where, as also in *L. a Reich.* the observations in L. mant. & a Murr. are omitted.—*Bauh. Casp. pin.* 392. *Burm. ind.* 87. *Woodv.* iv. 136. *t.* 264, from a specimen in the herbarium of Sir Jos. Banks.—*Lour.* i. 109. *Tab. ic.* 933, specimen of the wood.
Sirium myrtifolium. *L. mant.* 200; *a Murr.* 160. *Roxb.* i. 2. *t.* 2.
S. verum ligno citrino et albo, foliis laurinis. *Breyn. prodr.* 94.
S. album et citrinum officinarum. *Breyn. ic.* 19. *t.* 5. *f.* 1, a branch without fructifications, from a dried specimen sent to his father from India.
Sandalum album timorense. *Rumph.* ii. 42. *t.* 11 a branch without fructifications.

S. flavum. *Tab. ic.* 933, specimen of the wood. *Native* of the East Indies. *Specimens* in Sir Jos. Banks's herbarium gathered at Tranquebar by the Moravian missionaries, by Koenig, A. P. Howe, and Pat. Russell.

SANTALUM citrinum. *Alst.* ii. 48. *Berg.* 299. *Cartheus.* iii. 196. *Cull.* ii. 211. *Dale* 325. *Herm.* 228. *Hill* 683. *Lew.* ii. 329; *disp. by Rother.* 234. *Linn.* 58. *Mill. Jos.* 391. *Murr.* ii. 87. *Neum.* ii. 213. *Spielm.* 392. *Wintringham in Mead mon.* i. 231.

S. flavum. *Geoffr.* ii. 240. *Rutty* 461.

S. pallidum. *Chom.* 344.

SANTALUM album. *Alst.* ii. 48. *Berg.* 299. *Cartheus.* iii. 196. *Chom.* 344. *Dale* 325. *Geoffr.* ii. 240. *Herm.* 229. *Lew.* ii. 330. *Linn.* 58. *Mill. Jos.* 391. *Murr.* ii. 87; *J.* i. 197. *Spielm.* 392. *Vog.* 283.

96. GLEDITSIA.

Calyx of the hermaphrodite flowers quadrifid; of the male flowers triphyllous; of the female flowers pentaphyllous. *Corolla* of the hermaphrodite flowers tetrapetalous, of the male flowers tripetalous, of the female flowers pentapetalous. *Legumen.* *From L.*

1. GLEDITSIA *polysperma.* Spines trifid. Legumina polyspermous. *Obs.* 8669. Specimen gathered in Fothergill's garden, without fructifications.

G. meliloba. *Walt. carol.* 251.

G. triacanthos. *L. sp.* 1509 α; *a Willd.* iv. 1097. *Gouan. hort.* 520. *Michaux* ii. 257.

G. Triacanthus. *Mill. Ph. dict. n.* 1.

G. triacanthos polysperma. *Hort. kew.* iii. 444.

G. spinosa, *Marsh.* 54.

Gleditsia, *Gron. virg.* 161. *L. ups.* 298.

Caesalpinioides. *L. cliff.* 489, who says that he had never seen the flowers, but that the fruit is a polyspermous legumen, probably on the authority of Clayton.

Acacia americana, abruae foliis, triacanthos, sive ad axillas foliorum spina triplici donata. *Cat. lond.* 3. *t.* 21, without flowers, with a long polyspermous legumen inserted into a branch, probably from North America, the flowers being said to drop off in the neighbourhood of London, without producing legumina.

Acacia triacanthos, siliquis latis fuscis, pulpa virescenti subdulci. *Gron. virg. ed.* i. 59.

Acacia americana, abruae folio, triacanthos. *Pluk. mant.* 1. *t.* 352. *f.* 1. No fructifications.

GLEDITSIA triacanthos. *Schoepf* 154.

97. TRAPA.

Petals 4. *Calyx* quadripartite. *Nut* of 1 cell, and 1 seed, surrounded with spines formed from the calyx. *Obs.* 5336. *L.*

1. TRAPA *quadricornis.* Nuts with 4 patent spines. *Obs.* 5336. Specimen from M. Hertel.

T. natans. *L. fil. suppl.* 128. *L. suec. n.* 140;

sp. 175; *mant.* 332. *Hort. kew.* i. 164. *Sibth. prodr. n.* 368.

Tribuloides vulgare, aquis innascens. *Vaill. paris.* 194.

Tribulus aquaticus major. *Park. theatr.* 824, *cop. from*

Tribulus aquatilis. *Dod.* 571, *which repr. in*

Tribulus aquaticus. *Lob. obs.* 324; *ic.* i. 596, *and Ger. by Johns.* 824, *and cop. in Dalech.* 1083. *Bauh. J.* iii. 775. *cop. from Trag.* 841, the 4 uppermost figures.—*Cam. epit.* 715.

Panover-Tsjeraua. *Rheede* xi. 63. *t.* 33.

Native of Hindostan, the northern borders of Greece, Italy, France, Germany, and Sweden.

TRAPA natans. *Bryant* 365. *Krock. n.* 246.

Tribulus aquaticus. *Chom.* 623. *Dale* 267. *Geoffr. suite* iii. 229. *Murr.* iv. 86. *Spielm.* 122.

Nux aquatica. *Berg.* 72 *Linn.* 57. *Mill. Jos.* 314. *Vog.* 273.

Water Nuts. *Thunb. trav.* iv. 38.

Sringataca. *Jones in asiat. research.* ii. 350.

98. POTHOS.

Calyx none. *Petals* 4. *Berry* bilocular. *Seeds* solitary. *From L.*

1. POTHOS *scandens.* Petioles about as broad as the laminae of the leaves. Stem radicant. *From L. a Murr.* 829; *sp.* 1374,

Adpendix duplo folio. *Rumph.* v. 490. *t.* 184, &

ANA-PARUA. *Rheede* vii. 75. *t.* 40 Laminae broader than the petiole.

2. POTHOS *pinnatifida.*—Leaves pinnatifid. *L.*
P. pinnata. *L. sp.* 1374.
ADPENDIX LACINIATA. Rumph. v. 489. *t.* 183. *f.* 2.

99. KRAMERIA.

Calyx none. *Petals* 4. *Nectaria* 2; the upper tripartite, the lower diphyllous. *Berry* dry, echinate, monospermous. *L.*

1. KRAMERIA *triandra.* Stamina 3. *From Ruiz quoted by Gillespie in phys. journ.* xiv. 127.

100. SALVADORA.

Calyx inferior, quadridentate. *Corolla* quadrifid, campanulate. *Style* none or very short. *Berry* monospermous. *From Koenig in Roxb. and Roxb.—L.*

Wallenia of Swartz differs in having a tubular corolla and a style half as long as the corolla.

1. SALVADORA *persica. L. sp.* 178; *a Murr.* 166. *Vahl. symb.* i. 12. *t.* 4. *Roxb.* i. 26. *t.* 26.
Rivina paniculata. *L. à Murr.* 165.
SALVADORA. Vog. 117.

101. CAMPHOROSMA.

Calyx tetraphyllous. *Corolla* none. *Style* bifid. *Capsule* of 1 cell, with 1 seed. *Obs.* 4286. *L.*

1. CAMPHOROSMA *hirsuta*. Leaves subulate, hirsute. *Obs.* 4286. Specimen gathered in the Paris garden.

C. monspeliaca. *L. sp.* 178. *Hort. kew.* i. 166. (*Mill. Ph. dict. n.* 1 is described as an annual.)

Camphorata hirsuta. *Buxb.* i. 18. *t.* 28. *f.* 1. *Raii hist.* 210; *europ.* 83. In the south of France.

Camphorata monspeliensium. *Magn. monsp.* 47. *Bauh. J.* iii. *b.* 379.

Camphorata monspeliaca. *Lob. adv.* 174, *repr. in ic.* i. 403, *& cop. in*

Camphorata major monspeliensium. *Park. theatr.* 568.

Selago, sive Camphorata. *Dalech.* 1201.

Calyx apparently quadrifid. *Obs.* 4286.

CAMPHORATA. Berg. 74. *Burlet in acad. sciences abr. by Southw.* iii. 240. *Dale* 77. *Geoffr.* iii. 245. *Linn.* 58. *Mill. Jos.* 106. *Murr.* iv. 333.

Camphorata hirsuta. *Chom.* 230. *Vog.* 95.

2. CAMPHOROSMA *glabra*. Leaves subtriquetrous, glabrous, not rigid. *L. sp.* 178. *Mill. Ph. dict. n.* 2.

Chamaepeuce Plinii, Camphorata minor. *Dalech.* 1179.

Camphorata minor. *Raii hist.* 211.

CAMPHORATA glabra. *Vog.* 95.

102. PARIETARIA.

Calyx inferior, quadrifid. *Corolla* none. *Stamina*

4. *Style* filiform. *Stigma* round, hirsute. *Seed* 1, ovate. *Obs.* 7484. *Juss.* 404. *L.*

Female flowers interspersed, and in *P. judaica* the flowers appear to be male and female,

1. PARIETARIA *indica*. Leaves trinervose, lanceolate. Bracteae subulate. *From L. mant.* 128, & *Smith brit.* 189, in treating of P. officinalis.

CRATEOGONUM amboinicum majus. *Rumph.* vi. 25. *t.* 10.

2. PARIETARIA *officinalis*. Leaves triplinervose, lanceolato-elliptic, and rhombeo-elliptic. Involucra tripartite. *Obs.* 7484. On the walls of Tutbury Castle, Staffordshire, and on old stone walls at Worcester and Lichfield, all built of red cos, but Mr. Knowlton informs me that he has seen it on the walls of York, built of magnesian limestone, and of Lismore Castle, in the county of Waterford, Ireland, built of schistus, and among the schistose rocks of Ouneshade Glen near Lismore.—*Smith brit.* 189. *L. a Willd.* iv. 953; *sp.* 1492; *a Murr.* 908. *Pollich n.* 940. *Walc. t. Curt. lond.* iv. 63. *t. Lightf.* 634. *Bot. arrang.* 1141. *Gouan. hort.* 516. *Fl. dan. t.* 521. *Woodv.* iii. 384. *t.* 142.

P. judaica. *Mill. Ph. dict. n.* 2. On old walls in most parts of England.

P. foliis elliptico-lanceolatis. *Hall. hist. n.* 1612.

P. foliis lanceolato-ovatis. *L. cliff.* 469. *Royen* 211.

P. foliis helxines. *Boccon. sic.* 47. *t.* 24. *A.*

P. officinarum, et Dioscoridis. *Tourn. paris.* 292. *Vaill. paris.* 157. *Boerh.* ii. 92. In Holland.—*Magn. monsp.* 199; *hort.* 153. *Hist. ox. s.* 5. *t.* 30. *row* 3. *f.* 1, *abr. from*

Helxine. *Cam. epit.* 849. *Lonic.* 166. *Fuchs. fol. ed.* 277, *cop. in*

Helxine, seu Parietaria. *Fuchs.* 12*mo ed.* 278. *c.* 107,

Parietaria. *Turn.* ii. 14, *and Bauh. J.* ii. 976. *Tab. ic.* 550. *Brunsf.* i. 262, *cop. in Trag.* 193. *Raii syn.* 158. *Dod.* 102, *repr. in Ger. by Johns.* 331,

Helxine sive Parietaria. *Lob. obs.* 131, *cop. in*

P. vulgaris. *Park. theatr.* 437, *repr. in*

Helxine. *Lob. ic.* i. 258, *and cop. from Matth.* 1113.

Stems pubescent, brittle, mostly erect, to 2 feet long. *Branches* short. *Leaves* triplinervose at the base; upper surface slightly shining and slightly scabrous; young ones pubescent, at length nearly glabrous. *Heads* orbicular, axillary, sessile, in pairs, on the stem and branches, with frequently a young branch between them. *Involucra* generally with 7 flowers, tripartite; the lowermost segment lanceolate; the lateral ones deeply trilobate; segments subrotundo-ovate, the 2 lateral ones with 2 subrotundo-ovate appendages rising from the base. *Flowers* from 3 to 7 in each involucrum; the female one solitary, in the center, at the base of the middlemost segment; and the hermaphrodite ones fertile, generally 3 in each of the lateral lobes, the middlemost flower of each set placed at the base of the middlemost lobe, and each of the remaining 2 at the base of the lateral lobes and supported on the sides by the appendages. *Calyx* greenish, tinged with purplish pink, villose, within lanuginose; that of the female flower ovate, acute, probably quadrifid, being easily separable into 4 triangulari-subulate segments cohering by villi and lanugo; slightly tetra-

gonous, as long as the segment of the involucrum at its base; that of the hermaphrodite flower campanulate, quadrifid, extending a little beyond the involucrum; segments triangulari-ovate, acute, concave. *Stamina* somewhat longer than the calyx. *Filaments* subulate, fleshy, with transverse rugae, bowed in before flowering. *Germen* shining. *Style* as long as the germen, crimson, caducous. *Stigma* crimson; hairs at the base longer and more patent than the rest. *Obs.* 7484.

PARIETARIA. Herb. *Pharm. lond.*—*Alst.* ii. 195. *Berg.* 824. *Geoffr. suite* i. 328. *Hill* 378. *Lew.* ii. 188; *disp. by Dunc.* 274. *Linn.* 265. *Mill. Jos.* 333. *Monro* iii. 198. *Murr.* iv. 570. *Rutty* 379. *Spielm.* 566. *Vog.* 74.

Helxine. *Dale* 76.

Pellitory of the wall. *Bisset ess.* 162.

Parietaire. *Chom.* 711; *suppl.* 194.

103. ALCHEMILLA.

Calyx octofid. *Corolla* none. *Stamina* 4, or 1. *Seed* one. *Obs.* 4746. *L.*

1. ALCHEMILLA *lobata.*—Leaves lobate. *L.*

A. vulgaris. *L. suec. n.* 141; *sp.* 178. *Mill. Ph. dict. n.* 1; *ic.* 12. *t.* 18. *Fl. dan. t.* 693. *Krock. n.* 247. *Bot. arrang.* 162. *Smith brit.* 189; *engl. t.* 597.

ALCHIMILLA. Alst. ii. 78. *Cartheus.* iv. 208. *Dale* 76. *Geoffr.* iii. 51. *Herm.* 562. *Lew.* i. 43. *Linn.* 58. *Mill. Jos.* 21. *Rutty* 12. *Spielm.* 374. *Vog.* 49.

Alchimilla vulgaris. *Chom.* 567.

Alchemilla. *Berg.* 75. *Lew. disp. by Dunc.* 86. *Murr.* iii. 149. *Ploucq. bibl.* i. 406.

α *glabriuscula.* Leaves pubescent at the margin and underneath. *Obs.* 4746. In Wingerworth park near Chesterfield.

Pes leonis. *Fuchs.* 584. *c.* 234, *cop. in*

Pes leonis, sive Alchimilla. *Bauh. J.* ii. 598. *i.* &

Alchimilla. *Dod.* 140, *which repr. in Ger. by Johns.* 949. *Trag.* 512. *Raii hist.* 208; *syn.* 158. *Lob. ic.* i. 663, *cop. in*

Alchymilla major vulgaris. *Park. theatr.* 538.

Stellaria. *Dalech.* 1281.

Stem 13 inches long. *Leaves* glabrous on the upper surface. *Calyx*, the 4 outer segments as narrow again as the 4 inner, nearly as long. *Obs.* 4746.

β *pubescens.* Leaves pubescent all over. *Obs.* 387. On the side of a rivulet in a plashy ground just under Malvern wells Worcestershire, and in the plain below Malvern hills.

A. vulgaris β *L. sp.* 179 where β ought to be placed opposite to the line A. minor.—*Huds.* β *Bot. arrang.* 162 β δ

Alchimilla pubescens minor. *Schol. bot.* 230. *Pluk. alm.* 18; *phyt. t.* 240. *t.* 2.

A. hybrida. *Mill. Ph. dict. n.* 2; *ic.* 12. *t.* 18, inner fig.—Leaves obsoletely lobed.

Alchymilla minor, hirsuta cineritia italica. *Barr. t.* 728.

2. ALCHEMILLA *monandra.* Leaves multifid. Stamen one. *Obs.* 413. In corn fields.—*Swartz prodr.* 38?

A. Aphanes. *Bot. arrang.* 163. *Roth germ.* ii. 195. *Retz. scand. n.* 206.

A. arvensis. *Scop. carn. n.* 175. *Smith brit.* 190; *engl. t.* 1011.

Aphanes arvensis. *L. succ. n.* 143; *sp.* 179. *Fl. dan. t.* 973.

A. montana minima. *Col. ecphr.* i. 145. *t.* 146. *Tourn. paris.* 48. *Vaill. paris.* 4.

Percepier anglorum. *Raii hist.* 209; *syn.* 159. *Lob. adv.* 324, *repr. in ic.* i. 727; *Ger. by Johns.* 1594, *and enlarged in Dalech.* 713, *which cop. in*

Polygonum selinoides, sive Percepierre anglorum. *Park. theatr.* 449.

Perchepier anglorum quibusdam. *Bauh. J.* iii. *b.* 74. *Boerh.* ii. 93.

Native of Europe from Italy to Sweden, and probably of America from the Antilles to Virginia.

PERCEPIER. Dale 76. *Mill. Jos.* 338.

DIGYNIA.

104. HAMAMELIS.

Calyx tetraphyllous. *Petals* 4. *Nectaria* 4, alternating with the stamina. *Nut* with 2 horns, and 2 cells. *Obs.* 2645. *L.*

1. HAMAMELIS *virginica. L. sp.* 180; *mant.* 333. *Hort. kew.* i. 167.

Hamamelis. *Gron. virg.* 22. *Catesb. append.* 2. *t.* 2. *Cutl. in amer. acad.* i. 412.

H. androgyna. *Walt. carol.* 255.

Calyx, phylla ovate, obtuse, recurvate, slightly villose at the margin. *Petals* of the same colour as the calyx, glabrous, inserted at the base of the germen. *Nectaria* compressed, obtuse, fleshy, reflexo-patent, as long as the filaments, inserted between the petals and the germen. *Antherae* bilocular. *Germen* with a few scattered hairs. The number 4 prevails in a remarkable manner, and the styles are half the number. *Obs.* 2645. In a garden, in Feb. when none of the leaves had appeared.

HAMAMELIS virginiana. *Schoepf* 15.

105. CUSCUTA.

Calyx quadrifid, and quinquefid. *Corolla* monopetalous. *Capsule* with 2 cells. *Obs.* 4389. 4391. 4386. *Specimens dried.—L.*

1. CUSCUTA *urceolata.* Nectaria none. *Obs.* 4552. Specimen gathered by Broughton in Britain.

C. europaea *L. suec. n.* 144 *α*; *sp.* 180 *α*; *a Murr.* 167. *Bot. arrang.* 165. *Smith engl. bot. t.* 378; *brit.* 282. *Fl. dan. t.* 199.

Cassutha. *Dalech.* 1683. *Dod.* 545, *repr. in*

Epithymbra, Epithymum, et Cassitha Plinii. *Lob. obs.* 233,

Cassitha Plinii, C. officinarum. *Lob. ic.* i. 427, *&*

C. sive Cassutha. *Ger, by Johns.* 577, *& cop. in*

Cuscuta. *Park. theatr.* 10. *Raii hist.* 1903.

Cassutha, sive Cuscutha. *Fuchs.* 343, *c.* 132, *cop. in*

Cassuta, sive Cuscuta. *Bauh. J.* iii. *b.* 266, *and imit. in*

Androsaces, vulgo Cuscuta. *Trag.* 810.

C. major. *Vaill. paris.* 43.

Corolla urceolate. *Nectaria* so small, if present, as not to be distinguished in dried specimens. If not present in this species the absence of nectaria will afford the best characteristic. *Obs.* 4391. Mar. 3. 1797, before I had seen Smith eng. t. 378 though published 1 Jan.

CUSCUTA. Berg. 76. *Dale* 186. *Herm.* 524. *Krock. n.* 250. *Linn.* 59. *Mill. Jos.* 166. *Murr.* i. 194. *Spielm.* 633.

C. major. *Alst.* ii. 124. *Chom.* 504. *Geoffr.* iii. 386.

2. CUSCUTA *campanulata.* Nectaria at the base of the stamina. Stigmata simple. *Obs.* 8042. Specimen gathered by Dr. Winstanley in the west of England.

C. Epithymum. *L. a Murr.* 167. *Bot. arrang.* 166. *Smith engl. bot.* 378; *brit.* 283. *Fl. dan. t.* 427.

C. europaea. *L. suec. n.* 144 β *Huds.* 104. *Smith engl. bot. t.* 55.

C. europaea epithymum. *L. sp.* 180.

C. minor. *Tourn. paris.* 426. *Vaill. paris.* 43.

Epithymum Matthioli. *Dalech.* 1682.

Epithymum graecorum et arabum. *Lob. ic.* i. 427, *cop. in Dalech.* 1682.

Epithymum. *Park. theatr.* 10.

Epithymum, sive C. minor. *Raii hist.* 1904.

EPITHYMUM. Alst. ii. 124. *Berg.* 77. *Chom.* 74. *Dale* 186. *Geoffr.* iii. 386. *Herm.* 524. *Krock. n.* 250. *Lew.* i. 414. *Linn.* 59. *Mill. Jos.* 186. *Murr.* i. 195. *Rutty* 180.

Epithymum, sive C. minor. *Chom.* 505.

106. HYPECOUM.

Calyx diphyllous. *Petals* 4, the 2 outer broader. *Siliqua. Willd. L.*

1. HYPECOUM *procumbens*. Siliquae bowed, compressed, jointed. The 2 larger petals obtusely trilobate. *L. a Willd.* i. 704. *L. sp.* 181. *Hort. kew.* i. 168. *Gouan. hort.* 74. In several places about Montpelier;—*monsp.* 173. *Sibth. prodr. n.* 377.

H. siliquis articulatis incurvis erectis. *Magn. hort.* 101.

H. latiore folio. *Boerh.* i. 307.

Hypecoum. *Magn. monsp.* 134.

Hypecoon. *Clus. hisp.* 407, in the south of France, about Salamanca, and throughout Castile, Granada and Murcia; *repr. in Dod.* 446,

H. legitimum. *Clus. hist.* ii. 93, &

Cuminum corniculatum, sive H. Clusii. *Ger. by Johns.* 1067.

Cuminum sylvestre, II Matthioli. *Dalech.* 697, the drawing probably made from a specimen gathered by J. Bauhine at Baleruch near Montpelier.

H. siliquosum. *Bauh. J.* ii. 899. (The fig. is Papaver amplexicaule.)

H. legitimum Clusii. *Park. theatr.* 371. *Raii hist.* 1328. Near Messina in Sicily.

Native of Greece, Italy, Spain, and the south of France.

HYPECOUM. Boerh. 387.

Hypecoon. *Dale* 268.

Υπηκοον. *Diosc. l.* 4. *c.* 68.

TETRAGYNIA.

107. ILEX.

Calyx quadridentate. *Corolla* rotate. *Style* none. *Berry* tetraspermous. *L.*

1. ILEX *Cassine*. Leaves lanceolate, and lanceolato-oblong, serrato-dentate, and margin nearly entire, evergreen, distant, alternate; teeth acuminate. *Obs.* 8045. In Mr. Knowlton's garden.—*Hort. kew.* i. 170.

α *dentata*. Leaves lanceolato-oblong, serrato-dentate, glabrous. *Obs.* 8045. *Hort. kew.* i. 170 α

I. Cassine. *L. sp.* 181.

Agrifolium carolinense, foliis dentatis, baccis rubris. *Catesb.* i. 31. *t.* 31. In fruit.

CASSINE. Schoepf 17.

Cassina. *Linn.* 59.

β *integerrima*. Leaves mostly entire at the margin; costa villose underneath. *Obs.* 8337. Specimen gathered in Fothergill's garden.

I. Cassine angustifolia. *Hort. kew.* i. 170.

I. Dahoon. *Walt. carol.* 241. *Michaux* ii. 228.

2. ILEX *vomitoria*. Leaves oblong, bluntish, crenato-serrate, distant, alternate; serratures without spines. *H. K.* i. 170.

I. Cassena. *Michaux* ii. 229.

Cassine vera floridanorum, arbuscula baccifera, alaterni ferme facie, foliis alternatim sitis, tetrapyrene. *Pluk. mant.* 40. *t.* 376. *f.* 2. No fructi-

fications. Leaves acute.—*Catesb.* ii. 57. *t.* 57. In fruit. Leaves acute.

Arbor non spinosa. *Gron. virg.* 22.

Native of Florida, South and North Carolina, and Virginia.

CASSINE. Vog. 97.

Cassina. *Dale* 319.

Arbor non spinosa. *Schoepf* 17.

I. vomitoria. *Bart.* 38.

Cassena. *Coxe* 369.

3. ILEX *Aquifolium.* Leaves elliptic, spinose and entire at the margin, shining, undulate. Flowers axillary, and internodial, mostly umbellate. *Obs.* 5337. Specimen gathered at Corby castle near Carlisle.—*L. sp.* 181. *Bot. arrang.* 168. *Walc. t. Smith brit.* 192; *engl. t.* 496. *Fl. dan. t.* 508. *Sibth. prodr. n.* 379.

Agrifolium. *Raii hist.* 1622; *syn.* 466. *Dod.* 746. *Ger. by Johns.* 1338, *repr. from*

Aquifolium, sive Agrifolium. *Lob. ic.* ii. 153.

Aquifolium sive Agrifolium vulgo. *Bauh. J.* i. *b.* 114. No fig.—*Tourn. paris.* 392. *Vaill. paris.* 15.

Aquifolia. *Trag.* 1067.

Aquifolium. *Dalech.* 147, (misprinted 247.)

Agrifolium sive Aquifolium. *Park. theatr.* 1487.

Aquifolium folio levi et aculeato toto. *Park. theatr.* 1487.

The Holly Tree. *Evel. by Hunt. ed.* ii. *t. at* i. *p.* 262.

α *rubra.* Berries red. *Obs.* 5338. Near Worcester.

I. Aquifolium vulgaris. *Hort. kew.* i. 169.

I. Aquifolium heterophylla. *Hort. kew.* i. 169.

Aquifolium baccis rubris. *Boerh.* ii. 219.

Native of Europe from Greece and Italy to Scotland and Denmark.

AQUIFOLIUM. Geoffr. iii. 107. *Murr.* iv. 10. *Schoepf* 16.

Agrifolium. *Dale* 322. *Lew. disp. by Dunc.* 342.

I. Aquifolium. *Bandelow, account from in phys. journ.* ii. 466. *Ploucq. bibl.* i. 131. 193. 484.

Houx. *Chom.* 733; *suppl.* 199.

VISCUM aucuparium. *Berg.* 77.

β *nigra.* Berries black. *From*

ILEX Aquifolium. *Lour.* i. 114.

108. MYGINDA.

Calyx quadripartite. *Petals* 4. *Drupe* globular. *L.*

1. MYGINDA *uragoga.* Leaves subcordate, acuminate, subserrate, pubescent. *Swartz. prodr.* 39; *ind. occid.* 341. *L. sp.* 1661.

MYGINDA uragoga. *Jacq. amer.* 24. *t.* 16; *the descr. repr. in* 8vo *ed.* 31.

Class

Class 5.

PENTANDRIA.

Order 1.

MONOGYNIA.

1. *Flowers monopetalous, inferior, monospermous.* L.

134. MIRABILIS.	*Nut* invested by the base of the corolla. *Stigma* globular. *Stamina* united at the base. *Obs.* 5200.
133. PLUMBAGO.	*Capsule* monospermous. *Stigma* quinquefid.

2. *Flowers monopetalous, inferior, tetraspermous.* L.

119. ECHIUM.	*Corolla*, throat open; limb irregular. *Obs.* 4055.
109. HELIOTROPIUM.	*Corolla* with an open throat, hypocrateriform, with plaits between the segments. *Obs.* 5378.
114. PULMONARIA.	*Corolla* with an open throat; infundibuliform. *Obs.* 1319.

116. ONOSMA.	*Corolla* with an open throat, campanulate and tubiform. *Obs.* 8058.
111. LITHOSPERMUM.	*Corolla* with 5 oblong prominences in the throat, infundibuliform. *Obs.* 5741.
115. SYMPHYTUM.	*Corolla* with 5 subulate prominences in the throat, infundibuliform. *Obs.* 202.
117. BORAGO.	*Corolla* with 5 emarginate appendages in the throat, rotate and hypocrateriform. *Obs.* 4496. 1315.
118. LYCOPSIS.	*Corolla*, throat closed by 5 appendages; tube curvate. *Obs.* 3955.
113. CYNOGLOSSUM.	*Corolla*, throat closed by 5 appendages. *Seeds* depressed. *Obs.* 4797.
112. ANCHUSA.	*Corolla*, throat closed by 5 appendages. *Seeds* hollowed out at the base. *Obs.* 6387.
110. MYOSOTIS.	*Corolla*, throat with 5 appendages; segments of the limb emarginate. *Obs.* 3818.

3. *Flowers monopetalous, inferior. Seeds in a pericarpium.* L.

207. ACHYRANTHES.	*Capsule* monospermous, not opening. *Corolla* quinquepartite. *Calyx* pentaphyllous. *Obs.* 6966.

208. CELOSIA.	*Capsule* unilocular, cut round, polyspermous. *Corolla* semi-quinquefid. *Calyx* pentaphyllous. *Obs.* 6507.
157. CORIS.	*Capsule* unilocular, quinquevalve. *Corolla* irregular. *Stigma* capitate. *L.*
127. HYDROPHYLLUM.	*Capsule* unilocular, bivalve. *Corolla* with 5 lamellar nectaria. *Stigma* bifid. *Obs.* 7784.
122. CORTUSA.	*Capsule* unilocular, quinquevalve. *Corolla* infundibuliform. *Stigma* subcapitate. *Obs.* 7296.
129. ANAGALLIS.	*Capsule* unilocular, cut round. *Corolla* rotate.
128. LYSIMACHIA.	*Capsule* unilocular, quinquevalve and decemvalve. *Corolla* rotate. *Obs.* 3089.
124. CYCLAMEN.	*Capsule* unilocular, pulpy within. *Corolla* reflex. *Stigma* acute. *L.*
123. SOLDANELLA.	*Capsule* unilocular. *Calyx* lacerate. *Stigma* simple. *L.*
121. PRIMULA.	*Capsule* unilocular. *Corolla* hypocrateriform, and infundibuliform; throat open. *Stigma* globular. *Obs.* 4733.
125. MENIANTHES.	*Capsule* unilocular. *Corolla* infundibuliform, hirsute on the inner side. *Stigma* bifid. *Obs.* 4475.

126. LIMNANTHES.	*Capsule* unilocular. *Corolla* rotate; segments denticulate. *Obs.* 4474.
218. ALLAMANDA.	*Capsule* unilocular, bivalve, orbicular; valves boatshaped. *Seeds* imbricate.
172. CHIRONIA.	*Capsule* unilocular, apparently bilocular. *Corolla* infundibuliform. *Pistil* declinate. *Stigma* obtuse. *Obs.* 6498.
132. LISIANTHUS.	*Capsule* bilocular; margins of the valves involute. *Corolla* infundibuliform, ventricose. *Style* permanent. *Stigma* bilamellate. *Seeds* numerous.
130. SPIGELIA.	*Capsule* bilocular, didymous. *Corolla* infundibuliform. *Stigma* simple. *L.*
131. OPHIORHIZA.	*Capsule* bilocular, bipartite. *Corolla* infundibuliform. *Stigma* bifid. *L.*
159. DATURA.	*Capsule* bilocular, quadrivalve. *Corolla* infundibuliform. *Calyx*, the upper half deciduous.
160. HYOSCYAMUS.	*Capsule* bilocular, operculate. *Corolla* infundibuliform. *Stigma* capitate. *L.*
161. NICOTIANA.	*Capsule* bilocular. *Corolla* infundibuliform. *Stigma* emarginate. *L.*

158. VERBASCUM. *Capsule* bilocular. *Corolla* rotate. *Stigma* obtuse. *Stamina* declinate. *L.*

135. CONVOLVULUS. *Capsule* bilocular, trilocular and quadrilocular. *Corolla* campanulate, plicate. *Stigmata* 2, and trilobate. *Seeds* solitary. *Obs.* 3089.

136. IPOMOEA. *Capsule* trilocular. *Corolla* infundibuliform. *Stigma* capitate. *L.*

137. POLEMONIUM. *Capsule* trilocular. *Corolla*, mouth of the tube closed by the base of the stamina. *Stigmata* 3. *Obs.* 7103.

220. NERIUM. *Follicles* 2. *Corolla* with a double limb. *Seeds* plumose. *Obs.* 5913.

221. ECHITES. *Follicles* 2. *Corolla* infundibuliform. *Seeds* pappose.

222. PLUMERIA. *Follicles* 2. *Seeds* with a membranaceous border.

223. TABERNAEMONTANA. *Follicles* 2, pulpy. *Corolla* hypocrateriform. *Seeds* naked. *L.*

219. VINCA. *Follicles* 2. *Corolla* hypocrateriform. *Seeds* naked. *Obs.* 2705.

214. CERBERA. *Drupe* monospermous. *Nut* bilocular, quadrivalve. *From L.*

179. BUMELIA. *Drupe* monospermous. *Corolla* quinquefid; segments

	with a smaller segment on each side. *Nectaria* 5, inserted into the tube of the corolla. *From Swartz.*
175. CORDIA.	*Drupe* monospermous. *Nut* quadrilocular. *Stigmata* 4. *Calyx* growing to the drupe. *Corolla* infundibuliform. *Obs.* 8477.
176. VARRONIA.	*Drupe* monospermous. *Nut* quadrilocular, and unilocular. *Stigmata* 4. *Corolla* tubular. *Obs.* 5582.
211. RAUVOLFIA.	*Drupe* dispermous. *Nuts* bilocular.
174. BOURERIA.	*Drupe* tetraspermous, separating into 4 parts. *Nuts* bilocular.
168. IGNATIA.	*Drupe* polyspermous. *Corolla* infundibuliform; tube very long. *Willd.*
173. ERETIA.	*Drupe* bilocular. *Nuts* bilocular, 2 in each cell.
212. PAEDERIA.	*Berry* dispermous, inflated, brittle. *L.*
167. STRYCHNOS.	*Berry* unilocular, with from 1 to 5 seeds, with a hard rind. *Stigma* capitate.
196. LEA.	*Berry* unilocular, pentaspermous. *Corolla* quinquefid. *Nectarium* quinquefid. *Stamina* inserted into the nectarium.

178. SIDEROXYLUM.	*Berry* unilocular, pentaspermous. *Corolla* decemfid, the inner segments connivent.
195. DARTUS.	*Berry* unilocular, polyspermous, diaphanous. *Corolla* campanulate. *Stigma* quinquelobate. *From Lour.*
171. OPHIOXYLUM.	*Berry* bilocular, didymous; cells monospermous. *Corolla* tubiform, quinquefid at the end. *Calyx* pentaphyllous. *Obs.* 7866.
120. TOURNEFORTIA.	*Berry* bilocular, pierced at the end; cells dispermous. *Willd.*
166. CAPSICUM.	*Berry* bilocular, juiceless. *Corolla* rotate. *Antherae* connivent. *Obs.* 6485.
165. SOLANUM.	*Berry* bilocular. *Corolla* rotate. *Antherae* mostly coherent, and opening at the end by 2 pores. *Obs.* 6483.
164. PHYSALIS.	*Berry* bilocular. *Corolla* rotate and campanulate. *Antherae* connivent. *Calyx* of the fruit inflated. *Obs.* 6048.
162. ATROPA.	*Berry* bilocular. *Corolla* campanulate. *Stamina* distant, incurvate. *L.*
170. LYCIUM.	*Berry* bilocular, polyspermous. *Corolla* tubular, closed by hairs.
213. CARISSA.	*Berry* bilocular; cells disper-

mous and tetraspermous. *Corolla* infundibuliform. *Seeds* compressed. *From authors.*

169. CESTRUM. *Berry* bilocular, polyspermous. *Corolla* infundibuliform. *Seeds* roundish. *Obs.* 5439.

163. NICANDRA. *Berry* trilocular, quadrilocular and quinquelocular. *Corolla* campanulate. *Calyx* quinquepartite, with 5 angles projecting backwards. *Obs.* 6047.

197. ARGYREIA. *Berry* quadrilocular, monospermous and dispermous. *Corolla* quinquepartite, plicate. *Calyx* pentaphyllous. *From Lour.*

177. CHRYSOPHYLLUM. *Berry* decemlocular. *Seeds* solitary. *Corolla* quinquefid. *Stigma* quinquecrenate. *Obs.* 5580.

4. *Flowers monopetalous, superior.* L.

141. SAMOLUS. *Capsule* unilocular, quinquevalve at the end. *Corolla* hypocrateriform. *Stigma* capitate. *L.*

156. MUSSAENDA. *Capsule* bilocular, polyspermous. *Calyx* quinquefid. *Seeds* in 4 rows.

145. CINCHONA. *Capsule* bilocular, bivalve, polyspermous. *Calyx* quin-

	quedentate. *Dissepiment* inserted into the edges of the valves. *Obs.* 2556.
143. PORTLANDIA.	*Capsule* bilocular, bivalve, pentagonal; dissepiment inserted into the sides of the valves. *Calyx* pentaphyllous. *Obs.* 2312.
139. PHYTEUMA.	*Capsule* bilocular and trilocular, perforate. *Corolla* quinquepartite; segments linear. *Stigma* bifid and trifid. *Obs.* 4627.
138. CAMPANULA.	*Capsule* trilocular, quinquelocular, and sexlocular, perforate. *Corolla* campanulate and rotate. *Stigma* trifid and quinquefid. *Obs.* 6501.
140. LOBELIA.	*Capsule* bilocular, trilocular, quadrilocular and quinquelocular. *Corolla* cloven longitudinally along the upper side. *Antherae* united into a cylinder. *Obs.* 2963.
144. SCAEVOLA.	*Drupe* monospermous. *Corolla* irregular, flabelliform, with a longitudinal fissure. *L.*
151. MORINDA.	*Berry* monospermous. *Stigma* bifid. *Corolla* infundibuliform.
149. PSYCHOTRIA.	*Berry* dispermous. *Corolla* hypocrateriform. *Stigma* bipartite. *Obs.* 8485.

150. ANTHERURA. *Berry* dispermous. *Corolla* rotate. *Antherae* caudate. *Stigma* simple. *From Lour.*

148. VANGUERIA. *Berry* tetraspermous and pentaspermous. *Corolla* hypocrateriform; tube globular; throat hairy. *L. a Willd.*

147. CHIOCOCCA. *Berry* bilocular. *Seeds* solitary. *Corolla* infundibuliform. *Stigma* simple. *Obs.* 5479.

146. COFFEA. *Berry* bilocular. *Seeds* solitary, arillate. *Corolla* hypocrateriform. *Stigma* bipartite. *Obs.* 7979.

215. CANTHIUM. *Berry* bilocular; cells monospermous. *Corolla* infundibuliform. *Stamina* not projecting.

216. GENIPA. *Berry* bilocular; cells polyspermous. *Corolla* infundibuliform. *Calyx* entire. *From Plum.*

217. GARDENIA. *Berry* unilocular, bilocular, and quadrilocular, polyspermous. *Corolla* infundibuliform and hypocrateriform. *Calyx* with 5 divisions. *From L.*

152. LONICERA. *Berry* bilocular and trilocular, polyspermous. *Corolla* unequal. *Stigma* capitate.

153. TRIOSTEUM. *Berry* trilocular; cells mon-

	ospermous. *Corolla* nearly equal. *Stigma* oblong.
155. ERITHALIS.	*Berry* decemlocular. *Corolla* rotate. *Calyx* quinquedentate.

5. *Flowers pentapetalous, inferior.* L.

201. AEGICERAS.	*Capsule* unilocular, univalve, monospermous, bowed. *Calyx* quinquefid. *Willd.*
189. VIOLA.	*Capsule* unilocular, trivalve. *Corolla* irregular, calcarate. *Calyx* pentaphyllous. *Antherae* coherent. *Willd.*
190. IMPATIENS.	*Capsule* unilocular, quinquevalve. *Corolla* irregular, calcarate; petals 5 and 3. *Calyx* diphyllous. *Obs.* 5896.
142. NAUCLEA.	*Capsule* bilocular, polyspermous. *Corolla* infundibuliform.
188. HOVENIA.	*Capsule* trilocular; cells monospermous. *Stigmata* 3. *From L. a Willd.*
186. NEUHOFIA.	*Capsule* trilocular, polyspermous. *Calyx* campanulate; tube permanent; teeth deciduous. *From Lour.*
185. CELASTRUS.	*Capsule* trilocular; cells with 1, 2, and several seeds. *Obs.* 5614.
184. SCOPOLIA.	*Capsule* berrylike, quinquelo-

		cular; cells monospermous. *Stigma* capitate. *L. a Willd.*
187.	EUONYMUS.	*Capsule* pentacoccous and tetracoccous; cells with 1 and 2 seeds. *Obs.* 3735.
183.	CEANOTHUS.	*Berry* dry, tricoccous; cells monospermous. *Petals* inserted into the calyx. *Obs.* 5616.
180.	RHAMNUS.	*Capsule* or *berry* with from 2 to 5 seeds. *Calyx* campanulate. *Petals* 5, 4, or none, inserted into the calyx. *Obs.* 358.
200.	BOTRYA.	*Berry* unilocular, monospermous. *Calyx* campanulate. *Style* none. *Stigma* concave. *From Lour.*
199.	VITIS.	*Berry* unilocular, with from 1 to 5 seeds. *Style* none. *Germen* quinquelocular and bilocular. *Obs.* 6058.
193.	MANGIFERA.	*Drupe* monospermous. *Calyx* pentaphyllous. *Stamina* 3 and 4 barren.
181.	ZIZYPHUS.	*Drupe* monospermous and dispermous. *Nut* bilocular. *Calyx* monophyllous.
192.	ELAEODENDRUM.	*Drupe* monospermous. *Nut* bilocular. *Calyx* pentaphyllous.
191.	VALKERIA.	*Drupes* 5, monospermous. *Calyx* quinquepartite. *L. & W.*

6. *Flowers pentapetalous, superior.* L.

202. LAGOECIA.	*Seed* 1. *Petals* with 2 horns. *Calyx* with multifid segments.
182. GOUANIA.	*Capsule* trilocular, cells monospermous. *Petals* inserted into the calyx.
194. RIBES.	*Berry* polyspermous. *Petals* inserted into the calyx. *Style* bifid. *L.*
198. HEDERA.	*Pomum* with from 3 to 5 cells. *Calyx* semisuperior. *Stigma* simple. *Obs.* 4176.

7. *Flowers incomplete, inferior.* L.

209. GOMPHRENA.	*Capsule* monospermous, cut round. *Obs.* 5135.
206. HERNIARIA.	*Capsule* monospermous, scarcely opening. *Calyx* quinquepartite. *Seed* orbicular, vertical. *Obs.* 6518.
204. ILLECEBRUM.	*Capsule* monospermous, quinquevalve. *Calyx* pentaphyllous. *Obs.* 6513.
205. POLIUM.	*Capsule* unilocular, polyspermous. *Calyx* decaphyllous. *From Lour.*
210. CERATONIA.	*Legumen.* *Calyx* quinquefid. *Stamina* 5 to 7. *Obs.* 3275.

8. *Flowers incomplete, superior.* L.

154. CONOCARPUS.	*Capsule* monospermous, not opening. *Calyx* quinquefid.

203. MUZA.	*Berry* trilocular. *Calyx* diphyllous. *Obs.* 5362. 8569.

Order 2.

DIGYNIA.

1. *Flowers monopetalous, inferior.* L.

241. GENTIANA.	*Capsule* unilocular, bivalve. *Corolla* rotate, campanulate, infundibuliform and hypocrateriform. *Calyx* quinquepartite. *Obs.* 4461.
240. SWERTIA.	*Capsule* unilocular, bivalve. *Corolla* rotate, with nectariferous pores at the base of the segments. *Calyx* quinquepartite.
236. CRESSA.	*Capsule* unilocular, bivalve. *Corolla* hypocrateriform; limb reflex. *Calyx* pentaphyllous.
231. STAPELIA.	*Follicles* 2. *Corolla* rotate. *Nectaria* stellate. *L.*
229. CYNANCHUM.	*Follicles* 2. *Corolla* rotate. *Nectarium* cylindric. *L.*
226. PERIPLOCA.	*Follicles* 2. *Corolla* rotate. *Nectarium* quinquefid; segments filiform at the end. *Obs.* 5561.

228. ASCLEPIAS. *Follicles* 2. *Corolla* rotate. *Nectarium* infundibuliform. *Antherae* bilocular. *Pollen* none. *Glands* 5, bilobate, filling the antherae. *Obs.* 3997.

224. URCEOLA. *Follicles* 2. *Seeds* immersed in a pulp. *Corolla* urceolate.

230. CEROPEGIA. *Follicles* 2. *Corolla* infundibuliform. *Nectarium*, *stamina*, and *pistil* as in Asclepias. *From Roxb.*

225. APOCYNUM. *Follicles* 2. *Corolla* campanulate, with 5 triangular appendages at the base on the inner side. *Nectaria* 5, ovate, glandular. *Obs.* 1373.

227. PERGULARIA. *Follicles* 2. *Corolla* hypocrateriform. *Nectaria* 5, semisagittate. *L.*

2. *Flowers pentapetalous, inferior.* L.

239. HEUCHERA. *Capsule* bilocular, birostrate. *Petals* inserted into the calyx. *Willd.*

3. *Flowers pentapetalous, superior, dispermous, sessile or subumbellate.*

Calyx in this and section 4, 5 and 6 frequently obsolete.

242. ERYNGIUM. *Seeds* covered with scariose squamae. *Calyx* pentaphyllous. *Obs.* 4522.

243. HYDROCOTYLE.	*Fruit* orbicular. *Seeds* semi-orbicular, united by their margins. *Obs.* 7849.
246. ECHINOPHORA.	*Seeds* covered by the indurated involucellum. *Marginal flowers* barren; *central flower* sessile. *From Juss.*

4. *Flowers pentapetalous, superior, dispermous, umbellate, with involucra and involucella.*

244. ASTRANTIA.	*Flowers* abortive. *Involucra* coloured; *Fruit* costate; costae serrate. *Obs.* 1675.
260. HERACLEUM.	*Flowers* radiate, abortive. *Fruit* compressed, oval, emarginate. *Seeds* bordered, tricostate in the middle. *Obs.* 5149.
267. OENANTHE.	*Flowers* radiate, those of the radius abortive. *Calyx* quinquepartite. *Seeds* crowned, striate. *Obs.* 4049.
248. CAUCALIS.	*Flowers* radiate, abortive. *Seeds* hispid. *Calyx* quinquedentate. *Obs.* 675.
249. ARTEDIA.	*Flowers* radiate, abortive. *Involucrum* pinnate. *Fruit* with a deeply crenate border.
247. TORDYLIUM.	*Flowers* radiate, fertile. *Involucrum* simple. *Fruit* orbicular; border elevated, crenate. *Obs.* 4969.

259. LASERPITIUM.	*Flowers* flosculose, abortive. *Petals* emarginate. *Seeds* with winged angles. *Obs.* 5038.
255. PEUCEDANUM.	*Flowers* flosculose, abortive. *Seeds* bordered, sulcate in the middle. *Petals* entire. *Obs.* 7725.
250. AMMI.	*Flowers* flosculose, fertile. *Involucrum* pinnate. *Fruit* striate. *Petals* emarginate.
252. CONIUM.	*Flowers* flosculose, fertile. *Petals* cordate. *Seeds* gibbose, costato-sulcate; costae crenate. *Involucella* dimidiate.
251. BUNIUM.	*Flowers* flosculose, fertile. *Petals* cordate. *Involucella* setaceous. *Fruit* ovate.
254. ATHAMANTA.	*Flowers* flosculose, fertile. *Petals* emarginate. *Seeds* ovato-oblong. *Obs.* 4660.
245. BUPLEURUM.	*Flowers* flosculose, fertile. *Petals* entire. *Fruit* slightly compressed, striate. *Obs.* 4657.
263. SIUM.	*Flowers* flosculose, fertile. *Petals* emarginate. *Seeds* costate. *Obs.* 4658.
253. SELINUM.	*Flowers* flosculose, fertile. *Petals* emarginate. *Seeds* flat, bordered, with 3 ridges in the middle. *Obs.* 5033.

266. CUMINUM. *Flowers* flosculose, fertile. *Petals* emarginate. *Seeds* tricostate, with 4 alternate hispid ridges. *Obs.* 7729.

258. FERULA. *Flowers* flosculose, fertile. *Petals* entire. *Seeds* tricostate, flat. *Obs.* 7694.

256. CRITHMUM. *Flowers* flosculose, fertile. *Petals* entire. *Fruit* oval, compressed, striate. *From L.*

265. BUBON. *Flowers* flosculose, fertile. *Petals* lanceolate. *Calyx* quinquedentate. *Fruit* ovate, striate. *From L.*

257. CACHRYS. *Flowers* flosculose, fertile. *Petals* entire. *Fruit* with a corklike rind. *From L.*

261. LIGUSTICUM. *Flowers* flosculose, fertile. *Petals* entire. *Seeds* sulcate. *Obs.* 7688.

262. ANGELICA. *Flowers* flosculose, fertile. *Petals* entire. *Seeds* bordered, convex, with 3 membranaceous angles.

264. SISON. *Flowers* flosculose, fertile. *Petals* entire. *Seeds* costate. *Obs.* 6317.

5. *Flowers pentapetalous, superior, dispermous, umbellate, with involucella.*

270. AETHUSA. *Flowers* subradiate, fertile. *Seeds* sulcate. *Obs.* 5140.

271. CORIANDRUM. *Flowers* radiate, abortive. *Fruit* spherical or didymous. *Petals* bipartite.

272. SCANDIX. *Flowers* radiate, abortive. *Petals* emarginate. *Seeds* rostrate. *Obs.* 121.

273. MYRRHIS. *Flowers* radiate. *Petals* emarginate. *Seeds* oblong, sulcate and striate. *Obs.* 7704.

274. CHAEROPHYLLUM. *Flowers* flosculose, abortive. *Seeds* oblong, attenuate, smooth. *Obs.* 5894.

268. PHELLANDRIUM. *Flowers* flosculose, fertile. *Petals* obcordate. *Calyx* quinquedentate. *Fruit* smooth. *Obs.* 5048.

275. SESELI. *Flowers* flosculose, fertile. *Petals* emarginate. *Seeds* sulcate. *Obs.* 7712.

269. CICUTA. *Flowers* flosculose, fertile. *Petals* ovate. *Calyx* quinquepartite. *Fruit* sulcate. *Obs.* 7482.

6. *Flowers pentapetalous, superior, dispermous, umbellate; without involucra and involucella.*

278. SMYRNIUM. *Flowers* flosculose, abortive. *Petals* lanceolate. *Seeds*, the outer side with 3 angles, the inner edge acute. *Obs.* 5159.

280. CARUM. *Flowers* flosculose, abortive. *Petals* emarginate. *Seeds* quinquecostate. *Obs.* 5741.

276. THAPSIA. *Flowers* flosculose, fertile. *Seeds* emarginate, with a membranaceous border. *L.*

277. PASTINACA. *Flowers* flosculose, fertile. *Seeds* bordered, compressed, even, tricostate in the middle. *Petals* entire. *Obs.* 3060.

279. ANETHUM. *Flowers* flosculose, fertile. *Petals* entire. *Seeds* bordered, flat, on the outerside convex, sulcato-tricostate in the middle. *Obs.* 7705.

282. APIUM. *Flowers* flosculose, fertile. *Petals* entire. *Seeds* costate. *Obs.* 5028.

281. PIMPINELLA. *Flowers* flosculose, fertile. *Petals* emarginate. *Seeds* quinquecostate. *Obs.* 5152.

7. *Flowers pentapetalous, superior. Seeds in a pericarpium.*

283. PANAX. *Berry* bilocular; cells monospermous.

8. *Flowers incomplete.* L.

232. CHENOPODIUM. *Seed* 1, lenticular, horizontal. *Calyx* pentaphyllous.

233. ATRIPLEX.	*Seed* 1, lenticular, that of the hermaphrodite flowers horizontal; that of the female flowers vertical. *Calyx* of the hermaphrodite flowers pentaphyllous, that of the female flowers diphyllous.
234. BETA.	*Capsule* monospermous. *Calyx* quinquepartite. *Seed* reniform. *Obs.* 4472.
235. SALSOLA.	*Capsule* monospermous. *Calyx* pentaphyllous. *Seed* cochleate.
237. ULMUS.	*Capsule* monospermous, compressed, with a membranaceous border. *Calyx* quinquefid and sexfid. *Obs.* 2678.
238. CELTIS.	*Drupe*. *Calyx* quinquepartite and sexfid.

Order 3.

TRIGYNIA.

1. *Flowers inferior*. L.

290. TAMARIX.	*Petals* 5. *Capsule* unilocular. *Seeds* pappose. *Style* none. *Obs.* 3733.
293. SAROTHRA.	*Petals* 5. *Capsule* unilocular. *Styles* 3.

289. STAPHYLEA.	*Petals* 5. *Capsules* 3 and 2, connate. *Obs.* 260.
285. RHUS.	*Petals* 5. *Berry* monospermous. *L.*
284. ANACARDIUM.	*Petals* 5. *Drupe* cordate, cellular, monospermous. *L. fil.*
287. PALIURUS.	*Petals* 5. *Drupe* dry, with a circular wing round the middle. *Nut* with 3 and 4 cells. *Obs.* 5610.
291. PHARNACEUM.	*Petals* 5, or none. *Calyx* pentaphyllous. *Capsule* trilocular. *From L.*
292. BASELLA.	*Corolla* none. *Calyx* septemfid, becoming a berry. *Seed* 1.

2. *Flowers superior.* L.

286. VIBURNUM.	*Corolla* quinquefid. *Berry* monospermous. *L.*
288. SAMBUCUS.	*Corolla* quinquefid. *Berry* trispermous. *L.*

Order 4.

TETRAGYNIA.

295. EVOLVULUS.	*Corolla* monopetalous. *From L.*
294. PARNASSIA	*Petals* 5. *Nectaria* 5, ciliate; hairs globiferous.

Order 5.

PENTAGYNIA.

1. *Flowers inferior.* L.

297. STATICE.	*Corolla* quinquepartite. *Seed* 1.
301. CRASSULA.	*Corolla* quinquepartite. *Capsules* 5, polyspermous. *L.*
299. DROSERA.	*Petals* 5. *Capsule* unilocular, opening at the end. *L.*
298. LINUM.	*Petals* 5. *Capsule* decemlocular; cells monospermous. *Obs.* 4146.
300. GISEKIA.	*Corolla* none. *Calyx* pentaphyllous. *Capsules* 5; cells monospermous.

2. *Flowers superior.* L.

296. ARALIA.	*Petals* 5. *Berry* quinquelocular. *Obs.* 4177.

Order 6.

POLYGYNIA.

302. MYOSURUS.	*Petals* 5. *Calyx* pentaphyllous. *Obs.* 5453.
303. XANTHOXYLUM.	*Petals* 5, or none. *Capsule* pentacoccous. *Obs.* 2314.

304. Xanthorhiza. *Petals* 5. *Capsules* several. *Obs.* 5383.

MONOGYNIA.

109. HELIOTROPIUM.

Corolla hypocrateriform, quinquefid, with plaits interposed; throat open. *Nuts* 4. *Obs.* 5378. *L.*

1. HELIOTROPIUM *indicum.* Leaves cordato-ovate, acute, roughish. Spikes solitary. Fruit bifid. *L. sp.* 187. *Hort. kew.* i. 174. *Swartz. obs.* 54. *Michaux* i. 128. *Mill. Ph. dict. n.* 2.

H. foliis ovatis acutis, spicis solitariis. *Royen* 405.

H. americanum caeruleum, foliis hormini. *Boerh.* i. 190. *Pluk. alm.* 182; *phyt. t.* 245. *f.* 4. *Sloane cat.* 94; *hist.* i. 213. *Herm. prodr.* 340; *hort.* 307.

Aguaraciunha-acu. *Pis. bras.* 109, *repr. in*

Jacua acanga. *Pis. ind.* 229, *and Marcgr.* 7.

Leaves hirsute, the younger rugose underneath. *Fruit* ovate, bifid at the end, the seeds separating into 2 pairs. *Obs.* 8648. Specimen gathered by Dr. Wright in Jamaica.

HELIOTROPIUM indicum. *Lour.* i. 126.

2. HELIOTROPIUM *europaeum.* Leaves oval, entire at the margin, slightly hirsute. Spikes conju-

gate. *Obs.* 8050. Specimen gathered between Paris and Versailles.—*L. sp.* 187. *Hort. kew.* i. 175. *Jacq. austr.* iii. *t.* 207. *Krock. n.* 268.

H. majus Dioscoridi. *Tourn. paris.* 96. *Vaill. paris.* 96. *Boerh.* i. 190.

Heliotropium. *Dod.* 70, *repr. in*

H. majus et Herba cancri. *Lob. ic.* i. 160, *cop. in*

H. majus, flore albo. *Bauh. J.* iii. 604, *and repr. in*

H. majus. *Ger. by Johns.* 334. *Dalech.* 1350. *Raii hist.* 501; *europ.* 141. In Sicily, Italy, the south of France, and about Mentz.—*Park. theatr.* 438.

Native of the south of Europe, Austria, the Palatinate, and as far north as Paris and Mentz.

HELIOTROPIUM majus. *Chom.* 650; *suppl.* 182. *Dale* 138.

Heliotropium. *Geoffr.* iii. 550.

8. HELIOTROPIUM *supinum*. Leaves ovate, obtuse, entire at the margin. Spikes solitary. *From L. sp.* 187, *and Gouan. monsp.* 17. *t. at p.* 1. Near Montpelier.—*Hort. kew.* i. 175. *Clus. hisp.* 394, in melon grounds near Salamanca; *repr. in hist.* ii. 47, *and Dod.* 70, *cop. in*

H. humi sparsum. *Dalech.* 1352, *& repr. in*

H. supinum Clusii et Lobelii. *Ger. by Johns.* 335. *Raii hist.* 501.

H. minus supinum. *Boerh.* i. 191.

H. minus quorundam, sive supinum. *Bauh. J.* iii. 605. No fig.

Verrucaria alia minor. *Dalech.* 1351.

HELIOTROPIUM minus. *Dale* 138.

110. MYOSOTIS.

Corolla hypocrateriform; the throat surrounded with 5 sacklike prominences. *Nuts* 4, imperforate.—*L.*

1. MYOSOTIS *hamosa*. Seeds smooth. Racemi without bracteae. Hairs of the calyx patent, the lower hooked. *Obs.* 3818.

M. arvensis. *Roth germ.* ii. 222. *Sibth. ox.* 68. *L. a Willd.* i. 747.

M. scorpioides arvensis. *L. suec. n.* 157; *sp.* 188. *Bot. arrang.* 188.

M. scorpioides. *Fl. dan. t.* 583, outer fig. *Smith brit.* 212 *α*; *engl. t.* 480, inner fig.

M. hirsuta arvensis major. *L. lapp. n.* 74.

Heliotropium minus angustifolium arvense, seu hirsutum. *Boerh.* i. 190.

Lithospermum arvense minus. *Tourn. paris.* 112. *Vaill. paris.* 119. La plus commune.

M. scorpioides hirsuta. *Raii syn.* 229.

Echium scorpioides solisequum. *Bauh. J.* iii. 589.

Scorpioides tertia. *Dod.* 72, *repr. in*

Alsine Myosotis, sive Auricula muris. *Lob. ic.* i. 461, *&*

M. scorpioides arvensis hirsuta. *Ger. by Johns.* 338, *cop. in*

M. scorpioides hirsuta. *Park. theatr.* 691.

MYOSOTIS scorpioides arvensis. *Coste & Willemet in med. comment.* v. 298.

Echium minimum. *Vog.* 100.

2. MYOSOTIS *adpressa*. Racemi without bracteae. Seeds smooth. Calyces with straight hairs pressed to. *Obs.* 3819. Near water.

M. scorpioides. *L. a Willd.* i. 746. *Fl. dan. t.* 583, inner fig. *Smith brit.* 212 δ; β *engl. t.* 480, outer uncoloured fig.

M. palustris. *Roth germ.* ii. 221. *Sibth. ox.* 68.

M. scorpioides palustris. *L. suec. n.* 157; *sp.* 188. *Bot. arrang.* 189. *Curt. lond.* iii. 13. *t.* 165. *Walc. t. Raii syn.* 229. *Ger. by Johns.* 338, *repr. from.*

M. scorpioides partim repens partim erecta. *Lob. ic.* i. 462, *which cop. in*

M. scorpioides repens. *Park. theatr.* 691.

M. glabra pratensis. *L. lapp. n.* 75.

Heliotropium minus angustifolium palustre, sen glabrum. *Boerh.* i. 191, where it is marked as annual.

Lithospermum palustre minus. *Tourn. paris.* 210.

Lithospermum palustre minus, flore caeruleo. *Vaill. paris.* 119.

Echium scorpioides solisequum flore majore. *Bauh. J.* iii. 589. No fig.

Seeds ovate, obtuse, shining. *Obs.* 3819.

MYOSOTIS scorpioides palustris. *Coste & Willemet in med. comment.* v. 298.

111. LITHOSPERMUM.

Corolla infundibuliform; throat surrounded with 5 oblong prominences. *Calyx* quinquepartite. *Nuts* 4, imperforate.—*L.*

1. LITHOSPERMUM *ochroleucum.* Seeds smooth. Corolla scarcely longer than the calyx. *Obs.* 916. On the sides of roads, in calcareous soils.

L. officinale. *L. suec. n.* 159; *sp.* 189. *Bot. arrang.* 189. *Huds.* 79, on calcareous soil.—*Smith*

engl. bot. t. 134; *brit.* 213, on gravelly and calcareous soil.—*Woodv.* iv. 7. *t.* 213. *Krock. n.* 271.

L. majus erectum. *Tourn. paris.* 283. *Vaill. paris.* 119. *Boerh.* i. 190.

L. minus. *Dalech.* 1176. *Dod.* 83, *repr. in Lob. ic.* i. 457, *Ger. by Johns.* 609, *and cop. in*

L. vulgare minus. *Park. theatr.* 432.

L. sativum. *Fuchs.* 475. *c.* 187, *cop. in*

L. sive Milium solis. *Bauh. J.* iii. 590,

L. Fuchsii. *Dalech.* 1177, *&*

Milium solis. *Trag.* 536, *which repr. in*

Lithospermon. *Cord. fol.* 94. *p.* 1.

LITHOSPERMUM. Alst. ii. 361. *Dale* 138. *Lew.* ii. 73. *Linn.* 60. *Mill. Jos.* 273. *Murr.* ii. 98. *Rutty* 293. *Vog.* 178.

L. erectum. *Geoffr.* iii. 742.

L. majus erectum. *Chom.* 245.

Milium solis. *Herm.* 322. *Spielm.* 654.

2. LITHOSPERMUM *repens.* Seeds smooth. Corolla twice as long as the calyx. *Obs.* 3836. Specimen from Dr. Heise.—*Clus. pann.* 684, *repr. in*

L. repens majus. *Clus. hist.* ii. 143, *Lob. ic.* i. 458, *Ger. by Johns.* 609, *cop. in*

L. vulgare majus. *Park. theatr.* 431, *& repr. in*

L. majus. *Dod.* 83. *Dalech.* 1177.

L. purpureo-caeruleum. *L. sp.* 190. *Bot. arrang.* 190. *Smith engl. bot. t.* 117; *brit.* 214. Found by Dr. Latham near Greenhithe, Kent.—*Jacq. austr. t.* 14.

L. minus repens latifolium. *Boerh.* i. 190.

L. majus Dodonaei, flore purpureo, semine anchusae. *Bauh. J.* iii. 592. (The figure is a Saxifraga.)—*Raii hist.* 503; *syn.* 229. Near Denbigh, and Taunton Somersetshire.

Sedum alpinum minimum foliis cinereis, flore candido. *Bauh. J.* iii. 692, the figure. (The name and description belong to a Sedum.)

Pulmonaria minor. *Dalech.* 1328.

L. anchusae facie. *Lob. ic.* i. 458, *repr. in Ger. by Johns.* 610, *and cop. in Park. theatr.* 432, *and Dalech.* 1179.

LITHOSPERMUM repens. *Geoffr.* iii. 745.

L. majus repens latifolium. *Chom.* 245.

112. ANCHUSA.

Corolla infundibuliform or hypocrateriform; the throat surrounded by 5 sacklike prominences. *Seeds* hollowed out at the base. *Obs.* 6387. 3691. *L.*

Buglossum. *Gaertn.* i. 322. *t.* 67.

1. ANCHUSA *paniculata.* Calyx quinquepartite. Leaves lanceolate. Racemi conjugate. Sacklike prominences penicillate, extending beyond the base of the sinuses and two thirds as long as the limb. *Obs.* 6387. Specimen gathered in Saville's garden.—*Hort. kew.* i. 177. In Madeira.—*Sibth. prodr. n.* 404. In Greece.

A. italica. *Retz. obs.* i. 12. *n.* 15. *Murr. ap. L. a Murr.* 186. *Salisb. W.* 7. *Donn* 33.

Buglossum vulgare angustifolium majus. *Raii europ.* 78.

Buglossum angustifolium majus, flore caeruleo. *Boerh.* i. 188.

Buglossum angustifolium majus. *Tourn.* 251. *Vaill. paris.* 23. *Magn. monsp.* 40.

Buglossum vulgare. *Dalech.* 579. *Raii hist.* 493. About Messina.
Cirsium italicum. *Fuchs.* 418, *ed. fol. cop. in ed. 12mo, 336. c.* 130,
Buglossum vulgare majus. *Bauh. J.* iii. 578, &
Buglossa italica. *Trag.* 232, *which repr. in*
Buglossa longifolia. *Cord. fol.* 135, & *cop. in*
Buglossa vulgaris. *Dod.* 617. *Ger. by Johns.* 798, *repr. from*
Buglossum angustifolium. *Lob. obs.* 310, *which repr. in ic.* i. 576, &
A. Alcibiadion. *Dod.* 618, & *cop. in*
Buglossum minus sativum. *Park. theatr.* 767.
Buglossum. *Park. parad.* 249. No fig.

Corolla half an inch long; prominences oblong, hirsute above; the hairs crowded, cylindric, more than half as long as the prominence. *Obs.* 6387.

BUGLOSSUM. Berg. 79. *Dale* 136. *Geoffr.* iii. 226. *Krock. n.* 274. *Lew.* i. 242; *disp. by Rother.* 119. *Linn.* 60. *Murr.* ii. 99. *Ploucq. bibl.* i. 407. *Spielm.* 355. *Vog.* 125. 153.
Buglossa. *Herm.* 602.
Buglossum hortense. *Mill. Jos.* 95.
Buglose. *Chom.* 98. 74; *suppl.* 28.
(A. officinalis. *Lour.* i. 127, is described as having a red root, and whitish red corollae.)

2. ANCHUSA *angustifolia.* Calyx quinquefid. Sack-like prominences extending half way to the base of the sinuses; and one fourth as long as the limb. Racemi conjugate and simple. Upper leaves ovato-ensiform. *Obs.* 6391. Specimen gathered in Fothergill's garden.—*Hort. kew.* i. 178. *L. sp.* 191. *Salisb. W.* 7. *Mill. Ph. dict. n.* 2. *Sibth. prodr. n.* 405.

Boragine silvestre perenne, di candia, di fiore rosso cremesino, *Zan. ist.* 49. *t.* 20, *repr. in*

Buglossum sylvestre majus nigrum. *Zan. hist.* 57. *t.* 39.

Buglossum minimum, echii facie, flore rubente. *Lob. obs.* 310, *repr. in ic.* i. 576, *&*

A. Alcibiadion. *Ger. by Johns.* 800, *& cop. in*

Buglossum minimum, echii facie, floribus rubentibus. *Park. theatr.* 765.

ANCHUSA angustifolia. *Krock. n.* 275.

3. ANCHUSA *tinctoria.* Calyx quinquepartite. Sack-like prominences obsolete. Leaves linear, acute. *Obs.* 6388. Specimen gathered by M. Broussonett in the south of France or north of Spain.—*L. sp.* 192. *Hort. kew.* i. 179. *Gouan. monsp.* 19. (*Woodv.* 251. *t.* 92, seems rather to be A. angustifolia.)

Lithospermum tinctorum. *Gouan hort.* 80. Near Montpelier.

Lithospermum villosum, caulibus procumbentibus simplicissimis. *Allion. nic.* 12.

A. monspeliana. *Bauh. J.* iii. 584. A good figure excepting that the stamina are represented as longer than the corolla.—*Magn. monsp.* 18. *Raii hist.* 496; *europ.* 62.

A. puniceis floribus. *Magn. hort.* 14.

A. minor purpurea. *Park. theatr.* 516, but the stamina represented as longer than the corolla.

A. minor, seu Alcibiadon, vel Onochiles. *Lob. adv.* 248, *repr. in*

A. parva. *Lob. ic.* i. 578.

(Buglossum minimum echii facie, flore rubente. *Lob. ic.* i. 576, *repr. in*

A. Alcibiadion. *Ger. by Johns.* 800, *& cop. in*

Buglossum minimum, echii facie, floribus rubentibus. *Park, theatr.* 765, has lanceolate leaves and the whole has not the habit of my specimen.)

Root fusiform, 4 inches long, brownish purple, staining the paper which contains the specimen. *Stems* simple, ascending, 5 inches long, hispid. *Leaves* 1½ tenth of an inch broad, hispid; hairs white at the base. *Racemi* terminal, conjugate. *Corolla;* sacklike prominences in one flower very short, transversely semilanceolate, in another flower only one and subulate. *Seed* 1 in a calyx, scabrous. *Obs.* 6388.

ANCHUSA tinctoria. Root. *Pharm. edin.—Alst.* i. 364. *Dale* 136. *Hill* 598. *Lew.* i. 81; *disp. by Dunc.* 143. *Mill. Jos.* 37. *Murr.* ii. 101. *Rutty* 26. *Vog.* 230. *Murr. J.* i. 216.

A. officinalis. *Cartheus.* iv. 93.

Alkanna. *Murr.* ii. 100. *Spielm.* 375.

Alcanna. *Berg.* 80. *Herm.* 163.

Alcanna spuria. *Krock. n.* 276. *Linn.* 61. *Vog.* 230.

Alkanet. *Lew. in Neum.* ii. 88.

113. CYNOGLOSSUM.

Corolla funnelshaped; throat with 5 sacklike appendages. *Nuts* 4, depressed, fixed to the style by the inner side only. *Obs.* 4797. *L.*

1. *Seeds echinate.*

1. CYNOGLOSSUM *officinale.* Corolla longer than stamina, about as long as the calyx. Leaves villose, at length scabrous on the upper surface,

Obs. 7117. On the sides of the road between Pleasly and Mansfield, on brown cos. 21 June.—*L. sp.* 192. *Curt. lond.* iv. 16. *t.* 249. *Bot. arrang.* 192. *Smith brit.* 216; *engl. t.* 921. *Woodv.* iv. 12. *t.* 216. *Scop. carn. n.* 191.

C. vulgare. *Bauh. J.* iii. 598. *Raii hist.* 489.

C. vulgare Matthioli. *Dalech.* 1263, without fructifications.

Cynoglossum. *Raii syn.* 226. *Dod.* 53, *repr. in*

C. vulgare. *Lob. ic.* i. 580, &

C. majus. *Ger. by Johns.* 804, the plant without fructifications *cop. in*

C. maximum montanum. *Park. theatr.* 512, and the plant with fructifications *cop. in*

C. majus vulgare. *Park. theatr.* 511. *Tourn. paris.* 74. Native of cold and temperate climates.—*Vaill. paris.* 44.

Stem striate, villose. *Root leaves* elliptico-lanceolate; *stem leaves* sessile, lanceolate, the upper somewhat ovate at the base, soft, villose, without any white spots either when recent or dried, about an inch from one another. *Racemi* terminating the stem and branches, each with 1 floral leaf; those of the branches simple; those of the stem 3 together with a single flower in the trichotomy. *Floral leaves* ovato-lanceolate, amplexicaul, a little below the lowermost flower. *Calyx*, phylla oblongo-ovate, villose on the outside. *Corolla* just longer than the calyx; limb brownish red, quinquefid, half as long again as the tube; segments roundish; tube grey, tinged here and there with purplish blue; appendages oblong, purple, purplish blue at the end. *Stamina* inserted near the end of the tube of the corolla just below the base of the appendages opposite to the intervals between the appendages. *Obs.* 7117.

CYNOGLOSSUM. Alst. i. 428. *Berg.* 82. *Geoffr.* iii. 394. *Krock. n.* 277. *Lew.* i. 390; *disp.* 152. *Mill. Jos.* 170. *Spielm.* 455. *Vog.* 128. 236.

Cynoglossa. *Dale* 135. *Herm.* 178. *Linn.* 61. *Murr.* ii. 102.

C. majus vulgare. *Chom.* 815. *Rutty* 160.

2. CYNOGLOSSUM *lucidum.* Corolla longer than the stamina, as long as the calyx. Leaves glabrous on the upper surface, scabrous underneath. Bracteae of the peduncles amplexicaul. *Obs.* 7115. Specimen gathered in the garden of Fothergill.

C. virginicum. *L. a Murr.* 186; *sp.* 193.

C. foliis amplexicaulibus ovatis. *Gron. virg.* 24.

C. foliis amplexicaulibus. *Gron. virg. ed.* i. 19.

(C. virginianum virenti folio, floribus et seminibus minoribus. *Hist. ox.* iii. 449. *s.* 11. *t.* 30. *row* 2. *f.* 9, is figured and described as having leaves attenuate at the base.)

Leaves oblongo-lanceolate, acute, sessile, the uppermost semiamplexicaul and amplexicaul; scabrous underneath with white spots composed of minute tubercles, with sometimes a hair proceeding from the center; hairs scattered along the costa. *Calyx*, segments oblong. *Corolla* about as long as the calyx; limb as long again as the tube, quinquefid; segments oblong; appendages one third as long as the limb. *Stamina* inserted into the tube of the coralla one third of the way below the appendages, opposite to the spaces between the appendages. *Seeds* echinate. *Obs.* 7115.

CYNOGLOSSUM. Schoepf 18.

114. PULMONARIA.

Corolla funnelshaped; throat open. *Calyx* with 5 divisions. *Obs.* 1319. *L.*

1. *Calyx as long as the tube of the corolla.* L.

1. PULMONARIA *maculata.* Calyces semiquinquefid, hirsute. Leaves of the barren stems elliptic and cordato-ovate. *Obs.* 5774. In a garden, when it had been in flower some time.—*Obs.* 8063. In a garden.

α *lancifolia.* Leaves lanceolate. *Obs.* 4655. Specimen gathered in Fothergill's garden.

P. angustifolia. *Hort. kew.* i. 181 α *Host.* 89.

P. II angustifolia caeruleo flore. *Clus. pann.* 673. *t.* 674, *repr. in*

P. III austriaca. *Clus. hist.* ii. 169, &

P. angustifolia II Clusii. *Ger. by Johns.* 808, & *cop. in*

P. angustifolia, caeruleo flore. *Bauh. J.* iii. 596. *Tourn. paris.* 521.

P. angustifolia non maculosa, flore caeruleo. *Vaill. paris.* 165. In the forest of St. Germain near Paris.

Buglossa sylvestris. *Trag.* 234, *repr. in*

Anchusa. *Cord. fol.* 93. *p.* 2.

Stem 13 inches high. *Leaves* semiamplexicaul, not spotted, 6 tenths of an inch broad. *Calyces* semiquinquefid *Stamina* inserted just below the villi at the mouth of the tube of the corolla. *Obs.* 4655.

β *ellipticifolia.* Leaves of the barren shoots elliptic. Corolla blue. *Obs.* 5774.

P. angustifolia. *L. suec. n.* 163; *sp.* 194. *Hort. kew.* i. 181 β *Roth germ.* ii. 212. *Pollich. n.*

189. *Bot. arrang.* 194. *Park. parad.* 218. *t.* 251. *Fl. dan.* 483. Leaves without spots.

P. officinalis. *Smith engl. bot. t.* 118, from a plant found by Mr. Robson near Darlington, Durham. Spots of the leaves whitish, distinct. No leaves of the shoots for next year's stems;—*brit.* 217. *Woodv.* iv. 5. *t.* 212 from a plant of British growth, probably the same from which the preceding figure was drawn, with 2 elliptic leaves from the young shoots taken from garden specimens. —*Abbot* 42. Between Thurleigh and Milton-Ernys Bedfordshire.

P. saccharata. *Mill. Ph. dict. n.* 3.

P. foliis radicalibus lanceolatis. *Guett.* ii. 88.

P. foliis echii. *Raii hist.* 489; *syn.* 226. *Vaill. paris.* 165. *Boerh.* i. 193. *Lob. ic.* i. 586, *repr. in Ger. by Johns. ed.* ii. 808,

P. maculosa. *Ger. by Johns. ed.* i. 808, &

P. V pannonica. *Clus. hist.* ii. 170, & *cop. in*

P. rubro flore, foliis echii. *Bauh. J.* iii. 597. In an advanced stage of flowering, in which the flowers appear pedunculate.—*Tourn. paris.* 521.

P. Plinii. *Cord. fol.* 131. *p.* 1. The separate leaf.

Stem when fully grown to 15 inches long. *Leaves* the upper semiamplexicaul, elliptico-lanceolate, 7 tenths of an inch broad, the lower lanceolate, tapering downwards with linear petioles; leaves of the young shoots for next year's stems elliptic, 2 inches broad, with greenish white spots; spots confluent. *Corolla* purplish red before it is expanded, blue afterwards; limb semiquinquefid, with 10 slight depressions at the base; mouth of the tube with 5 tufts of hairs. *Stamina* inserted just above the middle of the tube. *Filaments* very short. *Obs.* 5774.

PULMONARIA angustifolia. *Geoffr. suite* ii. 109.

P. foliis echii. *Chom.* 86. *Dale* 135.

γ *cordifolia.* Leaves of the barren stems ovato-cordate, with pale green spots. Corolla blue. *Obs.* 8063. In a garden.

P. officinalis. *L. sp.* 194 α *Bot. arrang.* 193. *Walc. t.* The spots represented as darker than the rest of the leaf instead of paler.—*Gouan. monsp.* 20. *Roth germ.* ii. 212 α *Fl. dan. t.* 482. Spots distinct. Common in woods. (*Berg. mat. med. n.* 57 is P. rubro flore foliis echii. *Vaill. paris.* 165.)

P. foliis radicalibus ovato-cordatis. *Guett.* i. 88.

P. alpina, foliis mollibus subrotundis, flore caeruleo. *Boerh.* i. 193.

P. major. *Dalech.* 1327.

P. maculosa. *Raii hist.* 488; *europ.* 210. In mountainous woods on the banks of the Rhine and near Geneva.—*Lob. ic.* i. 586, *repr. in Ger. by Johns. ed.* ii. 808, &

Symphytum maculosum. *Dod.* 135, & *abr. in*

P. latifolia maculosa. *Park. parad. t.* 251. *f.* 1, who mentions its having been found in England by Goodyer;—& *repr. in*

P. foliis echii. *Ger. by Johns. ed.* i. 808, who mentions its having been found by Goodyer in a wood by Holbury house in the New Forest Hampshire.—*Raii cat. ed.* i. 255, following the second ed. of Ger. by Johns. where Goodyer's observation was not made to accord with the change made in the figures; and not attending to the anterior testimony of Parkinson. It is marked as a plant he had not himself seen growing wild in Great Britain, and the name of Goodyer is subjoined to its place

of growth.—*Raii syn.* 226; *ed.* i. 75. The same place of growth but the name of Goodyer omitted.

P. italorum ad buglossum accedens. *Bauh. J.* iii, 595. In Italy.

Stems a foot long. *Leaves* of the young shoots for next year's stems cordate, 2 to 3½ inches broad, upper surface dark green with distinct roundish pale green spots; those of the stem ovali-elliptic, the lower petiolate, the upper sessile, the uppermost amplexicaul, spotted with whitish green spots, to 1 inch 2 tenths broad. *Corolla* red, becoming blue. *Obs.* 8063.

Native of Europe from Italy to Sweden, and of Hampshire, Bedfordshire, and Durham.

PULMONARIA latifolia. *Geoffr. suite* ii. 106.

Pulmonaria. *Berg.* 83. *Lew.* ii. 251. *Spielm.* 391. *Vog.* 77.

P. maculata. *Murr.* ii. 97.

P. maculosa. *Chom.* 86. *Dale* 135. *Krock. n.* 280. *Linn.* 135. *Mill. Jos.* 363.

δ *immaculato-cordifolia.* Leaves as in γ, without spots. *From Park.* &

P. officinalis. *L. suec. n.* 163; *sp.* 194 γ *Roth germ.* ii. 212 β

P. folio non maculoso. *Vaill. paris.* 165. *Boerh.* i. 193.

P. Plinii. *Cord. fol.* 131. *p.* 1. The entire plant.

P. altera non maculosa. *Park. parad.* 248. No fig.

2. PULMONARIA *procumbens.* Calyces quinquepartite; segments ovate. *Obs.* 5406. Specimen gathered in the garden of Fothergill.

P. maritima. *L. sp.* 195. *Bot. arrang.* 194, where in the 2nd line of the references to figures read

"Park. 766. 5—(Sibbald &c.)"—*Lightf.* 134. *t.* 7. *Smith brit.* 218; *engl. bot. t.* 368. *Fl. dan. t.* 25. *Honck.* ii. 134. In Holstein.—*Retz. scand. n.* 231. (*Krock. n.* 281, is probably a different plant.)

Echium marinum. *How* 36. Near the salt pans between Berwick and Holy island.—*Sibbald* ii. 55. *t.* 12. *f.* 4. On the south side of the Firth of Forth.—*Raii cat. ed.* ii. 93; *syn. ed.* i. 76; *ed.* ii. 120; *ed.* iii. 228. Found by Lawson on the coast of Lancashire, and by Llwyd on that of Anglesea and Caernarvonshire.

Cerinthe maritima procumbens. *Dill. hort.* 75. *t.* 65. *f.* 75.

Cynoglossum procumbens glaucophyllon maritimum nostras, floribus purpuro-caeruleis, semine laevi. *Pluk. alm.* 126; *phyt. t.* 172. *f.* 3, *cop. in*

Cynoglossum britannicum glaucifolium procumbens perenne. *Hist. ox. s.* 11. *t.* 28. *row* 2. *f.* 12, &

Sea Bugloss. *Pet. herb. t.* 29. *f.* 3.

Buglossum dulce, ex insulis lancastriae. *Park. theatr.* 766.

Stem procumbent. *Leaves* elliptic, scabrous on the upper side. *Peduncles* axillary and internodial. *Obs.* 5406.

Native of the sea coasts of Norway, Holstein, Scotland, Cumberland, Lancashire, Anglesea, and Caernarvonshire.

PULMONARIA maritima. *Curt. lond.* vi. *t.* 378.

3. PULMONARIA *glabra.* Calyx quinquefid, glabrous. Leaves glabrous. *Obs.* 5407. Specimen gathered in Fothergill's garden.

P. virginica. *L. sp.* 194. *Curt. mag. t.* 160. *Hort. kew.* i. 182.

Pulmonaria. *Trew ehret.* 11. *t.* 42.

Symphytum, sive P. non maculata, foliis glabris acuminatis, flore patulo caeruleo. *Pluk. alm.* 359; *phyt. t.* 227. *f.* 6.

PULMONARIA virginica. *Schoepf* 18.

115. SYMPHYTUM.

Corolla infundibuliform; throat with 5 subulate prominences. *Obs.* 202. *L.*

1. SYMPHYTUM *officinale.* Leaves ovato-elliptic and elliptic, decurrent. Calyx as long as the tube of the corolla; segments erect. *Obs.* 202. Sides of ditches near Worcester.—*Sibth. ox.* 70. *L. sp.* 195. *Lightf.* 134. *Bot. arrang.* 195. *Curt. lond.* iv. 18. *t.* 230. *Fl. dan. t.* 664. *Woodv.* iv. 10. *t.* 215. *Smith brit.* 218; *engl. t.* 817.

α *albidum.* Corolla yellowish white. *Obs.* 202. 1. *Roth germ.* ii. 215. *var.* 1.

S. Consolida major, flore pallide luteo, quae foemina. *Tourn. paris.* 306. *Vaill. paris.* 190.

S. Consolida major foemina, flore albo vel pallide luteo. *Boerh.* i. 195.

Consolida major. *Raii hist.* 505. *Trag.* 240, *repr. in*

S. majus. *Cord. fol.* 167. *p.* 1, *cop. from*

S. magnum. *Fuchs.* 658. *c.* 266, *which cop. in Bauh. J.* iii. 593. *Dalech.* 1074. *Raii syn.* 230. *Dod.* 134, *repr. in*

S. Alum seu Alus. *Lob. ic.* i. 583,

Consolida major, flore purpureo. *Ger. by Johns.* 806, *& cop. in*

S. majus vulgare. *Park. theatr.* 523.

S. majus. *Cam. epit.* 700.

Corolla, prominences erect, dentate at the margin; teeth crowded. *Obs.* 202.

SYMPHYTUM. *Alst.* i. 525. *Cartheus.* i. 270. *Cutl.* 415. *Dale* 138. *Mill. Jos.* 465. *Murr.* ii. 92. *Quarin febr.* 366; *animad.* 101.

Symphitum. *Herm.* 158. *Lew. disp. by Dunc.* 348.

Consolida. *Lew.* i. 362. *Neum.* ii. 85. *Rutty* 135. *Wintringham in Mead. mon.* i. 266.

Consolida major. *Pharm. austriaco-prov.* 31.—*Berg.* 85. *Geoffr.* iii. 354. *Krock, n.* 282. *Linn.* 62. *Quarin animad.* 56. *Schoepf* 19. *Vog.* 191.

Grande Consoude. *Chom.* 578; *suppl.* 164.

β *rubens.* Corolla dullish purple. *Obs.* 202. With α —*Bot. arrang.* 195 β *Roth germ.* ii. 215 α

S. magnum flore purpureo. *Raii syn.* 230.

S. Consolida major, flore purpuro-caeruleo. *Tourn. paris.* 306. *Vaill. paris.* 190.

γ *kermesinum.* Corolla crimson. *Obs.* 6385. In Mr. S. Shore's garden.—*Bot. arrang.* 195 β pink coloured.

S. Consolida major, flore purpureo, quae mas. *Tourn. paris.* 306. *Vaill. paris.* 190.

S. patens. *Sibth. ox.* 70. Banks of the Thames by Caversham Oxfordshire.

Leaves elliptic, and ovato-elliptic, decurrent to the base of the 2nd internodium; *floral leaves* lanceolate, opposite and alternate. *Calyx* as long as the tube of the fully expanded corolla, longer than the tube of the carolla not yet grown to its greatest length; segments erect. *Corolla* when first expanded blackish purple and 4½ tenths of an

inch long; when fully grown crimson and 6 tenths of an inch long. *Stamina* not reaching to the end of the corolla. *Obs.* 6385.

116. ONOSMA.

Corolla campanulate and tubiform; throat open. *Seeds* 4. *Obs.* 8058. *L.*

1. ONOSMA *echioides.* Corollae cylindric. Fruit erect. Leaves linear, hispid. *Obs.* 8672. Specimen from Prof. Jos. F. Jacquin, gathered near Buda in Hungary.—*Sibth. prodr. n.* 423. *L. sp.* 196 *β. Hort. kew.* i. 183. *Host* 91. *Jacq. austr.* iii. *t.* 295. *Gouan. monsp.* 22.

Cerinthe echioides. *Scop. carn. n.* 197. *Gouan. hort.* 84. At Montpelier.—*Jacq. vind.* 29.

Symphytum echii folio angustiore, radice rubra, flore luteo. *Boerh.* i. 195.

Cerinthe foliis lanceolato-linearibus hispidis. *Guett.* ii. 436. Found by Villars at Rochelle.

Anchusa flore exalbido. *Clus. pann.* 678, *repr. in*

Anchusa exalbido flore. *Clus. hist.* ii. 165, *&*

Anchusa quarta, sive Pseudoanchusa. *Dod.* 619, *cop. in*

Anchusa lutea major. *Park. theatr.* 516,

Anchusa flore albo aut pallido Clusii. *Bauh. J.* iii. 583, *&*

Anchusa major lutea. *Hist. ox. s.* 11. *t.* 27. *row* 1. *f.* 1, *abr. in*

Anchusa. *Park. parad.* 250. *t*, 251. *f.* 6, *& repr. in*

Anchusa lutea. *Ger. by Johns.* 800. *Dalech.* 1102. Between Lyons and Valence.—*Raii hist.* 497;

curop. 61. Not far from Lyons on the road to Geneva.—*Bauh. J.* iii. 583. At Lyons, between Lyons and Vienne, and in the Euganean mountains in Lombardy.

(Anchusa tertia. *Cam. epit.* 736, is described as having red flowers.)

Native of Italy, Hungary, Austria, the south of France and as far north as Lyons and Rochelle.

ANCHUSA lutea. *Pharm. austriaco-prov.* 17.—*Dale* 137.

117. BORAGO.

Corolla rotate and hypocrateriform; appendages emarginate. *Obs.* 4496. 1315. *L.*

1. BORAGO *officinalis.* Leaves petiolate, all alternate. *Obs.* 4496. On dunghills and rubbish.—*L. sp.* 197. *Bot. arrang.* 197. *Smith engl. bot. t.* 36; *brit.* 219. *Woodv.* iv. 14. *t.* 217.

Borrago floribus caeruleis & albis. *Raii hist.* 493. *Bauh. J.* iii. 574, *cop. from*

Buglossum, sive Borrago. *Fuchs.* 149. *c.* 51, *which cop. in*

B. flore albo. *Ger. by Johns.* 797, *which repr. from*

Borago. *Dod.* 616. *Trag.* 237, *repr. in*

Buglossa urbana. *Cord. fol.* 109. *p.* 2.

Buglossum latifolium, sive Borrago. *Lob. obs.* 309, *repr. in ic.* i. 575.

B. hortensis. *Ger. by Johns.* 797. *Raii syn.* 228. On road sides and walls.

Borrago. *Park. parad.* 249. *t.* 251. *f.* 3. *Dalech.* 578.

(Borrago sylvestris tenuifolia. *Bauh. J.* iii. 577, has elliptic leaves.)

Native of Aleppo, and naturalised in Europe. *L.*

BORAGO. Berg. 87. *Cartheus.* iv. 249. *Dale* 136. *Krock. n.* 287. *Lew.* i. 229. *Linn.* 63. *Murr.* ii. 95.

Borrago. *Alst.* ii. 91. *Chom.* 98; *suppl.* 28. *Cleghorn* 24. *Geoffr.* iii. 201. *Herm.* 602. *Lew. disp. by Rother.* 117. *Mill. Jos.* 90. *Monro* iii. 33. *Rutty* 69. *Spielm.* 354. *Vog.* 55.

B. officinalis. *Bryant* 95.

118. LYCOPSIS.

Corolla with an incurvated tube. *L.*

1. LYCOPSIS *arvensis.* Leaves obsoletely dentate, hispid. Calyces quinquepartite, when in fruit erect. *Obs.* 3955. In corn fields.—*L. suec. n.* 167; *sp.* 199. *Curt. lond.* v. 17. *t.* 336. *Bot. arrang.* 198. *Smith brit.* 221; *engl. t.* 938. *Fl. dan. t.* 435.

Lycopsis. *L. lapp. n.* 77.

Buglossum sylvestre minus. *Tourn. paris.* 62. *Vaill. paris.* 23. *Boerh.* i. 188.

Echium. *Fuchs.* 270. *c.* 103, *cop. in*

Echium Fuchsii, sive Borrago silvestris. *Bauh. J.* iii. 581,

Buglossum minus silvestre. *Dalech.* 580, *&*

Buglossa sylvestris. *Dod.* 617, *which repr. in*

Buglossa sylvestris minor. *Ger. by Johns.* 799. *Raii syn.* 227; *hist.* 494.

BUGLOSSUM sylvestre. *Dale* 136. *Mill. Jos.* 96.

119. ECHIUM.

Calyx quinquepartite. *Corolla* infundibuliform, and tubular; limb oblique, quinquefid; segments unequal; throat open. *Obs.* 4055. *L.*

1. *Stem herbaceous.*

1. ECHIUM *vulgare.* Stamina mostly longer than the corolla. Stem hispid. Leaves lanceolate. *Obs.* 4055. In corn fields.—*L. suec. n.* 168; *sp.* 200. *Bot. arrang.* 200. *Smith engl. bot. t.* 181; *brit.* 222. *Scop. carn. n.* 200. *Host* 93. *Roth germ.* ii. 210. *Raii hist.* 498; *syn.* 227. *Tourn. paris.* 75. *Vaill. paris.* 48. *Boerh.* i. 194. *Mill. Ph. dict. n.* 2. *Fl. dan. t.* 445.

Buglossa sylvestris. *Brunsf.* i. 111.

Onosma. *Dalech.* 1107, root and radical leaves.

Native of Europe from Italy to Sweden.

ECHIUM. Dale 137. *Mill. Jos.* 183.

Viperina. *Geoffr. suite* iii. 330.

E. vulgare. *Chom.* 100.

α *simplex.* (Variation.) Lateral spikes sessile, or nearly sessile. *Obs.* 4055.

E. Matthioli. *Dalech.* 1105.

Echium. *Dod.* 620, *which repr. in*

E. sive Buglossum silvestre. *Lob. ic.* i. 579,

E. vulgare. *Clus. hist.* ii. 163, *& Ger. by Johns.* 802, *which cop. in Park. theatr.* 414.

Style pilose to the end or to three fourths of its length. *Obs.* 4055.

β *ramosum.* (Variation.) Stem diffuse. *Obs.* 8055. Specimen gathered by Mrs. Stokes at Barmouth, North Wales.

Lycopsis altera anglica. *Lob. obs.* 312; *repr. in ic.* i. 579,
Echii altera species. *Dod.* 620, &
Lycopsis anglica. *Ger. by Johns.* 802, *and cop. in Dalech.* 1263, *and Park. theatr.* 519.
Cynoglosson. *Trag.* 230.
Cynoglossum. *Fuchs.* 401. *c.* 156.
E. vulgare. *Bauh. J.* iii. 586.

Corolla twice as long as the calyx, 7 tenths of an inch long. *Stamina* even with the end of the corolla. *Style* pilose to near the end. This variation often owing to the end of the stem having been taken off in an early stage of growth. *Obs.* 8143. In a wood.

120. TOURNEFORTIA.

Berry superior, bilocular; perforated at the end with 2 pores; cells dispermous. *From L. and Swartz.*

1. TOURNEFORTIA *argentea.* Leaves linguiform, tomentoso-sericeous. Spikes terminal, compound. *From L. fil. suppl.* 133.
BUGLOSSUM lanuginosum. *Rumph.* iv. 119. *t.* 55.

2. TOURNEFORTIA *montana.* Leaves ovato-lanceolate, rugose. Spikes mostly simple, recurvate, terminal. *Lour.* i. 150.

121. PRIMULA.

Corolla hypocrateriform or infundibuliform; segments obcordate; mouth of the tube open. *Cap-*

sule of 1 cell, and many seeds, opening with 10 teeth. *Obs.* 4733. *L.*

1. PRIMULA *uniflora.* Leaves rugose, dentate. Diameter of the corolla exceeding the length of the calyx. Calyx quinquefid, villose. Peduncles from the root, with 1 flower. *Obs.* 4729. Woods, hedges and ditch banks.

P. veris acaulis. *L. sp.* 205, who does not notice it as a native of Sweden.

P. acaulis. *Bot. arrang.* 204. *Fl. dan. t.* 194. *Curt. lond.* vi. 16. *t.* 376. *Jacq.*

P. sylvestris. *Scop. carn. n.* 204.

P. vulgaris. *Smith engl. bot. t.* 4; *brit.* 222. *Walc. t.*

P. veris floribus ex singularibus pallidis majoribus simplicibus. *Bauh. J.* iii. 497. No fig. About Coire in the Grisons flowers during the winter, if not prevented by snow.—*Magn. hort.* 164.

P. veris pallido flore humilis. *Tourn. paris.* 520. *Vaill. paris.* 164. *Boerh.* i. 198.

P. veris minor. *Dod.* 147, *repr. in Ger. by Johns.* 781, *and cop. in.*

P. veris vulgaris. *Park. theatr.* 535. *Raii syn.* 284; *hist.* 1080.

P. sylvarum. *Lob. adv.* 244. No fig. In England, Dauphine, and Savoy.

Alisma prima. *Col. phytob.* 22.

Alisma sylvarum. *Col. phytob. t.* 21. inner fig.

PRIMULA veris. *Dale* 187. *Lew.* ii. 185. *Mill. Jos.* 357. *Rutty* 410.

2. PRIMULA *elatior.* Leaves rugose, dentate. Diameter of the corolla exceeding the length of the calyx. Calyx semiquinquefid. Scapus villose, with

several flowers. *Obs.* 4731. Growing under a hedge near some plants of P. uniflora, in a pasture full of P. odorata.—*L. amoen.* vi. 51. on the lower parts of the sand hills of Holland.—P. odorata and P. uniflora not being enumerated in the floras of Holland are probably not natives, an additional proof that these 3 plants are distinct species.—*Bot. arrang.* 203. *Smith brit.* 223; *engl. t.* 513.

P. veris elatior. *L. sp.* 204; *suec.* 171. In one place in Scania.

P. veris. *Gort. belg. n.* 179.

P. veris officinalis. *Fl. dan. t.* 434.

P. inodora. *Honck. n.* 569.

P. veris pallido flore elatior. *Vaill. paris.* 164. *Boerh.* i. 199.

P. veris altera. *Cam. epit.* 884.

P. veris major. *Dod.* 147, *repr. in*

P. pratensis inodora lutea. *Ger. by Johns.* 780. *Raii syn.* 284; *hist.* 1081.

Paralysis altera odorata flore pallido polyanthos. *Park. parad.* 244.

Verbasculum non odoratum. *Fuchs.* 805. *c.* 327, *cop. in*

P. veris caulifera, pallido flore inodoro aut vix odoro. *Bauh. J.* iii. 496. *Magn. monsp.* 213, who does not notice either P. uniflora or P. odorata.

Alisma secunda. *Col. phytob.* 22.

Alisma pratorum. *Col. phytob. t.* 21, outer fig.

HERBA PETRI. Dale 188.

3. PRIMULA *odorata.* Leaves rugose, dentate. Diameter of the corolla not equal to the length of the calyx. Calyx semiquinquefid, pubescent. Scapus

pubescent, with several flowers. *Obs.* 4733. In a pasture.

P. officinalis. *Bot. arrang.* 203. *Curt. lond.* vi. 15. *t.* 375. *Scop. carn. n.* 205. who does not notice P. elatior.

P. veris officinalis. *L. sp.* 204.

P. veris. *L. suec. n.* 171 *α*. *Huds.* 85. *Wale. t.* but more like P. elatior.—*Smith engl. bot. t.* 5; *brit.* 223. *Cam. epit.* 883.

P. veris elatior. *Fl. dan. t.* 433.

P. veris odorata, flore luteo simplici. *Bauh. J.* iii. 495. No fig.—*Tourn. paris.* 520. *Vaill. paris.* 164.

Paralytica rotundifolia montana. *Col. ecphr.* i. *t.* 256.

P. veris major. *Ger. by Johns.* 780. *Raii syn.* 284; *hist.* 1081.

P. veris umbellata odorata pratensis. *Boerh.* i. 199.

P. vulgaris pratensis, flore flavo simplici odorato. *Park. parad.* 244. No fig.

Verbascum odoratum. *Fuchs.* 805. *c.* 327.

Herba paralysis vulgaris. *Trag.* 201.

PRIMULA veris. *Alst.* ii. 204. *Berg.* 88. *Bryant* 107. *Cartheus.* iv. 235. *Geoffr. suite* ii. 72. *Herm.* 595. *Krock. n.* 295. *Linn.* 62. *Murr.* ii. 22. *Spielm.* 346.

Verbasculum. *Lew.* ii. 185.

Primevere. *Chom.* 362; *suppl.* 112.

Paralysis. *Dale* 187. *Mill. Jos.* 332. *Murr.* ii. 22. *Ploucq. bibl.* i. 426. *Rutty* 378. *Vog.* 154.

4. PRIMULA *Auricula.* Leaves cuneato-obovate, serrato-crenate, pubescent. *Obs.* 3409. In a garden.—*L. sp.* 205. *Hort. kew.* i. 193.

α *flava.* Corolla pale yellow. *Obs.* 3409. *L.* α. *Hort. kew.* α

P. Auricula. *Jacq. austr. t.* 415.

Alisma. *Col. phytob.* 18. *t.* 17.

Auricula ursi I. *Clus. pann.* 344, *cop. in hist.* i. 302,

Auricula ursi. *Dod.* 148, *&*

Paralytica alpina Sanicula, sive Auricula ursi lutea. *Lob. ic.* i. 569, *cop. in*

Auricula ursi lutea. *Park. theatr.* 536, *& repr. in*

Auricula ursi flore luteo. *Ger. by Johns.* 784. *Bauh. J.* iii. 499.

Leaves crenate, oblongo-cuneiform. *Corolla*, mouth of the tube without any glands. *Obs.* 3409.—*Leaves* in places obsoletely serrate, the rest of the margin repandose or entire. *Corolla* infundibuliform. *Obs.* 6944. In Mr. S. Shore's garden.

AURICULA URSI. Dale 188.

122. CORTUSA.

Corolla infundibuliform; segments entire. *Capsule* of 1 cell, and 5 valves. *Obs.* 7296. *L.*—*Boerh.* i. 206.

1. CORTUSA *Matthioli.* Calyx shorter than the corolla. *L. sp.* 206. *Hort. kew.* i. 194. *Park. parad. t.* 237. *f.* 8. Flowers too large.—*Krock. n.* 297. *Clus. hist.* i. 307, *cop. in Dalech.* 1269, *repr. in*

Cariophyllata veronensium, flore saniculae ursinae. *Lob. ic.* i. 699, *&*

Sanicula alpina Clusii, sive C. Matthioli. *Ger. by Johns,* 788, *cop. in*

Sanicula alpina, sive C. Matthioli. *Park. theatr.* 533, *& abr. in*

Cortusa. *Bauh. J.* iii. 499.

Sanicula montana altera. *Clus. pann.* 443.

Leaves cordate, doubly crenate. *Petioles* longer than the laminae, villose; hairs jointed. *Antherae* ovato-lanceolate. *Capsule*, valves ovate, acute, whitish within. *Obs.* 7296. Specimen gathered in Fothergill's garden.

CORTUSA. Dale 188.

123. SOLDANELLA.

Corolla campanulate, lacerato-multifid. *Capsule* of 1 cell, opening at the end with several teeth. *L.*

1. SOLDANELLA *alpina. L. sp.* 206; *a Murr.* 194. *Hort. kew.* i. 195. *Jacq. austr.* i. *t.* 13. *Curt. mag. t.* 49. *Clus. pann.* 354, *cop. in Park. parad. t.* 233. *f.* 6, *repr. in*

S. alpina major. *Ger. by Johns.* 838, *and cop. in Park. theatr.* 168.

S. montana. *Lob. adv.* 262; *ic.* i. 602, *repr. in*

S. alpina minor. *Ger. by Johns.* 839.

Lunaria alia minor caerulea. *Dalech.* 1314.

S. alpina rotundifolia. *Boerh.* ii. 202.

S. montana quibusdam. *Bauh. J.* ii. 817.

Capsule oblong; mouth patulous, multifid; segments 10 and 11. *Obs.* 8069. In Mr. Knowlton's garden.

SOLDANELLA alpina. *Dale* 184.

124. CYCLAMEN.

Calyx quinquefid. *Corolla* hypocrateriform; tube globular; limb quinquepartite, retroflex. *Capsule* pulpy within. *Obs.* 4054. *L.*

1. CYCLAMEN *cordifolium*. Leaves cordate, crenate. *Obs.* 3137. In a garden.

C. europaeum. *L. sp.* 207. *Hort. kew.* i. 196. *Jacq. austr.* v. 1. *t.* 401. *Sibth. prodr. n.* 442. *Mill. Ph. dict. n.* 1. *Gouan hort.* 89. Near Montpelier.—*Krock. n.* 298.

Cyclaminus europaeus. *Scop. carn. n.* 211.

C. flore cernuo, segmentis revolutis. *Hall. hist. n.* 635.

C. byzantinum. *Magn. monsp.* 83; *hort.* 66.

C. orbiculato folio inferne purpurascente. *Boerh.* ii. 150.

Cyclaminus prior. *Dalech.* 1605.

Cyclaminus orbicularis rotundifolius. *Dod.* 335, in the forest of Ardennes and the adjoining districts of Flanders; *repr. in ed.* ii. 337,

Cyclaminus odorato purpureo flore. *Clus. hist.* i. 264,

C. vulgare officinarum orbiculato folio. *Lob. ic.* i. 604, *&*

C. orbiculato folio. *Ger. by Johns.* 843, *cop. in*

Cyclaminus vulgaris. *Dalech.* 1604, *&*

Ciclamen folio rotundo. *Theophr. a Stap.* 1060, *& abr. in*

C. vulgare folio rotundo. *Park. parad. t.* 197. *f.* 9.

Cyclaminus. *Cam. epit.* 357. *Fuchs. fol. ed.* 450. *c.* 170, *cop. in* 441. *c.* 172, 12*mo ed. and Trag.*

906, *which repr. in Cord. fol.* 132. *p.* 1; *& cop. also in*

Cyclaminus folio rotundiore, vulgatior. *Bauh. J.* iii. 551. Plentifully on Mount Saleve near Geneva, and on the mountains of the Grisons in June and July.—*Raii hist.* 1206. In the mountains of Stiria and the neighbourhood of Geneva in June and July;—*europ.* 110, where for elatior read vulgatior.

C. aestivum. *Park. parad.* 195. *t.* 197. *f.* 2.

Cyclaminus foliis subrotundis. *Gesn. ap. Cord. fol.* 256. *p.* 1. At the foot of mountains near the lake of Wallestadt and other places in Switzerland, and in the Grisons.

Cyclaminus parva radice. *Bauh. J.* iii. 553.

C. vernum majus flore albo odorato. *Munt. phyt. t.* 151.

C. aestivum, flore carneo. *Munt. phyt. t.* 146. Leaves slightly dentate at the margin.

C. rotundifolium hyemale. *Munt. phyt. t.* 147. Leaves entire at the margin.

C. aleppicum, flore purpureo odorato. *Munt. phyt. t.* 145. Leaves dentate.

Cyclamen. *Tab. ic.* 753.

Leaves, laminae $3\frac{1}{2}$ inches long, 3 inches broad, with whitish green spots. *Scapi* 10 inches long, attenuate each way. *Flowers* of the scent of Rosa spinosissima. *Corolla* white; segments obsoletely serrate, 8 tenths of an inch long. *Obs.* 3137.

Native of the mountains of Switzerland, the Grisons, Stiria, and Carniola, and possibly of Silesia, Montpelier, and Flanders.

CYCLAMEN. Pharm. austriaco-prov. 34.—*Berg.* 90. *Geoffr.* iii. 391. *Herm.* 111. *Murr.* ii. 25. *Rutty* 156. *Spielm.* 633.

C. orbiculato folio inferne purpurascente. *Chom.* 31; *suppl.* 16.
Cyclaminus. *Alst.* i. 426.
Arthanita. *Dale* 253. *Lew.* i. 172; *disp. by Rother.* 103.
Artanita. *Mill. Jos.* 51.

2. CYCLAMEN *hederifolium.*—Leaves cordate, angular; margin dentate. *Hort. kew.*
C. hederaefolium. *Hort. kew.* i. 196.
C. vernale. *Mill. Ph. dict. n.* 4?
Cyclaminus foliis angulosis. *Gesn. ap. Cord. fol.* 256. *p.* 1. No fig.
CYCLAMEN. Dale 253. *Linn.* 63. *Vog.* 235.
Κυκλαμινος. *Diosc. l.* 2. *c.* 194.
α *sublobatum.* Leaves sublobate. *Obs.* 8670. Specimen gathered in Saville's garden.
C. hederae folio. *Boerh.* ii. 151. *Magn. hort.* 66. *Raii hist.* 1206.
C. folio hederae. *Clus. pann.* 235. Found by Mouton in a wood near Tournay. No fig.—*Lob. adv.* 264, in the country of the Grisons. No figure; *ic.* i. 605, *repr. in Ger. by Johns.* 843,
Cyclaminus inodoro purpurascente flore. *Clus. hist.* i. 265, &
Cyclaminus orbicularis. *Dod.* 335, & *cop. in*
Cyclaminus altera orbicularis. *Dalech.* 1606.
C. autumnale folio hederae. *Park. theatr.* 1364,
Cyclaminus, flore rubro graciliori, et flore albo, vernus. *Bauh. J.* iii. 554, &
Ciclamen folio hederaceo. *Theophr. a Stap.* 1059.
C. folio hederae autumnale. *Park. parad.* 196. *t.* 197. *f.* 5.
β *angulosum.* Leaves angular. *Obs.* 8615. In the Norton garden.

C. europaeum. *Smith brit.* 224; *engl. t.* 548. Found by Mr. Davy on a bank near Bramfield, Suffolk, apparently wild.

C. folio anguloso. *Boerh.* ii. 151.

C. vernum. *Raii europ.* 110. Between Massa and Lucca in Italy, in April.—*Lob. ic.* i. 605, *repr. in Ger. by Johns.* 843, *& cop. in*

Cyclaminus folio anguloso. *Bauh. J.* iii. 553, but the corollae seem longer in proportion to the leaves than in the specimens examined above.—*Raii europ.* 110. Near Rome in Sept.—*Boerh.* ii. 151.

C. vernum flore purpureo. *Park. parad. t.* 197. *f.* 1.

Flowers scentless. *Corolla* purple in the middle; the segments whitish purple towards the margin. *Germen* inferior. *Obs.* 4054. Aug. Sept.—*Leaves*, laminae from 1 inch one tenth to 1 inch 4 tenths long. *Obs.* 6815. Oct. 10.—*Leaves*, laminae $2\frac{1}{2}$ inches long. *Obs.* 8001. Specimen from Mr. Hollifear.

Native of Italy, scarcely of the north of France or of England.

γ *subinteger.* Leaves nearly entire at the margin. *Obs.* 2738. In Mr. Hunters's nursery. Apr. May.

C. romanum autumnale. *Park. parad. t.* 197. *f.* 4.

125. MENIANTHES.

Calyx quinquepartite. *Corolla* infundibuliform, hirsute on the inside; segments oblongo-ovate. *Capsule* of 1 cell. *Seeds* oval, compressed, glabrous. *Obs.* 4475.

Menyanthes. *L.*

1. MENIANTHES *petioliflora*. Leaves reniform. Flowers inserted into the petioles. *From*
Menyanthes indica. *L. sp.* 207. *Swartz. obs.* 58.
Menyanthes. *Browne* 151.
Nymphaeae minoris affinis indica, flore albo piloso. *Sloane cat.* 121; *hist.* i. 252.
Nedel-ambel. *Rheede* xi. 55. *t.* 28.
NYMPHAEA indica minor. *Rumph.* vi. 172. *t.* 72. *f.* 3.

2. MENIANTHES *trifoliata*. Leaves ternate. *L. suec. n.* 173; *sp.* 208. *Bot. arrang.* 206. *Curt. lond.* iv. 17. *t.* 240. *Smith brit.* 225; *engl. t.* 495. *Woodv.* 5. *t.* 2. *Bart.* 45. Native of Pensylvania. —*Fl. dan. t.* 541.
Menyanthes. *L. lapp. n.* 80.
M. palustre. *Tourn. paris.* 494.
Menyanthes palustre latifolium et triphyllum. *Vaill. paris.* 126. *Boerh.* i. 205.
M. palustre triphyllum latifolium et angustifolium. *Dill. ap. Raii syn.* 285.
Trifolium palustre. *Bauh. J.* ii. 389. No fig.— *Cord. fol.* 96. *p.* 2. *Raii hist.* 1099; *syn. ed.* ii. 226. *Dod.* 570, *repr. in*
Trifolium paludosum. *Lob. obs.* 496; *ic.* ii. 33, & *Ger. by Johns.* 1194, & *cop. in Park. theatr.* 1212, &
M. palustre Theophrasti. *Dalech.* 1020. In fruit.
M. palustre Dalechampii. *Dalech.* 1020. In flower.
Portulaca hortensis latifolia. *Bauh. J.* iii. 678. (The name and description is Portulaca.)

Flowers racemose, the lower verticillate. *Stigma* bifid and trifid. *Capsule* roundish, bivalve and trivalve. *Seeds* adhering to the sutures, shining. *Obs.* 4475. In a bog.

MENIANTHES. Geoffr. suite i. 22.

Menyanthes. *Cull.* ii. 75.

Menyanthes trifoliata. The leaves. *Pharm. edin. Lew. disp. by Dunc.* 254 *Murr. J.* i. 190. *Thunberg, account from in phys. journ.* ii. 498.

Trifolium paludosum. Buckbean. The herb. *Pharm. lond.—Heberd.* 51. 347. *Hill* 395. *Lew.* ii. 440. *Mill. Jos.* 441.

Trifolium palustre. *Alst.* ii. 239. *Cartheus.* ii. 337. *Chom.* 540. *Dale* 189. *Monro* iii. 284. *Rutty* 522.

Trifolium aquaticum. *Berg.* 90. *Krock. n.* 299. *Linn.* 63.

Trifolium fibrinum. *Pharm. austriaco-prov.* 72.—*Aasheim in act. med. haun.* i. 461, *and account from in med. comment. dec. II.* iv. 73. *Bang in act. haun.* i. 294. *Cartheus.* ii. 322. *Murr.* ii. 27. *Quarin animad.* 41. 169. 172. 177. 250. *Spielm.* 231. *Stoll med.* iii. 82. 83. 88. *Vog.* 87.

Trefoil. *Monro, Don. sold.* ii. 186.

126. LIMNANTHES.

Calyx quinquepartite. *Corolla* rotate; segments obovate, incumbent, denticulate. *Nectaria* 5, at the base of the germen. *Capsule* of 1 cell, and 2 valves. *Seeds* obovate, compressed, ciliate, fixed to the 2 sutures. *Obs.* 4474.

Limnanthemum. *Gmel. J. G.*

Nymphoides. *Tourn. t.* 67. *Boerh. Venten. tabl.* iv. *t.* 10 *f.* 5.

1. LIMNANTHES *nymphoides. Obs.* 4474. Specimen gathered in Lady Clifford's garden.

Menyanthes nymphoides. *L. sp.* 207. *Bot. arrang.* 206. *Huds.* 85. About Kingston and Hampton.—*Relh. n.* 159. In the Cam below Cambridge, Streatham ferry, and the fens near Ely.—*Gouan monsp.* 29. *Roth germ.* i. 91. *Fl. dan. t.* 339.

Menyanthes nymphaeoides. *Smith engl. t.* 217, who has subjoined "e MS. Linn." to a synonym already found in the works of Linnaeus.

Nymphoides aquis innatans. *Tourn. paris.* 215. *Vaill. paris.* 145. *Boerh.* i. 282. In Holland.—*Magn. hort.* 145.

Nymphaea minor lutea, (misprinted in the title over the fig. alba) *Dalech.* 1010, *cop. in*

Curld yellow Water Lily. *Pet. herb. t.* 71. *f.* 4, *&*

Nymphaea minor lutea, flore fimbriato. *Bauh. J.* iii. 772. Leaves represented as cordate, and made still more acute in the copy.—*Raii syn.* 368; *hist.* 1320. In the isle of Ely plentifully.

Nymphaea lutea minor septentrionalium. *Lob. adv.* 257, in the Thames; *ic.* i. 595, *& repr. in*

Nymphaea lutea minima. *Ger. by Johns.* 820, *and cop. in*

Nymphaea lutea minor. *Park. theatr.* 1252, *&*

Nymphaea minor lutea. *Bauh. J.* iii. 772. Referred by Boerhaave to his *Micronymphaea*, which he marks as a native of Holland, but which is not noticed in Gort. belg. foed. nor Geuns.

Native of Japan, France, Germany, Holland, Middlesex, Buckinghamshire, Oxfordshire, and Cambridgeshire.

MENYANTHES nymphoides. *Thunb. jap.* 82; *trav.* iii. 227.

127. HYDROPHYLLUM.

Corolla campanulate. *Nectaria* 5, each formed by 2 parallel lamellae projecting from the inner side of the corolla. *Stigma* bifid. *Capsule* unilocular, bivalve. *Obs.* 7784. *L.*

1. HYDROPHYLLUM *lobatum*. Leaves lobate. *Obs.* 1417. In Mr. Hunter's nursery.

H. canadense. *L. sp.* 208. *Hort. kew.* i. 197. *HYDROPHYLLUM. Schoepf* 19.

128. LYSIMACHIA.

Corolla rotate. *Capsule* globular, unilocular; valves 5 or 10. *Obs.* 3089. *L.*

1. *Peduncles with many flowers.* L.

1. LYSIMACHIA *vulgaris*. Stem paniculate. Flowers terminal, corymbose. Leaves ovato-elliptic. *Obs.* 3090. In Mr. Hunter's nursery.—*L. suec. n.* 175; *sp.* 209. *Bot. arrang.* 208. *Curt. lond.* v. 49. *t.* 288. Tolerably frequent about London.—*Smith engl. bot. t.* 761; *brit.* 227. *Sibth. ox. n.* 230. *Relh. n.* 162. *Lightf.* 138. On the sides of lakes in the isle of Mull.—*Krock. n.* 301. *Fl. dan. t.* 689.

L. foliis lanceolatis, caule corymbo terminato. *L. lapp. n.* 81.

L. lutea major, quae Dioscoridis. *Tourn. paris.* 212. *Vaill. paris.* 123. *Boerh.* i. 202.

L. Matthioli. *Dalech.* 1059.

Lysimachium legitimum. *Dod.* 84, *repr. in*

L. lutea sive Salicaria. *Lob. ic.* i. 342, *cop. in*

L. lutea major vulgaris. *Park. theatr.* 544, *& repr. in*

L. lutea. *Ger. by Johns.* 474. *Bauh. J.* ii. 903. (misprinted 901. The figure is a Cardamine.) *Raii cant.* 92; *hist.* 1021; *syn.* 282, in watery places and near rivulets. Found by Richardson about Carlisle.—*Blackst. haref.* 56. In meadows near Uxbridge moor.—*Warner woodf.* 92. On the banks of the Rhodon near Luxborough House Essex.—*Fuchs.* 477. *c.* 188, *abr. in*

Lysimachia. *Trag.* 183.

L. lutea, foliis brevioribus et obtusis, floribus in summitate congestis. *Dill. ap. Raii syn.* 282. Found by James Sherard? Probably in the Sherardian herbarium.

Flowers sometimes verticillate. *Obs.* 8060. Specimen from Prof. Jos. F. Jacquin.

Native of Europe from Italy to Lapland.

LYSIMACHIA. *Dale* 188. *Mill. Jos.* 278.

L. lutea. *Rutty* 297.

Pellibossa. *Geoffr. suite* i. 343.

2. *Peduncles with* 1 *flower.* L.

L. vulgaris.

2. LYSIMACHIA *quadrifolia.* Leaves in fours, nearly sessile. Peduncles in fours, with 1 flower. *L. sp.* 210.

L. foliis quaternis subsessilibus, pedunculis quaternis unifloris. *Gron. virg.* 26. *Cutl. in amer. acad.* i. 415.

L. foliis ovato-acutis quaternis. *Gron. virg. ed.* i. 20.

Anagallis mariana lutea, foliis latis stellatis. *Pet. gaz.* 5. *t.* 2. *f.* 5.

Anagallis lutea, foliis et floribus ex eodem exortu quatuor ex aequalibus surculorum intervallis cruciatim positis. *Pluk. mant.* 13; *phyt. t.* 333. *f.* 1.

LYSIMACHIA. Schoepf 20.

3. LYSIMACHIA *repens.* Flowers solitary and in pairs. Stem creeping. *Obs.* 5881. On the side of a wet ditch.

L. Nummularia. *L. suec. n.* 177; *sp.* 211. *Bot. arrang.* 209. *Curt. lond.* iii. 14. *t.* 149. *Walc. t. Fl. dan. t.* 493. *Smith engl. t.* 528.

L. humifusa, folio rotundiore, flore luteo. *Tourn. paris.* 287.

Nummularia. *Cam. epit.* 755. *Dalech.* 1062. *Raii hist.* 1099; *syn.* 283. *Trag.* 808. *Dod.* 590, *repr. in Lob. obs.* 251, *& Ger. by Johns.* 630, *cop. in*

Nummularia vulgaris. *Park. theatr.* 555, *and repr. in*

Nummularia, sive Centimorbia. *Lob. ic.* i. 474. *Bauh. J.* iii. 370, *cop. from*

Centummorbia, sive Nummularia. *Fuchs.* 395. *c.* 153.

Nummularia major lutea. *Vaill. paris.* 144. *Boerh.* i. 203.

Nummularia minor. *Park. theatr.* 555.

Stems perennial. *Leaves* evergreen. *Observed* during the winter of 1799—1800.

NUMMULARIA. Berg. 92. *Chom.* 539; *suppl.* 158. *Dale* 188. *Geoffr. suite* i. 199. *Krock. n.* 305. *Lew.* ii. 146. *Linn.* 64. *Murr.* ii. 9. *Vog.* 73.

Anagallis flore luteo. *Stoll med.* ii. 299.

129. ANAGALLIS.

Corolla rotate. *Capsule* cut round. *L.*

1. ANAGALLIS *punctifolia.* Leaves ovate. Stems procumbent. *Obs.* 552. In corn fields.

A. arvensis. *L. sp.* 211. *Bot. arrang.* 210. *Smith brit.* 230.

Anagallis. *Trag.* 388.

ANAGALLIS. Pharm. austriaco-prov. 18.—*Cartheus.* iv. 219. *Lew.* i. 80; *disp. by Dunc.* 328. *Linn.* 64. *Murr.* ii. 1. *Rutty* 25. *Schoepf* 20. *Spielm.* 198.

α *rubra.* Corolla red. *Obs.* 552.

A. arvensis. *Curt. lond.* i. 12. *t; mat. med. t.* 20. *Walc. t. L. suec. n.* 178. *Fl. dan. t.* 88. *Smith engl. t.* 529.

A. flore phoeniceo. *Raii syn.* 282. *Tourn. paris.* 245. *Vaill. paris.* 12. *Boerh.* i. 204.

A. phoenicea mas. *Bauh. J.* iii. 369, *cop. from*

A. mas. *Fuchs.* 20. *c.* 6. *Dalech.* 1236. *Raii hist.* 1023. *Dod.* 32, *repr. in Ger. by Johns.* 617, *&*

A. mas phoenicea. *Lob. ic.* i. 465, *& cop. in*

A. floribus phoeniceis. *Park. theatr.* 558.

A. phoenicea. *Tab.* 716.

Leaves dotted underneath with purplish brown spots. *Capsules* with 5 lines apparently marking out a separation into 5 valves. *Obs.* 552.

ANAGALLIS phoeniceo flore. *Chom.* 363; *suppl.* 113.

A. mas. *Geoffr.* iii. 89. *Ploucq. bibl.* i. 407 (misprinted amara.)

A. terrestris mas. *Dale* 187. *Mill. Jos.* 36.

A. terrestris. *Alst.* ii. 82.

Anagallis. *Krock. n.* 306. *Ploucq. bibl.* i. 638.

β *trifolia.* Upper leaves in threes. *Obs.* 6136. On the side of a road where manure had lain.

A. mas. *Cam. epit.* 394.

γ *quadrifolia.* Leaves in fours. *From*

A. phoenicea foliis amplioribus ex adverso quaternis. *Raii syn.* 282.

δ *caerulea.* Corolla blue. *Obs.* 5208. Specimen from Withering.—*Sibth. ox. n.* 233. Charlbury and Stoney Middleton Oxfordshire.

A. caerulea. *Abbot n.* 159. Oakley west field, and Barton hill Bedfordshire.—*Willd. berol. n.* 257. *Schreb. lips.* 5. *Roth germ.* i. 88; ii. 226. *Tab.* 717.

A. caeruleo flore. *Tourn. paris.* 245. *Vaill. paris.* 12. *Boerh.* i. 204.

A. caerulea foemina. *Bauh. J.* iii. 369, *cop. from*

A. foemina. *Fuchs.* 20. *c.* 6. *Cam. epit. t.* 395. *Dalech.* 1237. *Raii cant.* 11. Near Histon Cambridgeshire; *syn.* 282; *hist.* 1024; rather rare in England, but in France and Italy not less common than α—*Dod.* 33, *repr. in Ger. by Johns.* 617, found by Gerarde in a chalky corn field between Southfleet and Longfield downs, and by Johnson at Wrightsbridge in Essex; *&*

A. foemina caerulea. *Lob. ic.* i. 465, *& cop. in*

Alsine minor. *Park. theatr.* 760. (The name and description belong to a different plant.)

Calyx, phylla ovato-lanceolate, exactly corresponding with those of α. *Obs.* 5208.

Native of Europe from Italy to Germany, and of Devonshire, Somersetshire, Surry, Essex, Worcestershire, Oxfordshire, Bedfordshire and Cambridgeshire.

ANAGALLIS femina. *Geoffr.* iii. 89. *Mill. Jos.* 36.

A. caeruleo flore. *Chom.* 363.

A. terrestris foemina. *Dale* 187.

130. SPIGELIA.

Corolla infundibuliform. *Capsule* didymous, with 2 cells, and many seeds. *L.*

1. SPIGELIA *quadrifolia.* The uppermost leaves four together. *Obs.* 8218. Specimen gathered in Jamaica by Dr. Wright.

S. Anthelmia. *L. sp.* 213; *a Murr.* 197; *amoen.* v. *a Schreb.* 133. *t.* 6. *Hort. kew.* i. 202.

Anthelmenthia. *Browne* 156. *t.* 37. *f.* 3, *cop. in L. amoen.* v. 133. *t.* 2.

Arapabaca. *Marcgr.* 34.

Anthelmia. *Browne in gent. mag.* xxi. 544. *t. at p.* 545. *f. a—l.*

Capsule didymous, bilocular; dissepiment very thin, whitish. *Obs.* 8218.

SPIGELIA Anthelmia. *Clark, James, in med. facts* vii. 297. *Lew. disp. by Dunc.* 347.

Spigelia. *Linn.* 64. *Murr.* i. 378. *Vog.* 120.

Anthelmenthia. *Wright in med. journ.* viii. 285.

Wormgrass. *Graing.* 9. 28.

2. SPIGELIA *oppositifolia.* Leaves opposite. *Obs.* 8219. In Mr. Hunter's nursery.

S. marilandica. *L. a Murr.* 197; *mant.* 338. *Hort. kew.* i. 202. *Curt. mag. t.* 80. *Walt.* 92. *Woodv.* ii. 288. *t.* 105.

Lonicera marilandica. *L. sp.* 249.

Lonicera spicis terminalibus, foliis ovato-oblongis acuminatis distinctis sessilibus. *Gron. virg.* 30.

Periclymeni virginiani flore coccineo planta marilandica, spica erecta, foliis conjugatis. *Catesb.* ii. *t.* 78.

Leaves microscopically scabrous at the margin. *Bracteae* subulato-setaceous, 2 to each flower excepting the lowermost, one at the base of the flower, the other on one side of the base of the peduncle. *Style* attenuate, pubescent towards the end. *Obs.* 8219.

SPIGELIA marilandica. The root. *Pharm. edin.* —*Bart.* 39, *repr. in phys. journ.* viii. 428. *Lew. disp. by Dunc.* 307. *Murr. J.* i. 378.

S. marylandica. *Home, F. clin.* 420. *Rush* i. 185. *Schoepf* 21.

S. americana. *Monro* iii. 270.

Spigelia. Indian Pink. The root. *Pharm. lond.*— *Berg.* 94. *Lew.* ii. 377.

Anthelmia. *Vog.* 216.

Lonicera. *Chalm.* i. 67.

Indian Pink. *Garden in phys. ess.* iii. 145. *Graing.* 28. *Lining in phys. ess.* i. 436.

131. OPHIORHIZA.

Corolla infundibuliform. *Germen* bifid. *Stigmata* 2. *Fruit* bilobate. *L.*

1. OPHIORHIZA *Mungos.* Leaves lanceolato-ovate. *L. sp.* 213.

O. serpentum radix. *L. mat. med. ed.* ii. *t. at p.* 59.

MUNGOS. Murr. i. 375.
Mungo. *Cartheus.* ii. 324.
Serpentum radix. *Linn.* 65. *Vog.* 227.

132. LISIANTHUS.

Corolla, tube ventricose; segments recurvate. *Calyx* carinate. *Stigma* bilobate. *Capsule* bilocular, oblong. *L.*

1. LISIANTHUS *chelonoides.* Glabrous. Leaves opposite, slightly connate, oblong. Panicle terminal, dichotomous, racemose. *L. fil. suppl.* 134.

133. PLUMBAGO.

Corolla infundibuliform. *Stamina* inserted into the scales which close the base of the corolla. *Stigma* quinquefid. *Seed* 1, oblong, tunicate. *L.*

1. PLUMBAGO *europaea.* Leaves amplexicaul, scabrous. *Obs.* 8220. Specimen gathered in the Paris garden.—*L. a Willd.* i. 837; *sp.* 215. *Gouan hort.* 92. Near Montpelier.—*Hort. kew.* i. 204.
Tripolium Dioscoridis. *Col. ecphr.* i. 160. *t.* 161.
P. quorundam. *Boerh.* i. 77. *Clus. hisp.* 434, *cop. in*
Lepidium monspeliacum, Dentillaria dictum. *Park. theatr.* 855, & *repr. in*
P. Plinii. *Ger. by Johns.* 1254. *Raii hist.* 394; *europ.* 206. About Syracuse, Rome, and Montpelier.

Dentillaria Rondeletii. *Bauh. J.* ii. 941. About Montpelier, Arles, and Avignon.

Dentaria. *Lob. adv.* 136, *repr. in ic.* i. 321.

Native of Sicily, Italy, and the south of France.

DENTELLARIA. Dale 111.

Dentaria. *Linn.* 65. *Mill. Jos.* 176. *Murr.* i. 513. *Vog.* 114. 236.

P. europaea. *Ploucq. bibl.* i. 427.

2. PLUMBAGO *zeylanica.* Leaves petiolate, ovate, glabrous. Stem filiform. *L. sp.* 215. *Hort. kew.* i. 204. *Forst. G. austral. n.* 73.

Lychnis indica spicata, ocymastri foliis, fructibus lappaceis oblongis, radice urente. *Commel. hort.* ii. 169 *t.* 85.

TUMBA CODIVELI. Rheede x. 15. *t.* 8.

3. PLUMBAGO *scandens.* Leaves petiolate, ovate, glabrous. Stem flexuose, climbing. *L. sp.* 215. *Hort. kew.* i. 205. *Swartz. obs.* 61.

Dentellaria lychnoides sylvatica scandens, flore albo. *Sloane cat.* 91; *hist.* i. 211. *t.* 133. *f.* 1.

Caapomonga. *Marcgr.* 28, *cop. in Pis. ind.* 200.

CHILMECHATL. Hern. 140. No fructifications.

4. PLUMBAGO *rosea.* Leaves petiolate, ovate, glabrous, subdenticulate. Joints of the stem gibbose. *L. sp.* 215; *mant.* 335. *H. K.* i. 204. *Curt. mag. t.* 230.

Schetti codiveli. *Rheede* x. 17. *t.* 9.

Racemi to 10 inches long, flexible, straight. *Flowers* nearly sessile. *Bracteae* 2, the lower ovate; the upper bipartite and bifid; segments ovate, acute. *Corolla* pink; segments oval, acute, cuspidate.

Obs. 8340. Specimen gathered in Mr. Hunter's nursery.

RADIX VESICATORIA. Rumph. v. 453. *t.* 168.

134. MIRABILIS.

Calyx inferior. *Corolla* infundibuliform, globular at the base. *Filaments* united at the base, with a tooth between each. *Seed* 1, covered by the permanent base of the corolla. *Obs.* 5200. *L.*

Seems to differ from *Abronia* Juss. 448, in having a calyx.

1. MIRABILIS *pedunculata.* Flowers shorter than the leaves, pedunculate. *Obs.* 5200. In a garden.

M. Jalapa. *L. sp.* 252. *Hort. kew.* i. 234. *Curt. mag. t.* 371.

M. odorata. *Osb. trav.* i. 326.

Mirabilis. *L. ups.* 43. *Rumph.* v. 253. *t.* 89. *Browne* 166.

Jalapa flore purpureo. *Boerh.* i. 78.

Jasminum rubrum. *Dalech.* 1433.

Marabillas del Peru. *Clus. pann.* 400, *repr. in*

Mirabilia peruviana, flore luteo. *Ger. by Johns.* 343, *&*

Admirabilis peruana flore rubro. *Clus. hist.* ii. 89. *Sloane cat.* 91. In Jamaica.

Atzoyatl. *Hern.* 170, outer fig.

Jasminum mexicanum, sive Flos mexicanus multis. *Bauh. J.* ii. 814.

Mirabilia peruviana. *Park. parad.* 364. *t.* 361. *f.* 9.

MIRABILIS Jalapa. *Berg.* 101. *Coste & Willemet in med. comment.* v. 298. *Lour.* i. 124. *Schoepf* 23. *Wright in med. journ.* viii. 271.

β *alba.* Corolla white. *From H. K.* γ &

Admirabilis peruana, albo flore. *Clus. hist.* ii. 90, *repr. in*

Mirabilia peruviana flore albo. *Ger. by Johns.* 343.

2. MIRABILIS *dichotoma.* Flowers shorter than the leaves, sessile. *Obs.* 5201. Specimen gathered in the Vienna garden.—*L. sp.* 252. *Hort. kew.* i. 235.

MIRABILIS dichotoma. *Berg.* 99.

3. MIRABILIS *longiflora.* Flowers longer than the leaves, sessile. *Obs.* 1139. In a garden.—*L. sp.* 252. *Hort. kew.* i. 235.

Leaves sessile. *Calyx* campanulate, permanent; mouth quinquefid; segments subulate, patent. *Corolla* infundibuliform; tube at the base globular, fleshy, greenish, glabrous, permanent, and investing the germen after the separation of the upper part, above greenish white and purplish, glutinous, separating transversely from the globular base and falling off together with the limb; limb campanulate, plaited, quinquefid, white. *Stigma* globular, purple, composed of numerous short crowded threads turbinate at the ends. *Obs.* 1139.

MIRABILIS longiflora. *Berg.* 101.

135. CONVOLVULUS.

Calyx inferior, pentaphyllous. *Corolla* infundibuliformi-campanulate, plicate. *Stigmata* 2, and tri-

lobate. *Capsule* with 2, 3, and 4 cells. *Obs.* 3089. 3092. 7185. *L.*

1. *Stem twining.* L.

1. CONVOLVULUS *peltatus.* Leaves peltate. Peduncles multiflorous. *L. sp.* 221. *Forst. G. austral. n.* 78.

CONVOLVULUS laevis indicus major albus. *Rumph.* v. 428. *t.* 157. *f.* 1.

2. CONVOLVULUS *Jalapa.* Leaves cordato-ovate, obtuse, obsoletely repandose, villose underneath. Peduncles with from 1 to 3 flowers. *Obs.* 6897. Specimen in Sir Jos. Banks's herbarium gathered in Kew garden in 1780.—*Hort. kew.* i. 211. *L. mant.* 43, apparently from Miller. No specimen of it in the Linnaean herbarium.—*Mill. Ph. dict. n.* 31, who raised plants of it from seeds, but they produced no flowers.—*Woodv.* i. 59. *t.* 21, from a dried specimen in Aiton's herbarium as informed by the author. Peduncles with 2 flowers. Accords with the specimen in Sir Jos. Banks's herbarium. The corolla is described as yellowish, but very properly coloured purple as the corollae in the specimen from the Kew garden exhibit marks of purple.

C. americanus, Jalapium dictus. *Raii hist.* 742.

Bryonia Mechoacana nigricans. *Bauh. J.* ii. 151, *cop. by Johns. in Ger. by Johns.* 872. *n.* 3. No fig.

Peduncles with the marks of 2 and in one instance of 3 flowers. *Corolla* exhibiting marks of purple. *Obs.* 6897.

JALAPA. Pharm. austriaco-prov. 42.—*Alst.* i. 463. *Berg.* 100. *Geoffr.* ii. 81. *Neum.* ii. 111.

Jalappa. *Pharm. succ.—Beck, account from in phys. journ.* xi. 434. *Cartheus.* ii. 404. *Cull.* ii. 539. *Fordyce, G. pract.* 207; *W. fragm.* 66. *Hill* 549. *Linn.* 66. *Murr.* i. 502. *Ploucq. bibl.* i. 474. *Quarin animad.* 10. 157; *febr.* 377. *Schrod.* 768. *Spielm.* 641. *Vog.* 199.

Jalapium. Root. *Pharm. lond.—Dale* 183. *Lew.* ii. 2. *Mead mon.* i. 96; ii. 14. 108. *Mill. Jos.* 241. *Monro* iii. 138. *Oberne in phys. journ.* x. 38. *Rutty* 246. *Wintringham in Mead mon.* i. 205.

C. Jalapa. *Pharm. edin.—Lew. disp. by Dunc.* 206. *Murr. J.* i. 268. *Pearson, R.* i. 192; ii. 255. *Schoepf* 21.

Jalap. *Alibert & Dumeril, account from in chir. rev.* vi. 484. *Bree* 240. *Campet, account from in ann. med. lustr. II.* ii. 130. *Chalm.* i. 17. *Chom.* 58. *Clark, James, account from in ann. med.* ii. 165; *and chir. rev.* iv. 226. 288. *Cull. clin.* 309; *pract. n.* 1448. *Darw.* ii. 51. 130. *Davidson in Rush* iv. 109; v. 112. 171. *Fordyce G. fev.* ii. 55. 57; iii. 224. *Hammick in contrib.* 380. *Hull phlegmat.* 270. 295. *Hunter jam.* 212. 253. *Jackson, Rob. fev.* 284. 326. 331. *Hufeland, account from in med. rev.* ii. 446. *Lempriere* ii. 119. 165. 170. 214. *Monro, Don. sold.* ii. 81. *Rush* i. 127. 186. 218. 222; iii. 200. 244. 254; iv. 89. *Selden and Whitehead in phys. journ.* x. 271. *Underwood* i. 25. 56. 148. 149. 279. *Ware ophth.* 46.

Jallap. *Pott* ii. 71.

Gialappa. *Herm.* 123. *Swiet.* iv. 738.

3. CONVOLVULUS *Mechoacanna*. Leaves cordate. Fruit very large, tomentose. *Berg. mat. med. n.* 68, probably from authors as he gives no farther description.

Mechoacan. *Ger. by Johns.* 873, *cop. in*

Mechoacan. *Bauh. J.* ii. 149, with the addition of a flower.—*Dod.* 393. *repr. in*

Mechoacan peruviana. *Ger. by Johns.* 873, *& cop. in*

Bryonia alba peruana, sive Mechoacan. *Park. theatr.* 179. No flowers nor fruit.

MECHOACANNA. Pharm. austriaco-prov. 48. —*Berg.* 99. *Geoffr.* ii. 101. *Herm.* 128. *Lew. disp. by Dunc.* 341; *by Rother.* 194. *Linn.* 67; *amoen.* iii. 68. *Murr.* i. 507. *Rutty* 313. *Schrod.* 769. *Spielm.* 644. *Vog.* 240.

Mechoacana. *Alst.* i. 481. *Lew.* ii. 96.

Mechoacanna alba. *Cartheus.* ii. 408. *Chom.* 60. *Mill. Jos.* 288.

Mechoacana alba. *Dale* 183.

4. CONVOLVULUS *purpureus*. Leaves cordate, undivided. Fruit cernuous. Pedicles thickening. *L.—Hort. kew.* i. 209. *Mill. Ph. dict. n.* 4.

C. calycibus tuberculatis pilosis. *L. ups.* 38. *Gron. virg.* 29.

α major. Corolla purple. *Mill. Ph.—Hort. kew. α Curt. mag. t.* 113.

C. caeruleus, folio rotundo. *Johns. in Ger. by Johns.* 864, the leaf *cop. in*

C. caeruleus major, folio rotundo, sive Nil Avicennae. *Park. theatr.* 169.

C. major, caeruleus. *Park. parad. t.* 361. *f.* 1.

C. indicus, flore amplo roseo. *Ehret. t.* 7. *f.* 2.

C. major, folio subrotundo, flore purpureo. *Sloane hist.* i. 154. *t.* 98.

C. major, folio subrotundo, flore amplo purpureo. *Sloane cat.* 55.

Campanula indica. *Bauh. J.* ii. 165.

Stem twining from right to left. *Peduncles* with 2, 3, and 1 flower. *Bracteae* subulate, 2 at the base of the umbel, or single pedicle, and when there are more than one pedicle 2 also a little above the base of each pedicle, articulated just above the base, the upper part falling off and leaving an obtuse mucro. *Calyx* pentaphyllous, hirsute below on the outside; phylla acute, the 3 outer broader, subulato-linear, the 2 inner subulate. *Corolla* infundibuliformi-campanulate, four times longer than the calyx, tubular and purple from 11 at night to 2 in the morning, expanded before 5 in the morning some being purple others purple with specks of blue, becoming purplish blue in the course of the day, and shrivelling up before evening, deciduous; tube white; limb purplish blue with 5 reddish purple streaks. *Filaments* hirsute below. *Style* glabrous. *Stigma* roundish, depressed, trilobate, lobes granulose. *Capsule* trilocular, subrotundo-ovate, acuminate at the end. *Seeds* 2 and 1 in each cell. *Obs.* 7185. In a garden.

MECAPATLI mecatlensis. *Hernand.* 304.

5. CONVOLVULUS *bifidus*. Leaves cordate, oblong, acuminate, very soft underneath. Peduncles bifid, multiflorous. *L. a Willd.* i. 857, *from Vahl.*

α *lanuginosa*. Stem lanuginose. *From*

CONVOLVULUS laevis minor mas. *Rumph.* v. 431.

β *glaber*. Stem glabrous. *From*

CONVOLVULUS minor femina. *Rumph.* v. 431. *t.* 150.

6. CONVOLVULUS *Turpethum.* Leaves cordate, angular. Stem quadrangular; angles membranaceous. Peduncles multiflorous. *L. sp.* 221. *Hort. kew.* i. 211. *Forst. G. esculent.* 77; *austral. n.* 75.

C. indicus alatus maximus. *Raii hist.* 1882.

Turbith alexandrinum officinarum. *Lob. ic.* i. 371, *repr. in Ger. by Johns.* 415, *ill cop. in*

Turbith officinarum. *Park. theatr.* 1610. The root.

TURPETHUM. Pharm. austriaco-prov. 72.—*Alst.* i. 529. *Berg.* 97. *Geoffr.* ii. 145. *Lew.* ii. 441; *disp. by Rother.* 259. *Linn.* 66. *Murr.* i. 510. *Rutty* 529. *Schrod.* 776. *Spielm.* 647. *Vog.* 243.

Turbith. *Chom.* 63. *Dale* 183. *Herm.* 129. *Mill. Jos.* 443. *Neum.* ii. 113.

Turpethum vegetabile. *Cartheus.* ii. 419. *Quarin animad.* 186.

7. CONVOLVULUS *tomentosus.* Leaves trilobate, tomentose. Stem lanuginose. *L. sp.* 222?

C. polyanthos sub hirsutus, foliis cordato-ovatis quandoque lobatis, floribus fasciculatis alaribus calicibus longioribus hirsutis. *Browne* 152?

C. minor lanuginosus, folio subrotundo, flore caeruleo. *Sloane cat.* 58.

CONVOLVULUS tomentosus. *Lour.* i. 133.

8. CONVOLVULUS *panduratus.* Leaves cordate, trilobate, and panduriform. Calyces smooth. *From L. sp.* 219 *and Dill.—Hort. kew.* i. 208.

C. foliis cordatis integris panduriformibusque, calycibus laevibus. *Gron. virg.* 28.

C. scandens, foliis trilobis quandoque cordatis septinerviis, pedunculis minus ramosis alaribus. *Browne* 152.

C. megalorhizus, flore amplo lacteo fundo purpureo. *Dill. elth.* 101. *t.* 85. *f.* 99.

CONVOLVULUS panduratus. *Bart.* 30? *Schoepf* 21?

9. CONVOLVULUS *Nil.* Leaves cordate, with 3 lobes. Corolla semiquinquefid. Peduncles shorter than the petioles. *L.—Hort. kew.* i. 209. *Curt. mag. t.* 188. *Thunb. in linn. trans.* ii. 330.

Nil arabum quibusdam, sive C. caeruleus. *Bauh. J.* ii. 164.

Campana caerulea. *Dod.* 392, *repr. in*

C. caeruleus *Ger. by Johns.* 864, *& cop. in*

C. major, purpureus, sive trifolius. *Park. theatr.* 169.

C. trifolius, seu hederaceus. *Park. parad. t.* 361. *f.* 2.

IPOMOEA triloba. *Thunb. trav.* iii. 62.

10. CONVOLVULUS *Batatas.* Leaves cordate, hastate, with 5 ribs. Stem creeping, hispid, producing tuberous roots. *L. sp.* 220. *Hort. kew.* i. 210. *Lour.* i. 131. *Mill. Ph. dict. n.* 7. Spanish Potatoes.

C. radice tuberosa esculenta, spinachiae folio, flore albo fundo purpureo, semine post singulos flores singulo. *Sloane cat.* 53.

C. radice tuberosa esculenta. *Catesb.* ii. *t.* 60. Leaves entire at the margin, with 11 ribs, as long as the flowers.

Kappa-kelengu. *Rheede* vii. 95. *t.* 50.

Jetica. *Marcgr.* 16. Lower leaves angular, upper entire.

BATATAS. Dale 184.

C. Batatas. *Bryant* 5. *Pearson, R.* i. 55. *Schoepf* 21. *Wright in med. journ.* viii. 248.

Sweet Potatoes. *Edwards west ind.* i. 199.

α *luteus.* Roots yellow. *From authors.*

C. floribus paucioribus, pedunculis longis alaribus, radice crasso carnoso luteo. *Browne* 154.

CONVOLVULUS chrysorrhizus. *Forst. G. escul.* 55?

Sweet Potatoes. *Cook voy. 3rd.* iii. 269. 279. 308.

Potatoes. *Cook voy. 3rd.* ii. 144; iii. 129.

Potatoe slip. *Long* 774. *n.* 109.

β *albus.* Roots white. *From authors.*

Batatta alba. *Rumph.* v. 367. *t.* 130. *f.* 1.

C. foliis cordatis angulato-nervosis, caule repente tuberifero. *Gron. virg.* 28.

C. floribus paucioribus, pedunculis longis alaribus, radice crasso carnoso albo. *Browne* 154.

C. indicus, Batatas dictus. *Raii hist.* 728.

Battades Ignames. *Lob. adv.* 317, the roots, *cop. in*

Batatis affinis, Igname, sive Inhame. *Bauh. J.* ii. 793, *f.* 2, *and repr. in*

Batata hispanorum. *Lob. ic.* i. 647, outer figure, with the addition of a figure of a root and stems, which *repr. from obs.* 369, *and repr. in*

Batatas. *Clus. hist.* ii. 78, *&*

Sisarum peruvianum, sive Batata hispanorum. *Ger. by Johns.* 925, *& cop. in*

Batatas. *Bauh. J.* ii. 792, *and Dalech.* 1910, *and abr. in*

Battatas occidentalis indiae. *Park. theatr.* 1383.

Sisarum peruvianum. *Tab.* 482, *imit. in*

Battatas hispanorum. *Park. parad. t.* 517. *f.* 2.
CONVOLVULUS Batatas. *Clark, James in med. facts* vii. 305.
Sweet Potatoe. *Long* 774. *n.* 108.
γ *ruber.* Roots red. *From Rumphius.*
C. radice tuberosa esculenta minore purpurea. *Sloane cat.* 54.
BATATTA rubra. *Rumph.* v. 370. *t.* 130. *f.* 2.

11. CONVOLVULUS *mammosus.* Leaves cordate, acuminate, repandose. Tubera aggregate. *Lour.* i. 132.

12. CONVOLVULUS *maximus.* Leaves cordate, ovate, acuminate, entire at the margin, glabrous. Stem and petioles glabrous. *L. fil. suppl.* 137, who had not seen the flowers.
TIRU-TALI. *Rheede* xi. 109. *t.* 53. Leaves cordate, the upper hastate.

13. CONVOLVULUS *malabaricus.* Leaves cordate, glabrous. Stem perennial, villose. *L. sp.* 221.
C. foliis cordatis acuminatis, caule arboreo scandente. *Royen* 429.
KATTU-KELENGU. *Rheede* xi. 105. *t.* 51.

14. CONVOLVULUS *arvensis.* Leaves sagittate, the posterior angles entire. Peduncles with 1 and 2 flowers. Bracteae subulate, remote from the flowers. *Obs.* 3089. On banks on the sides of roads.—*Bot. arrang.* 213. *Smith engl. bot. t.* 312, calyces represented as dentate;—*brit.* 232. *L. suec. n.* 181; *sp.* 218; *a Murr.* 200. *Lightf.* 140. *Huds.* 88. *Sibth. ox.* 76; *prodr. n.* 457. *Pollich n.* 204, where for album read alvum.—*Curt. lond.* ii. 13.

t. 119. *Scop. carn. n.* 219. *Relh. n.* 184. *Fl. dan. t.* 459. *Krock. n.* 307. *Willd. berol. n.* 262. *Walc. t. Honck. n.* 592. *Roth germ.* ii. 235. *Lour.* i. 130, but he describes the corolla as short.

C. minor vulgaris. *Raii syn.* 275.

C. minor, arvensis, flore roseo. *Tourn. paris.* 72. *Vaill. paris.* 40. *Boerh.* i. 245.

C. minor purpureus. *Lob. obs.* 340, *repr. in ic.* i. 619,

C. minor. *Clus. hist.* ii. 50,

Smilax laevis minor. *Dod.* 389, &

Smilax lenis minor. *Ger. by Johns.* 861.

Helxine Cissampelos, sive Convolvulus. *Fuchs. ed. 12mo* 260. *c.* 98, *cop. in*

Helxine Cissampelos multis, sive C. minor. *Bauh. J.* ii. 157.

Volubilis minor. *Trag.* 806.

Helxine Cissampelos. *Dalech.* 1424.

Leaves sagittate, triangular, and hastate, the upper part sometimes oblong, ovato-oblong, and rounded at the end, sometimes emarginate; posterior angles acute, sometimes one of the angles truncate, sometimes with a solitary tooth between the angles and the base. *Obs.* 3089.

CONVOLVULUS minor. *Geoffr. suite* iii. 77.

Helxine Cissampelos. *Dale* 184.

C. minor, arvensis, flore roseo. *Chom.* 764; *suppl.* 204.

2 *albus*. Corolla white. *Obs.* 161. Near Worcester.

C. minor, arvensis, flore candido. *Tourn. paris.* 73. *Vaill. paris.* 40.

C. minor arvensis, flore albo. *Boerh.* i. 245.

15. CONVOLVULUS *sepium*. Leaves sagittate, the posterior angles mostly truncate. Peduncles four-

cornered, with 1 flower. Bracteae, cordate, close to the flower. *Obs.* 3092. In hedges.—*L. sp.* 218; *suec. n.* 182. *Bot. arrang.* 213. *Curt. lond.* i. 13. *t. Walc. t.*—*Smith engl. bot. t.* 313; *brit.* 233, who says the corolla is occasionally flesh coloured and sometimes deep rose coloured.—*Krock. n.* 308. *Fl. dan. t.* 458.

Smilax lenis, sive laevis major. *Ger. by Johns.* 861, *cop. in*

C. major albus. *Park. theatr.* 163.

Smilax levis. *Fuchs. c.* 275. *ed.* 12*mo* 682, *cop. in*

C. major. *Bauh. J.* ii. 154. Corolla snowy white. —*Raii syn.* 275, where Dillenius speaks of the corolla as sometimes flesh-coloured and rose-coloured, referring to Merret and Pluk.

C. major, albus. *Tourn. paris.* 72. *Vaill. paris.* 40. Corolla entirely white.

CONVOLVULUS major. *Geoffr. suite* iii. 74. *Murr.* i. 510. *Rutty* 137.

Smilax laevis. *Dale* 183.

C. major albus. *Chom.* 38; *suppl.* 18. *Mill. Jos.* 148.

16. CONVOLVULUS *Scammonia.* Leaves sagittate, the posterior margins with a tooth. Peduncles terete, with mostly 3 flowers. *Obs.* 6898. Specimen gathered in the garden of Fothergill.—*L. sp.* 218. *Lour.* i. 130. *Russel, Alex. in med. obs.* i. 25. *t.* 1, *abr. in Woodv.* 13. *t.* 5. *Hort. kew.* i. 207.

C. syriacus, et Scammonea syriaca. *Boerh.* i. 245.

Scammonium. *Dod.* 387. *repr. in Lob. obs.* 340,

Scammonium syriacum, antiochenum, Scammonee. *Lob. ic.* i. 620, &

Scammonium syriacum. *Ger. by Johns.* 866, *and cop. in*

Scammonia syriaca, flore majore convolvuli. *Bauh. J.* ii. 163.

Scammonia syriaca legitima. *Park. theatr.* 163. Corollae represented as quinquefid.

Scammonia syriaca. *Raii hist.* 722; *orient.* 18.

SCAMMONIUM. A gum resin. *Pharm. lond.* —*Alst.* ii. 467. *Berg.* 96. *Cartheus.* ii. 458. *Cull.* ii. 541. *Dale* 183. *Geoffr.* ii. 665. *Herm.* 686. *Hill* 769. *Lew.* ii. 348. *Linn.* 65. *Mead mon.* ii. 100. *Mill. Jos.* 400. *Monro* ii. 431. *Murr.* i. 494. *Neum.* ii. 33. *Quarin anim.* 300. *Rutty* 469. *Schrod.* 784. *Underw.* i. 72. 148. 201. 208*. 303. 343.

Scammonium aleppense. *Pharm. suec.*

Scammoneum. *Ploucq. bibl.* i. 486. *Spielm.* 644. *Vog.* 323.

C. Scammonia. *Pharm. edin.*—*Lew. disp. by Dunc.* 205. *Murr. J.* i. 276. *Pearson, R.* i. 194; ii. 255.

Scammony. *Alibert and Dumeril, account from in phys. journ.* iii. 167; *and chir. rev.* vi. 484. *Bisset ess.* 92. *Darw.* ii. 743. *Fordyce G. fev.* ii. 55; iii. 224. *Hufeland, account from in chir. rev.* vii. 62. *Monro, Don. sold.* ii. 81.

Scammonee d'Alep. *Chom.* 56.

Diagrydium. *Fordyce, W. frag.* 27.

17. CONVOLVULUS *Medium.* Leaves lineari-hastate, acuminate; auricles dentate. Peduncles uniflorous. Phylla sagittate. *L. sp.* 218; *mant.* 336, where for Camp. read Conv.—*Lour.* i. 130. *Hort. kew.* i. 208.

TALA-NELI. *Rheede* xi. 113. *t.* 55.

18. CONVOLVULUS *tridentatus*. Leaves cuneiform, tricuspidate, dilated and dentate at the base. Peduncles with 1 flower. *L. sp. ed.* i. 157; *a Willd.* i. 848. *Hort. kew.* i. 208.
Evolvulus tridentatus. *L. sp.* 392; *a Murr.* 299.
SENDERA-CLANDI. Rheede xi. 133. *t.* 65.

19. CONVOLVULUS *paniculatus*. Leaves palmate; lobes 7, ovate, acute, entire at the margin. Peduncles paniculate. *L. sp.* 223. *Donn* 38.
PAL-MODECCA. Rheede xi. 101. *t.* 49.
β *L. a Willd.* i. 865.
MODECCA. Rheede viii. 39. *t.* 20.

3. *Stem not twining.*

20. CONVOLVULUS *scoparius*. Leaves linear, slightly pilose. Peduncles with mostly 3 flowers. Calyces silky; phylla ovate, acute. Stem shrubby. Branches rodlike. *Hort. kew.* i. 213. *L. fil. suppl.* 135.
LIGNUM RHODIUM? L. fil. ib.

21. CONVOLVULUS *Cantabrica*. Leaves lanceolate and lanceolato-linear, hirsute. Stem branched, hirsute. Peduncles longer than the leaves. Calyces hirsute. *Obs.* 5211. Specimen from Prof. Jos. F. Jacquin.—*L. sp.* 225. *Host* 104. *Scop. carn. n.* 221. *Honck. n.* 594. *Gouan hort.* 94. Near Montpelier.—*Hort. kew.* i. 213 α. *Mill. Ph. dict. n.* 25. *Jacq. austr.* iii. 53. *t.* 296.
C. foliis lineari-lanceolatis acutis, caule ramoso recto, pedunculis bifloris. *Allion. nic.* 20. *Kram.* 45.
C. folio linariae humilior. *Boerh.* i. 247.
C. linariae folio assurgens. *Boerh.* i. 247.

C. spicaefolius. *Raii hist.* 726; *europ.* 105. In Sicily, Italy, and the south of France.—*Park. theatr.* 172, &

Volvulus terrestris. *Bauh. J.* ii. 160, *cop. from*

Cantabrica quorundam II. *Clus. hisp.* 385, *which repr. in hist.* ii. 49,

C. minimus spicaefolius. *Lob. obs.* 342; *ic.* i. 622. *f.* 1, *and Ger. by Johns.* 862, & *abr. in*

C. linariae folio. *Hist. ox.* ii. 17. *s.* 1. *t.* 4. *f.* 3, judging from the proportionate lengths of the peduncles and leaves, but the lineate leaves would lead one to suspect that the drawing was made from an inspection of C. Cantabrica and C. lineatus.—*Lob. adv.* 274, *repr. in ic.* i. 622. *f.* 2, has also lineate leaves.

Volvulus terrestris. *Dalech.* 1425.

Stem 17 inches long, pilose, with lateral branches below and peduncles above; hairs yellowish. *Leaves* lanceolate, alternate, hirsute, not silky, to three tenths of an inch broad; veins of the upper surface slightly depressed. *Panicles* terminal and lateral, capitate, dichotomous, consisting of from 2 to 7 flowers; branches very short. *Peduncles*, the lateral ones axillary, twice as long as the leaves, piloso-sericeous, not shining; hairs adpressed, some patent. *Bracteae* lineari-lanceolate, 2 at the base of each panicle, nearly as long as the panicle, and others at the base of the divisions of the panicle. *Pedicles* shorter than the calyx. *Calyces* hirsute; outer phylla ovato-lanceolate; inner ovate below, subulate above. *Corolla* sericeous on the outer side at the angles. *Obs.* 5211.—*Root* woody. *Stems* numerous, erect, pilose, 7 inches long. *Leaves* linear, and lanceolato-linear, silky and pilose. *Flowers* in

terminal heads. *Obs.* 6893. Specimen gathered by M. Broussonett on Montserrat in Spain.
CANTABRICA. Dale 184.

22. CONVOLVULUS *reptans.* Leaves hastato-lanceolate; auricles rounded, Stem creeping. Peduncles uniflorous. *L. a Murr.* 203; *sp.* 225. *Osb. trav.* i. 313. *Lour.* i. 133.
OLUS VAGUM. Rumph. v. 419. *t.* 155. *f.* 1.

23. CONVOLVULUS *biglandulosus.* Leaves emarginate, with a very short acumen. Petioles with 2 glands at the end. Peduncles with mostly 3 flowers. *From Plumier &*
C. brasiliensis. *L. sp.* 226. *Hort. kew.* i. 215.
C. maritimus, foliis nitidis subrotundis emarginatis, petiolis biglandulis. *Browne* 153.
C. marinus catharticus, folio rotundo, flore purpureo. *Plum. amer.* 89. *t.* 104. Peduncles with 3, 4, and 1 flower.
C. marinus, sive Soldanella brasiliensis. *Marcgr.* 51.
C. marinus. *Pis. ind.* 258. *repr. from*
Salsa do Praya. *Pis. bras.* 103.
CONVOLVULUS brasiliensis. *Schoepf* 22. *Wright in med. journ.* viii. 247.

24. CONVOLVULUS *Soldanella.* Leaves reniform, or cordate. Peduncles with 1 flower. Bracteae cordato-oblong, close to the flower. *Obs.* 4501. Specimen gathered at Ostend.—*L. sp.* 226. *Bot. arrang.* 214. *Smith engl. bot. t.* 314; *brit.* 233. *Scop. carn. n.* 222. Near Trieste and Molo.
C. foliis reniformibus, pedunculis unifloris. *Gouan hort.* 94. On the sea coast near Montpelier.

C. maritimus nostras rotundifolius. *Boerh.* i. 245. In Holland.

C. maritimus, Soldanella dictus. *Raii syn.* 276.

Brassica marina. *Cord. fol.* 205. *p.* 2.

Brassica marina, Soldanella officinarum. *Dalech.* 526.

Soldanella marina. *Raii hist.* 726. *Ger. by Johns.* 838, *repr. from*

Soldanella. *Dod.* 391, *which repr. in Lob. obs.* 329, *and*

Soldanella, sive Brassica marina. *Lob. ic.* i. 602, *& cop. in*

Soldanella, sive Volubilis marina. *Park. theatr.* 167, *inner figure, &*

Brassica marina, sive Soldanella. *Bauh. J.* ii. 166. On the sea shore near Venice, Genoa, and Montpelier, and on the coast of Holland.

Leaves mostly emarginate. *Obs.* 4501.—*Leaves* reniformi-cordate, cuspidate. *Obs.* 8341. Specimen gathered by M. Broussonett, probably near Montpelier.

SOLDANELLA. Alst. ii. 229. *Berg.* 98. *Dale* 183. *Geoffr. suite* iii. 95. *Herm.* 539. *Linn.* 67. *Murr.* i. 512. *Schrod.* 775. *Vog.* 120.

C. Soldanella. *Bryant* 63.

C. maritimus. *Rutty* 137.

Brassica marina. *Lew.* i. 238; *disp.* 108. *Mill. Jos.* 92.

Soldanella maritima minor. *Chom.* 18; *suppl.* 7.

25. CONVOLVULUS *capripes.* Leaves cordate, emarginate. Peduncles with 1 flower. Stem creeping. *From Royen, Rumphius's figure, &*

C. Pes caprae. *L. sp.* 226. *Hort. kew.* i. 214.

Schovanna-adamboe. *Rheede* xi. 117. *t.* 57. Leaves emarginate.

C. maritimus, seu Soldanella e maderaspatan, folio in summitate sinuato. *Pluk. phyt. t.* 24. *f.* 4. No fructifications.

C. maritimus zeylanicus, folio crasso cordiformi. *Herm. hort.* 174. *t.* 175. Corolla repandose at the margin.—*Raii hist.* 1881.

C. maritimus majore folio chinensis. *Pluk. t.* 24. *f.* 5. A leaf.

CONVOLVULUS marinus. *Rumph.* v. 433. *t.* 159. *f.* 1. Corolla pentagonal at the margin.

26. CONVOLVULUS *edulis.* Leaves cordate, entire trilobate and quinquelobate, glabrous. Stem creeping, angular. *From L. a Willd.* i. 875.

CONVOLVULUS edulis. *Thunb. trav.* iii. 82; iv. 84, 89.

136. IPOMOEA.

Corolla infundibuliform. *Stigma* capitato-globose. *Capsule* trilocular. *L.*

1. *Leaves simple. Flowers distinct.* L. a Gmel.

1. IPOMOEA *campanulata.* Leaves cordate. Peduncles multiflorous. Outer calyx orbicular. Corolla campanulate, lobate. *L. sp.* 228.

ADAMBOE. Rheede xi. 115. *t.* 56.

2. IPOMOEA *Quamoclit.* Leaves pinnatifid, linear. Flowers mostly solitary. *L.—H. K.* i. 215. *Curt. mag. t.* 244.

Convolvulus pennatus exoticus, Quamoclit. *Col. aquat.* 73. *t.* 72. *Bauh. J.* ii. 177.

Quamoclit, sive Jasminum americanum. *Clus. cur.* 9, *repr. in*

Quamoclit, sive Convolvulus pennatus. *Ger. by Johns.* 1598, *cop. in*

Convolvulus pennatus americanus. *Park. theatr.* 169.

Tsjuria-cranti. *Rheede* xi. 123. *t.* 60.

FLOS CARDINALIS. Rumph. v. 421. *t.* 155. *f.* 2.

3. IPOMOEA *tuberosa.* Leaves palmate; lobes 7, lanceolate, acuminate, entire at the margin. Peduncles triflorous. *L. sp.* 227; *a Murr.* 204. *Hort. kew.* i. 216. *Jacq. amer.* 8*vo* 37, who describes the peduncles as multiflorous.

I. foliis palmatis, lobis septenis lanceolatis integerrimis. *L. ups.* 39.

I. heptadactyla major scandens, flore majori campanulato, calice membranaceo, seminibus majoribus villosis. *Browne* 155.

Convolvulus major, heptaphyllos, flore sulphureo odorato speciosissimo. *Sloane cat.* 55; *hist.* i. 152. *t.* 96. *f.* 2. No fructifications.

Convolvulus americanus, Mandiocae multifido folio, heptaphyllos, flore albo fundo purpureo, radice tuberosa, cortice albo. *Pluk. alm.* 116. *t.* 276. *f.* 6. No fructifications.

Leaves pedato-septempartite; folioles lanceolate, cuspidate. *Obs.* 8351. In Mr. Sitwell's garden.—*Folioles* acuminate, rounded at the end with a minute cuspis. *Obs.* 8650. Specimen gathered by Broughton in Jamaica.

IPOMOEA tuberosa. *Lour.* i. 138, but the corolla is described as purple.

2. *Leaves simple. Flowers aggregate.* L. a Gmel.

4. IPOMOEA *tigripes.*—Leaves palmate. Flowers aggregate. *L.*

I. Pes tigridis. *L. sp.* 230. *Hort. kew.* i. 217.

Volubilis zeylanica, Pes tigrinus dicta. *Dill. hort.* 429. *t.* 318. *f.* 411.

Convolvulus zeylanicus villosus pentaphyllos et heptaphyllos minor, Pes tigrinus. *Herm. hort.* 184. *t.* 187.

PULLI-SCHOVADI. Rheede xi. 121. *t.* 59.

137. POLEMONIUM.

Calyx inferior, quinquefid. *Corolla* rotate and infundibuliform; mouth of the tube closed by the base of the filaments. *Filaments* ovate at the base. *Stigmata* 3. *Capsule* trilocular. *Obs.* 7103. 874. *L.*

1. POLEMONIUM *caeruleum.* Leaves pinnate. Tube of the corolla shorter than the calyx. *Obs.* 7103.

In thickets and meadows between Alport and Rowsley, Derbyshire.—*L. sp.* 230; *suec. n.* 183. *Bot. arrang.* 215. *Smith engl. bot. t.* 14; *brit.* 234. *Fl. dan. t.* 255.

Polemonium. *L. lapp.* 86.

P. vulgare caeruleum et album. *Dill. ap. Raii syn.* 228.

Valeriana graeca. *Raii cat. ed.* i. 310. Found by Lister in Carleton-beck at the falling of it into the

Air;—*ed.* ii. 228, but more plentifully both with a blue flower and a white about Malham near Settle in Yorkshire.—*Park. parad.* 388. *t.* 387. *f.* 6. *Dod.* 348, *repr. in Ger. by Johns.* 1076, *and cop. in Park. theatr* 123, &

Valeriana graeca quorundam, colore caeruleo et albo. *Bauh. J.* iii. *b.* 212. In the country of the Grisons.

Stems erect, straight, brittle, villosulose, pubescent above, angular; angles canaliculate. *Leaves* villosulose; folioles to 14 pairs with an odd one at the end, ovato-lanceolate, unequal at the base, glabrous above, villosulose underneath. *Flowers*, the upper expanding and producing fruit the first. *Calyx* cyathiform, quinquefid, pubescent; segments semi-elliptic, erect, with a line along the middle. *Corolla* rotate, twice and a half as long as the calyx; tube whitish, three times shorter than the tube of the corolla; limb horizontal, quinquepartite, purplish blue, whitish at the base with blackish lines; segments rhombeo-subrotund, incumbent, lineate. *Nectarium* green, glandular, scutelliform, surrounding the base of the germen, half as long as the germen. *Stamina* inserted into the mouth of the tube of the corolla. *Filaments* white, ovate and villose at the base, above filiform, blue. *Antherae* orange-yellow, oval. *Germen* ovato-subrotund. *Stigmata* subulato-linear, recurvate. *Obs.* 7103.

Native of Scandinavia, Silesia, Hesse, Switzerland, the country of the Grisons, and of Yorkshire and the north of Derbyshire, on limestone.

POLEMONIUM caeruleum. *Krock. n.* 309.

β *album.* Corolla white. *Obs.* 4. In a garden.—*Mill. Ph. dict. n.* 1. *Hort. kew.* i. 218 β

138. CAMPANULA.

Calyx superior, quinquepartite pentaphyllous and hexaphyllous. *Corolla* campanulate and rotate, with 5 and 6 divisions. *Filaments* dilated at the base. *Stigma* trifid and quinquefid. *Capsule* with 3, 5, and 6 cells, opening with lateral apertures. *Obs.* 6501. *L.*

1. *Capsules obpyramidal. Leaves glabrous.*

1. CAMPANULA *Rapunculus*. Leaves lanceolate, crenato-serrate, undulate. Panicle coarctate. *Obs.* 4499. Specimens gathered in a nursery near Enville, Shropshire, where it appeared to grow as a weed, and in a pasture near the garden at Hindlip near Worcester, in both which places possibly only a naturalised plant.—*L. sp.* 232. Biennial.—*Bot. arrang.* 217, the description from the plant gathered at Enville.—*Smith engl. bot. t.* 283; *brit.* 236. *Roth germ.* i. 98. Perennial.—*Gouan hort.* 96. Near Montpelier.

CAMPANULA Rapunculus. *Bryant* 27. *Krock. n.* 312.

C. esculenta. *Dale* 184.

Rapunculus esculentus. *Chom.* 813. *Geoffr. suite* ii. 205.

α *caerulea.* Corolla blue. *Obs.* 4499.

C. radice esculenta, flore caeruleo. *Tourn. paris.* 63. *Vaill. paris.* 27. *Boerh.* i. 248. Biennial.

Rapunculus esculentus vulgaris. *How* 104. *Raii cat. ed.* i. 263; *ed.* ii. 253. On ditch banks and the borders of fields, but rather rare.

Rapunculus esculentus. *Raii hist.* 739; *syn.* 277. On ditch banks and in fallow fields. Annual.

Rapum sylvestre sive Rapunculus. *Fuchs.* 214. *c.* 77, *cop. in*
Rapunculus vulgaris campanulatus. *Bauh. J.* ii. 795, *&*
Rapunculus minor. *Dalech.* 641, *and improved in*
Rapunculum vulgare. *Trag.* 725.
Rapunculum. *Dod.* 165, *repr. in*
Rapuntium parvum, Pes locustae Avicennae. *Lob. ic.* i. 328, *&*
Rapuntium parvum. *Ger. by Johns.* 453, *and cop. in*
Rapunculus esculentus vulgaris. *Park. theatr.* 648.
Rapunculus. *Park. parad. t.* 511.
Lesser Garden Rampion. *Park. parad.* 514.

Stem erect, angular, glabrous, smooth. *Branches* erect. *Calyx* superior, quinquepartite; segments subulate, with one and two patulous teeth near the base. *Germen* turbinate, with 3 depressions on the outside. *Capsule* with 3 cells. *Obs.* 6501. In Mr. S. Shore's garden.

Native of Italy, France, and Germany, but possibly only naturalised in England.

2. *Capsules obpyramidal. Leaves scabrous.*

2. CAMPANULA *rigida.* Leaves serrate, the lowermost cordate, the upper ovate and elliptico-ovate. Flowers secundose, nutant. Germen pubescent. *Obs.* 6890. Specimen gathered in the nursery of Messrs. Brunton and Hunter.

C. rapunculoides. *Smith brit.* 237. Found by Dr. Skrimshire at Blair;—*engl. t.* 1369.—*L.*—*Roth germ.* ii. 254.

C. hortensis, rapunculi radice. *Tourn. paris.* 406. *Vaill. paris.* 26.

C. repens, flore minore caeruleo. *Bauh. J.* ii. 806, stem and branches represented as nutant; *imit. in* C. hortensis, rapunculi radice. *Hist. ox. s.* 5. *t.* 3. *f.* 32.

Stem rigid like that of *Cichorium Intybus*, erect, from 9 to 30 inches long, pubescent, rough to the touch, rarely branched; branches 3, half as long again as the leaves. *Leaves*, the lower petiolate, the upper sessile, pubescent, rough to the touch. *Racemi* terminal, 4 to 14 inches long, leafy below. *Flowers* remote below, gradually more approximate upwards. *Peduncles* mostly shorter than the calyx, with 1 flower, the lower sometimes with 2 and 3 flowers. *Calyx* quinquepartite, pubescent; phylla ensiform, entire at the margin. *Corolla* obpyramidali-campanulate, twice and a half as long as the calyx, with lanuginose hairs on the inside. *Germen* obpyramidal; hairs deflex, acute. *Style* scabrous. *Stigmata* 3. *Fruit* cernuous. *Capsule* with apertures at the base. *Obs.* 6890.—*Stems* erect, and bowed, 13 inches long. *Obs.* 6891. Specimen gathered between Ostend and Paris.

CAMPANULA rapunculoides. *Krock. n.* 315.

Rapi sylvestris quartum genus. *Dod.* 165. No figure.

3. CAMPANULA *latifolia.* Leaves serrate, ovate and elliptico-ovate. Peduncles of the fruit cernuous. Germen glabrous. *Obs.* 5872. Between Uttoxeter and Ashbourne.—*L.*—*Bot. arrang.* 218. *Huds.* 96. Near Holywell Flintshire. *Smith engl. bot. t.* 302; *brit.* 236. *Fl. dan. t.* 782.

Trachelium majus belgarum, sive giganteum. *Ger. by Johns.* 448, *repr. from*

Trachelium majus belgarum. *Clus. hist.* ii. 172, & *cop. in Park. theatr.* 643.

C. maxima foliis latissimis. *Raii syn.* 276.

C. pulchra a Tossano Carolo missa. *Bauh. J.* ii. 276. The hairs on the inside of the corolla too conspicuous.

Calyx superior; phylla 5, minutely serrate. *Corolla* blue. *Obs.* 5872.

Native of Sweden, the north of Germany, the northern parts of Britain, and southwards as far as Flintshire, Staffordshire, Bedfordshire, and Suffolk, on limestone, marle, gravel, and gritstone.

CAMPANULA latifolia. *Gough in bot. arrang. ed.* IV. ii. 239.

β *alba.* Corolla white. *From Mill. Ph. dict. n.* 5.

C. latifolia. *Fl. dan. t.* 85.

Trachelium candidum anglicum majus, foliis fere digitalis vel campanulae. *Bauh. J.* ii. 807.

4. CAMPANULA *Trachelium.* Stem angular, hispid. Leaves serrate. Peduncles of the fruit cernuous. *Obs.* 4077. Specimen gathered near Worcester.—*L.*—*Bot. arrang.* 218. *Smith brit.* 238. *engl. t.* 12; hairs not expressed.

Cervicaria major. *Dod.* 164, *abr. in*

Trachelium giganteum. *Park. parad. t.* 355. *f.* 4, *and repr. in*

Trachelium majus. *Ger. by Johns.* 448.

C. vulgatior, foliis urticae, vel major et asperior. *Raii syn.* 276. *Tourn. paris.* 407. *Vaill. paris.* 26.

Campanula. *Fuchs.* 425. *c.* 166, *cop. in*

C. major et asperior folio urticae. *Bauh. J.* ii. 805, *and abr. in*

Uvularia. *Trag.* 927.

TRACHELIUM. Dale 185.
Uvularia. *Geoffr. suite* iii. 419.

5. CAMPANULA *Cervicaria.* Hispid. Flowers sessile. Capitulum terminal. Leaves lanceolato-linear, undulate. *L. suec. n.* 191; *sp.* 235. *Hort. kew.* i. 222. *Host* 108. *Pollich n.* 213. *Schreb. spic.* 6. *Reich. moeno-frank.* ii. 196. Specimen gathered by Senckenberg.—*Honck. n.* 650. *Fl. dan. t.* 787. Style longer than the corolla.

C. caule simplici aspero, foliis lingulatis asperis, floribus capitatis. *Hall. hist. n.* 636.

C. hispida, floribus sessilibus, capitulo terminali, foliis lanceolato-linearibus undulatis. *Kram.* 48.

C. foliis echii. *Bauh. Casp. prodr.* 36.

Trachelium altissimum, foliis asperis angustis, floribus parvis. *Bauh. J.* ii. 801.

Rapunculus umbellatus angustifolius. *Bauh. Casp. pin.* 92.

Rapunculus sylvestris caeruleus umbellatus major. *Thal.* 94.

Rapunculus sylvestris umbellatus. *Thal. t.* 8. *f.* 1, *cop. in Park. theatr.* 649, outer fig. &

Rapunculus sylvestris caeruleus umbellatus major italicus. *Barr. t.* 523. *f.* 2.

Native of Germany and Sweden.

CAMPANULA Cervicaria. *Krock. n.* 318.

3. Capsules obpyramidal. Alternate segments of the calyx reflex.

6. CAMPANULA *Medium.* Capsules with 5 cells. Stem erect, simple, leafy. Flowers erect. *L.*—*Mill. Ph. dict. n.* 3. *Roth germ.* ii. 258. *Hort. kew.* i. 223. *Krock. n.* 320.

Viola mariana. *Dod.* 163, *repr. in Ger. by Johns.* 448, *and abr. in Park. parad.* 354. *t.* 355. *f.* 3.
Viola mariana Dodonaei, quibusdam Medium. *Bauh. J.* ii. 804.

Floral leaves, the lowermost thrice as broad as the stem. *Panicle* pyramidal. *Peduncles*, the lowermost 6 times as long as the flowers, with from 4 to 6 oblong bracteae, the uppermost shorter than the flowers, with 2 bracteae. *Corolla* campanulate, ventricose at the base, with short hairs along the lines in the middle of the segments, and long hairs on the inside; more than twice as long as the calyx. *Obs.* 138.
VIOLA mariana. *Dale* 185.

7. CAMPANULA *edulis*. Stem branched, hispid. Leaves ovate, acute, serrate, sessile. *L. à Gmel.* ii. 350.
CAMPANULA edulis. *Forsk.* 44.

4. *Capsules columnar or prismatic.*

8. CAMPANULA *Speculum*. Capsules prismatic. Leaves oblong, subcrenate. Stem much branched. Segments of the calyx lineari-lanceolate, and lanceolate, as long or nearly as long as the germen. *Obs.* 135. *L.—Hort. kew.* i. 224. *Curt. mag. t.* 102.
Speculum veneris. *Willich obs.* 50, *in n.* 87. *Ger. by Johns.* 439, *repr. from*
C. arvensis minima. *Dod.* 168, *& cop. in*
Avicularia Sylvii quibusdam. *Bauh. J.* ii. 800, with the addition of a branch in fruit. Flowering branches represented as leafy and with only 1

flower. Hence it possibly might have been intended as Tournefort thinks for *C. hybrida.*

C. arvensis erecta. *Tourn. paris.* 252. *Vaill. paris.* 27, who remarks that it is generally decumbent.

Branches axillary, with 3 and 4 flowers. *Floral leaves* oblong, lanceolate, and lanceolato-linear. *Corolla* in some plants as long as the calyx. *Obs.* 135. Specimen gathered in a garden.—*Corolla* longer than the calyx. *Obs.* 5410. Specimen gathered in a garden by Mr. Hollefear.

CAMPANULA arvensis erecta. *Krock. n.* 324.

9. CAMPANULA *pentagona.* Stem very much branched. Leaves linear, acuminate. *From L.* —*Salisb. W.* 19.

C. Pentagonia. *L. sp.* 239. *Mill. Ph. dict. n.* 11. Lower leaves oblong, obtuse, those towards the ends of the branches narrower and pointed. Has been long in the English gardens.

C. pentagonia, flore amplissimo, thracica. *Boerh.* i. 248.

Speculum veneris flore amplissimo, thracicum. *Raii hist.* 742. Cultivated by Dent from seeds gathered by Covill in Thrace.

CAMPANULA Pentagonia. *Bryant* 59.

139. PHYTEUMA.

Calyx superior, pentaphyllous. *Corolla* rotate, quinquepartite; segments linear. *Stigma* bifid and trifid. *Capsule* bilocular and trilocular. *Obs.* 4627. *L.*

1. PHYTEUMA *orbiculare*. Head roundish. Leaves crenate and serrate, ovato-oblong, and lanceolate. Bracteae ovato-lanceolate. *Obs*. 4625. Specimen gathered in Surry on chalk.—*L. sp*. 242, who characterises the radical leaves as cordate. Judging from my specimens and Columnas figure, the cordate leaves are to be found only on the stems which are to flower the succeeding year.—*Jacq. austr*. v. *t*. 437. *Huds*. 97. *Bot. arrang*. 220. *Smith engl. bot. t*. 142; *brit*. 240.

Rapunculus folio oblongo, spica orbiculari. *Tourn. paris*. 527. *Vaill. paris*. 171.

Rapuntium montanum rarius corniculatum. *Col. ecphr*. i. 223. *t*. 224, *cop. in*

Rapunculus folio oblongo, spica orbiculari. *Hist. ox. s*. 5. *t*. 5. *f*. 47,

Rapunculus corniculatus caeruleus minor. *Barr. t*. 525, &

Rapunculus corniculatus montanus. *Ger. by Johns*. 455. *Raii hist*. 744; *syn*. 278. In many places on the Downs of Sussex and Hampshire. (The 7th paragraph in that page does not belong either to n. 2. or n. 1, but to n. 4 of p. 277, as evident from a comparison of the following synonyms.) *Raii cat. ed*. i. 263; *ed*. ii. 252; *syn. ed*. i. 104; *ed*. ii. 159, where the paragraph in the index of ed. i. 301 is erroneously placed under the second species of Rapunculus in p. 159, instead of Rapunculus esculentus of p. 158.

Aphyllanthes II. *Dalech*. 864.

Rapunculus corniculatus caeruleus montanus major italicus. *Barr. t*. 526.

Rapunculus alopecuroides orbiculari pene spica. *Clus. hist*. ii. 173. No fig.

Rapunculus flore globoso purpureo. *Bauh. J.* ii. 810. (The fig. is Campanula rotundifolia.)

Stem 6 to 14 inches long. *Bracteae* ciliate. *Stigmata* 3 and sometimes 2, very slightly pilose; hairs very short. *Obs.* 4625.—*Stem* 2 feet long. *Obs.* 4626. Specimen gathered in Saville's garden, from a root dug up near Eartham in Surry.

PHYTEUMA orbiculare. *Spielm.* 67, who may have inserted it as an article of food on the authority of the misplaced paragraph of Ray's synopsis above noticed. The roots however, I doubt not, are equally good with those of

2. PHYTEUMA *spicatum*. Spike oblong. Leaves serrate, the lower cordate. Bracteae subulate. Capsules with 2 cells. *Obs.* 4627. Specimen from Prof. Jos. F. Jacquin.—*L. sp.* 242. *Hort. kew.* i. 226. *Fl. dan. t.* 362.

Rapunculus spicatus. *Raii hist.* 743; *europ.* 217. Near Spa and Geneva.

Rapunculus spicatus caeruleus. *Bauh. Casp. prodr.* 32, *cop. in*

Rapunculus corniculatus spicatus sive alopecuroides, flore albo et caeruleo. *Hist. ox. s.* 5. *t.* 5. *f.* 46.

Rapunculus spicatus, flore flavescente. *Tourn. paris.* 526. *Vaill. paris.* 171.

Rapunculus spicatus albus. *Vaill. paris.* 171.

Rapunculum sylvestre. *Trag.* 726.

Rapunculus spicatus, sive comosus, albus et caeruleus. *Bauh. J.* ii. 809.

Rapunculum alopecuron. *Dod.* 165, *repr. in*

Rapuntium majus, alopecuri comoso flore. *Lob. ic.* i. 329,

Rapunculus alopecuroides, longiore spica. *Clus. hist.* ii. 171, &

Rapuntium majus. *Ger. by Johns.* 453, & *cop. in*

Rapunculus spicatus alopecuroides. *Park. theatr.* 648.

Rapunculus major. *Dalech.* 641.

Greater garden Rampions. *Park. parad.* 514. No fig.

Leaves, the 2 lowermost stem leaves cordate, doubly serrate; secondary serratures crenato-serrate. *Calyx*, phylla subulate. *Petals* linear, veined; veins longitudinal. *Stigmata* 3 and 2, slightly pilose. *Obs.* 4627.

PHYTEUMA spicatum. *Krock. n.* 327. *Spielm.* 67.

Rapunculus spicatus. *Geoffr. suite* ii. 207.

Phyteuma. *Darbalestrier in med. comment. dec. II.* v. 445?

3. PHYTEUMA *pinnatum*. Leaves pinnate. *From* P. pinnata. *L.—H. K.* iii. 486.

Petromarula cretica, sive Rapunculus creticus. *Park. theatr.* 649, *cop. from*

RAPUNCULUS creticus Petromarula. *Bauh. J*, ii. 811.

140. LOBELIA.

Calyx superior, quinquepartite. *Corolla* superior, cloven longitudinally along the upper side; limb quinquefid. *Antherae* united by the edges into a cylinder. *Capsule* with from 2 to 5 cells. *Obs.* 2963.—*L.*

Natives of the 4 quarters of the globe.

1. *Leaves not entire at the margin. Peduncles solitary.*

1. LOBELIA *longiflora.* Peduncles axillary, with 2 bracteae. Leaves lanceolate, sinuato-dentate. Tube of the corolla many times longer than the peduncles. *Obs.* 3345. Specimen gathered in Mr. Wilkinson's garden.—*L. sp.* 1319; *mant.* 482. *Hort. kew.* iii. 283. *Jacq. hort.* i. *t.* 27.

L. foliis lanceolatis dentatis, pedunculis brevissimis lateralibus, tubo floris tenui longissimo. *Browne* 322.

Rapunculus aquaticus, foliis cichorii, flore albo tubulo longissimo. *Sloane cat.* 58; *hist.* i. 158. *t.* 101. *f.* 2.

Trachelium sonchi folio, flore albo longissimo. *Plum. a Burm. t.* 253. *f.* 1.

LOBELIA longiflora. *Jacq. amer.* 219, *repr. in 8vo,* 281.

2. *Flowers in racemi.*

2. LOBELIA *reflexa.* Sinuses of the calyx reflex. *Obs.* 4217. In a garden.

L. syphilitica. *L. amoen.* iv. 524; *sp.* 1320; *mant.* 482. *Hort. kew.* iii. 284. *Woodv.* i. 177. *t.* 63, separate leaf uncoloured.

Rapuntium americanum, flore dilute caeruleo. *Boerh.* i. 250.

Rapunculus galeatus virginianus, flore violaceo majore. *Hist. ox. s.* 5. *t.* 5. *f.* 55.

Lactescent, acrid when chewed some little time, but not fiery as L. longiflora. *Stem* erect, angular, slightly hairy, leafy to the end, frequently with a purplish red tinge. *Leaves* lanceolate, slightly pubescent; margin serrato-dentate; teeth whitish at the ends, pointing different ways, irregularly placed, mostly alternate, sometimes several near together. *Racemus* terminating, leafy. *Peduncles* shorter than the calyx. *Bracteae* 2, awlshaped, opposite, at the base of the calyx. *Calyx* more than half as long as the corolla, exceedingly similar to that of some of the Campanulas; *segments* sagittate, tapering at the end, reflected at the sides, sparingly dentate, slightly pubescent at the margin. *Petals*, the 2 smaller below separate from each other their whole length, and also from the larger below and above, but agglutinated by their edges to the edges of the larger one, so as to give it the appearance of a tube as Linnaeus has described it. The same structure takes place in all the other species which I have hitherto examined. *Capsule* cells 2. *Obs.* 4217.

LOBELIA syphilitica. The root. *Pharm. edin.* —*Chisholm* 25. *Lew. disp. by Dunc.* 249. *Pearson, J. account from in ann. med. lustr. II.* i. 271; *and chir. rev.* vii. 161.

Lobelia. *Bart.* 36. *Lew.* ii. 73. *Linn.* 231; *amoen.* iv. 524. *Monro* iii. 160; *sold.* ii. 243. *Murr.* i. 514. *Rush* i. 31. *Schoepf* 128. *Vog.* 108.

Tau-tuttipang. *Mather in phil. trans. abr. by Jones* v. *part* ii. 160; *and by Hutton* vi. 86.

3. LOBELIA *coccinea*. Racemus terminal, secundose. Leaves lanceolate, serrate, or dentate. *Obs.* 4209. Specimen gathered in New England by Dr. Cutler.

L. Cardinalis. *L.—H. K.* iii. 284. *Curt. mag. t.* 320.

L. caule erecto, foliis lanceolatis obsolete serratis, racemo terminatrici. *Gron. virg.* 134.

L. caule erecto, foliis lanceolatis serratis, spica terminali. *L. ups.* 276. *Cutler in amer. acad.* i. 484.

Flos Cardinalis Barberini. *Col. ap Hern.* 880.

Cardinalis Rivini. *Rupp. ab Hall.* 248.

Rapuntium galeatum virginianum, coccineo flore majore. *Hist. ox. s.* 5. *t.* 5. *f.* 54.

Trachelium americanum, sive Cardinalis planta. *Park. parad. t.* 355. *f.* 6.

LOBELIA Cardinalis. *Bart.* 41.

4. LOBELIA *inflata.* Racemi terminal. Leaves ovate, serrate, longer than the peduncles. Capsules inflated. *Obs.* 4212. *L.—H. K.* iii. 284.

LOBELIA inflata. *Bart.* 38. *Schoepf* 128.

141. SAMOLUS.

Corolla hypocrateriform. *Stamina* defended by the scales of the corolla. *Capsule* with 1 cell, inferior. *L.*

1. SAMOLUS *bracteatus.* Racemus multiflorous. Pedicles bracteate. *From*

S. Valerandi. *Smith brit.* 259; *engl. t.* 703. *L. sp.* 243. *Bot. arrang.* 221. *Thunb. cap.* 38. *Michaux* i. 109. *Fl. dan. t.* 198. *Curt. lond.* iv. 20, *t.* 268. *Dill. ap. Raii syn.* 283. *Bauh. J.* iii. 791, *cop. from*

Anagallis aquatica altera. *Lob. obs.* 249, *which cop. in Dalech.* 1090, *repr. in*

Anagallis aquatica tertia. *Lob. ic.* i. 467, *cop. in*

Veronica aquatica, folio subrotundo non crenato. *Hist. ox.* ii. 323. *s.* 3. *t.* 24. *row* 2. *f.* 26, *&*

Anagallis aquatica tertia Lobelii, folio subrotundo non crenato. *Park. theatr* 1237, *& repr. in*

Anagallis aquatica rotundifolia. *Ger. by Johns.* 620, (misprinted 626.) *Raii hist.* 1101; *syn. ed.* ii. 227.

S. africanus, folio rotundiore. *Walth. hort.* 162. *t.* 23.

Alsine aquatica, foliis rotundis beccabungae. *Hist. ox.* ii. 324. *s.* 3. *t.* 24, *row* 3, *f.* 28,

Leaves obovate. *Obs.* 8674. In the park at Calne, Wiltshire.—*Leaves* obovato-oblong, acute at the end. *Obs.* 8675. Specimen from M. Broussonet.

Native of the four quarters of the world.

SAMOLUS. Geoffr. suite ii. 360.

S. Valerandi. *Schoepf* 22,

142. NAUCLEA.

Corolla infundibuliform. *Capsule* inferior, bilocular, polyspermous. *From L. and Roxburgh's figures.*

Differs from *Cephalanthus* in the cells of the capsule containing several seeds.

1. NAUCLEA *purpurea.* Calyx quinquefid. Leaves lanceolate. Stamina not projecting. *From Roxb.* i. 41. *t.* 54, *and L. a Willd.* i. 928.

Cadamba. *Jones in asiat. research.* iv. 262. *n.* 21.

Arbor indica, fructu aggregato globoso, Katu Tsjaka dicta. *Raii hist.* 1441, from
Katou Tsjaca. *Rheede* iii. 29. *t.* 33.
BANCALUS. *Rumph.* iii. 84. *t.* 55.

2. NAUCLEA *hamosa.*—With interfoliaceous spines. *From*
Nauclea. *Juss. gen.* 209.
FUNIS UNCATUS latifolius. *Rumph.* iii. 63. *t.* 34. *f.* 1.

143. PORTLANDIA.

Corolla campanulato-tubiform. *Calyx* pentaphyllous. *Capsule* pentagonal, crowned by the calyx, with 2 cells and 2 valves; dissepiment inserted into the sides of the valves. *Obs.* 2312. *L.*

Differs from *Catesbea* in the fruit being a capsule, and the calyx being pentaphyllous instead of quinquedentate.

1. PORTLANDIA *grandiflora.* Leaves acute. Phylla elliptico-lanceolate. *Obs.* 2312. Specimen gathered by Broughton in Jamaica.—*L. sp.* 244. *Hort. kew.* i. 228. *Jacq. amer.* 62. *t.* 44.
PORTLANDIA grandiflora. *Wright in med. journ.* viii. 277.
α *ovata.* (Variation.) Leaves elliptico-ovate. Corolla 6 and 7 inches long. *From*
Portlandia. *Browne* 164. *t.* 11, where the phylla are represented as elliptico-lanceolate.
P. grandiflora. *Swartz. obs.* 69.
β *minor.* (Variation.) Leaves elliptico-ovate, and ovato-elliptic. Corolla 4 inches long. *Obs.* 2312.

—*Obs.* 5478. Specimen gathered by Dr. Wright in Jamaica.

Peduncles in the uppermost set solitary, in the set below them ternate. *Calyx*, phylla lanceolate. *Obs.* 2312.

γ *lanceolata.* (Variation.) Leaves lanceolato-elliptic. *From*

P. grandiflora. *Smith pict.* i. 6. *t.* 6, who observes that in some of the flowers the parts were 6.—*Curt. mag. t.* 286.

144. SCAEVOLA.

Corolla monopetalous; tube longitudinally cloven; limb lateral, quinquefid. *Drupe* inferior, monospermous. *Nut* bilocular. *L.*

1. SCAEVOLA *Lobelia.* Leaves glabrous, entire at the margin. *From L. a Willd.* i. 956. *Murr. ap. L. a Murr.* 213. *Jacq. amer.* 8*vo.* 81. *Swartz. obs.* 70.

Lobelia Plumierii. *L. sp.* 1317. *Osb. trav.* ii. 57. *Jacq. amer.* 219. *t.* 179. *f.* 88.

L. frutescens, portulacae folio. *Plum. a Burm. t.* 165. *f.* 1. *Catesb.* i. *t.* 79.

BUGLOSSUM litoreum. *Rumph.* iv. 116. *t.* 54.

145. CINCHONA.

Corolla infundibuliform and hypocrateriform. *Calyx* quinquedentate. *Capsule* inferior, with 2 cells 2 valves and many seeds; dissepiment inserted into

the margins of the valves, dehiscent. *Obs.* 2556, & 6211. *H. K.* i. 228. *Swartz. obs.* 71. *L. gen. n.* 228, from authors.—*Gaertn.* i. *t.* 33. *Juss.* 201.

1. *Segments of the corolla lanceolate, tomentose. Stamina scarcely projecting.*

1. CINCHONA *officinalis.* Leaves elliptic, acute. Capsules ovato-oblong. *Specimen* in Sir Jos. Banks's herbarium from the herbarium of Miller. —*Specimen* in Mr. Knowlton's herbarium, intitled "Quina Quina vera from Quito, given by Mortimer in the year 1745" to Knowlton.—*Vahl in kiobenhavn. naturhist. selsk.* i. 17. *t.* 1, from a specimen gathered at Loxa in Peru and given to him by M. Jussieu.—*Lamb. cinch.* 16. *t.* 1, said to be cop. from a plate annexed to De Castro Sarmento de uso e abuso das minhas agoas de Inglaterra published at London in 1756, engraved at the expence of the royal society from a drawing made by Mr. Hawkins from specimens sent by Condamine then in Peru to Mortimer, an impression of which is in Mr. Knowlton's library, and on which is engraved "J. Hawkeens delin. ad vivam 1739;" right hand figure *cop. in Pulteney diss. inaug. ap. thes. med. a Smellie* iii. 12. *t.* 1. *f.* 1, *which cop. in encyclop, brit.* ix. 125. *t.* 252. *L. nat. ed.* x. 929; *sp.* 244; *gen. ed.* vi. 91. *Gaert.* i. 169. *t.* 33. *f.* 4. *Linn. pflanzen syst.* i. 258. *t.* 6. *f.* 1. *Woodv.* 546. *t.* 200, *cop. from* Quinquina. *Condam. dans l'hist. et mem. de l'acad. sc. année* 1738, *mem.* 226. *t.* 5 & 6. *p.* 244, capsules mostly ovate, which *cop. in*

Cortex-tree. *Condamine in acad. sc. abr. by Southw.* iii. 272. *t.* 9. *at p.* 392, and the account of its culture translated in *med. mus.* ii. 428.

C. condaminea. *Humboldt and Bonpland, account from in edinb. journ.* ii. 485.

Arbor febrifuga peruviana. *Raii hist.* 1796.

Peruvian or Jesuits Bark. *Arrot in phil. trans. abr. by Hutton* viii. 142; *and account from in Mihles's ess.* ii. 332, & *med. ess.* vi. 375.

Leaves glabrous, thin; tufts of short hair at the superior axillae of the lateral ribs at their insertion into the costa, but no obvious scrobiculi. *Capsule* rather acuminate at the end, smooth, blackish rufous. *Obs.* 8677. Portions of a specimen sent by Gronovius to Vienna, and given me by Prof. Jos. F. Jacquin.

CINCHONA. The bark, commonly called Peruvian Bark. *Pharm. lond.—Bree* 367. *Davies, H. in phys. journ.* v. 534; xvi. 496. *Fordyce, G. fev.* ii. 119; iii. 17; iv. 145, 182, 185, 186; v. 59, 88, 93, 101; vi. 36, 57, 60. *Harrold in phys. journ.* xiv. 325. *Heberd.* 90. *Mossman in phys. journ.* x. 12, 18, 19. *Murr. J.* i. 288. *Parker, account from in chir. rev.* iv. 59. *Pearson, J. account from in ann. med. lustr. II.* i. 270. *Ploucq. bibl.* i. 70, 203, 280, 327, 346, 412, 461, 463, 467, 474, 481, 493, 505, 506, 514, 519, 521, 522, 524, 548, 572, 640, 655, 698. *Stichel, account from in med. rev.* i. 573. *Valentine, account from in chir. rev.* xi. 240.

C. officinalis. The bark. *Pharm. edin.—Lew. disp. by Dunc.* 189. *Murr. J.* i. 175; ii. 30, 43. *Pearson, R.* ii. 213.

Kinkina. *Pharm. suec.—Sauv.* ii. 340.

Quinquina. *Chom.* 469. *Cohausen archeus, account of in med. ess.* iv. 391. *Vaume, account from in chir. rev.* iii. 393, 397, 400. *Alibert, account from ib.* vi. 485.

Kina Kina. *Geoffr.* ii. 179. *Hill* 671.

Quinaquina. *Alst.* ii. 10.

Chinchina. *Murr.* i. 546. *Quarin febr.* 79.

Cortex peruvianus. *Aasheim in act. haun.* i. 175, 178, 180, 181. *Aaskow ib.* 162, 200. *Badenoch in med. obs.* iv. 156. *Bang in act. haun.* i. 5, 8, 19, 100, 104, 106, 108, 109, 112, 113, 241, 247, 255, 257, 277, 297, 298. *Bisset ess.* 170. *Bromfield* i. 83. *Bruce in Lind hot clim.* 25. *Buchhave in act. haun.* i. 228, 231, 234. *Callisen ib.* 72, 74, 362—367, 416, 421. *Cartheus.* iv. 261. *Cull.* ii. 89, 431; *pract. n.* 1334; *clin.* 76. *Dale* 291. *Fordyce, G. pract.* 153, 154, 156, 161, 169, 207, 209, 210; *W. fragm.* 19, 25, 33, 38, 44, 57, 60, 94. *Fothergill, J. in med. obs.* i. 303. *Galeatius, account from in med. comment.* i. 172. *Goolden in med. ess.* iii. 33. *Gulbrand in act. haun.* i. 145. 305. *Hamilton Rob. account from in med. rev.* vii. 476. *Heberd.* 5, 9, 14, 26, 28, 59, 92, 95, 110, 122, 126, 148, 155, 159, 161, 169, 175, 176, 259, 280, 281, 302, 321, 337, 340, 346, 366, 386, 415. *Hillary* 22, 164, 315. *Home, F. clin.* 15, 112, 194, 324. *Hull phlegmat.* 277; *caesar.* 351. *Lew.* ii. 194. *May* 45. *Mead mon.* i. 30, 41, 55, 76, 120; ii. 23, 144. *Med. mus.* i. 121. *Mertens* 15. *Meza in act. med. haun.* i. 40. *Monro* iii. 200. *Morton pyretol.* i. 424. *Neum.* ii. 89. *Nev, account from in med. comment.* v. 156. *Pearson, G. in Rollo diab.* 306. *Rand. in med. pap.* 68. *Ranöe in act. haun.* i. 38, 456. *Reid T. phthis.* 163. *Rogert in act. haun.* i. 188. *Quarin febr.*

Pale Bark. *Maclean* 124.

Brown Cinchona. *Fordyce, G. fev.* 120.

Orange coloured Peruvian Bark. *Mutis, account from in chir. rev.* vii. 99.

South American extract of Bark. *Clark, J. long voy.* 309. *Saunders in med. journ.* xi. 67.

CINCHONA flava. *Vaughan, Walt. account from in chir. rev.* ii. 537. *Westling, account from in med. rev.* vi. 172.

Yellow Peruvian Bark. *Marabelli, account from in ann. med.* iii. 197. *Mutis, account from in chir. rev.* vii. 99. *Oryan, letter on,* 19. *Relph, account from in med. comment. dec. II.* ix. 404.

Yellow Bark. *Fowle, account from in med. rev.* iv. 346. *Relph, account from in chir. rev.* i. 150. *Thomas, account from in med. rev.* viii. 100.

Yellow Cinchona. *Fordyce, G. fev.* ii. 120.

CINCHONA rubra.

Kina Kina foemina. *Geoffr.* ii. 202.

Red Peruvian Bark. *Blane* 457. *Clark, James, account from in ann. med.* ii. 168, 175. *Halliday in med. journ.* iv. 416. *Hunter jam.* 152. *Med. journ.* v. 422. *Mutis, account from in chir. rev.* vii. 99. *Saunders, account from in med. comment.* viii. 167. *Simmons in med. journ.* iv. 304.

Red Bark. *Clarke, James, account from in chir. rev.* iv. 282; *J. long voy.* 308. *Hunter jam.* 212. *Lindsay, account from in chir. rev.* ii. 379. *Maclean* 125. *May* 14. *Ware epiphor.* 33.

Red Cinchona. *Fordyce, G. fev.* ii. 120.

β *pubescens.* *Specimen* in Sir Jos. Banks's herbarium with the title of C. officinalis altera e regn. St. Fid. cum flore.

C. officinalis. *Lamb. cinch.* 16. *t.* 1, the upper panicle in fruit? or the lower?

Leaves, 2, one elliptic the other ovate. *Petioles* pubescent. *Cyme* pubescent. *Capsule* lanceolato-oblong, one third longer than that of *α*. This and *C. pubescens* I consider as varieties of *C. officinalis* differing only in the size of the fruit, and the greater or less pubescence of the leaves. *Specimen above mentioned.*

2. CINCHONA *pubescens*. Leaves elliptic, pubescent underneath. Capsules oblong. *From Vahl. in kiobenhavn. naturhist. selsk.* i. 17. *t.* 2, *cop. in Lamb. cinch.* 21. *t.* 2, from a specimen gathered in Peru, and given to Vahl by M. Jussieu.

WHITE PERUVIAN BARK. Jussieu, Jos. account from in med. journ. iv. 306. *Mutis, account from in chir. rev.* vii. 99.

3. CINCHONA *macrocarpa*. Leaves elliptico-oblong, pubescent underneath. Calyx obsoletely dentate. *From Vahl in kiobenhavn. naturhist. selsk.* i. 17. *t.* 3, *cop. in Lamb. cinch.* 22. *t.* 3.

C. officinalis. *L. nat.* ii. 164; *a Murr.* 213, from specimens sent by Don Mutis, as evident from the description of the leaves and teeth of the calyx, and Vahl assures us that the specimen in the Linnaean herbarium is his C. macrocarpa.—*L. fil. suppl.* 144.

C. cortex peruvianus ruber. *Woodv.* 555. *t.* 201, from a drawing in the Linnaean herbarium said to have been sent to Linnaeus from America, but the calyx is represented as quinquefid.

Native of Santa Fe. Specimen in Sir Jos. Banks's herbarium from Don Ortega.

CINCHONA macrocarpa. *Vahl translated in Lamb. cinch.* 13.

2. *Segments of the corolla linear, glabrous. Stamina projecting beyond the tube of the corolla.*

4. CINCHONA *myrtifolia.* Peduncles axillary, uniflorous, solitary. Tube of the corolla somewhat longer than the limb. *Obs.* 6211. Specimen gathered by Broughton in Jamaica.

C. caribaea. *L. sp.* 245; *mant.* 338, (where misprinted herbacea.)—*Hort. kew.* i. 228. *Jacq. amer.* 61. *t.* 179. *f.* 95, the fruit; 8*vo ed.* 78; *obs.* ii. 27. *f.* 47, *cop. in pict.* 35. *t.* 63, with the fruit.—*Vahl in kiobenhavn. naturhist. selsk.* i. 20. *Gaertn.* i. 169. *t.* 33. *f.* 4. *Lamb. cinch.* 24. *t.* 4, from a specimen in the herbarium of M. de Ponthieu. Fruit represented as costate.

C. jamaicensis seu caribbeana. *Wright in phil. trans.* lxvii. 504. *t.* 10, segments of the corolla represented convex instead of concave.—*Encyclop. brit.* ix. 124. *t.* 252.

(Periclymeno recto accedens arbuscula virginiana siliquosa. *Pluk. alm.* 288. *t.* 103. *f.* 3, has fruit with a permanent style.)

Leaves lanceolate, glabrous; tufts of hair underneath in the axillae of the lateral veins at their insertion into the costa. *Capsule* oblong separating into 2 parts, truncate at the end, terete, smooth. *Obs.* 2556. Specimen gathered by Broughton in Jamaica.

CINCHONA caribea. *Pharm. edin.*—*Clark, James, account from in ann. med.* ii. 176. *Lew.* ii. 209; *disp. by Dunc.* 195. *Murr.* i. 551; *J.* i. 182. *Wright in med. journ.* viii. 239.

Cortex caribaeus. *Schumacher, account from in phys. journ.* vi. 376; vii. 81.

Caribean Bark. *Rush* iv. 99.

5. CINCHONA *triflora*. Flowers axillary, 3 together. *From Wright in med. journ.* viii. 240. Found by Mr. Roberts in Jamaica.—*Encyclop. brit.* ix. 124.

6. CINCHONA *floribunda*. Panicle terminal. Segments of the calyx very short. Capsules oblongo-cylindric. Leaves elliptic. *Specimens* gathered in Dominica by M. de Ponthieu, and with smaller leaves gathered in Jamaica by Drs. Dancer and Swartz in Sir Jos. Banks's herbarium.—*Swartz prodr.* 41; *ind. occident.* i. 375. *Lamb. cinch.* 27. *t.* 7, from a specimen in Sir Jos. Banks's herbarium, gathered by Mr. Mason in Saint Lucie.—*Vahl in kiobenh. naturhist. selsk.* i. 23. In Hispaniola and Martinico.

C. montana. *Badier in journ. de phys.* xxxiv. 129. *t.* 1. In Guadaloupe and Martinico.

C. floribus paniculatis glabris, laciniis linearibus tubo longioribus, staminibus exsertis, foliis ellipticis glabris. *Banks in phil. trans.* lxxiv. 453. Found by Mr. Davidson in Saint Lucia.

Capsule slightly costate, glabrous; ribs 10 to 12. *Specimens* above mentioned.

CINCHONA floribunda. *Encyclop. brit.* ix. 124. *Westring, account from in med. rev.* vi. 172.

C. montana. *Mallet & Badier, account from in encyclop. brit.* ix. 124,

C. Sanctae Luciae. *Kentish, account from in med. comment.* xii. 281.

Cortex Sanctae Luciae. *Harrison in new med. journ.* i. 19.

Cinchonae species quae insulae Sanctae Luciae innascitur. *Monro* iv. 282.

Bark Tree of the island of St. Lucia. *Davidson in phil. trans.* lxxiv. 452; *& account from in med. journ.* vi. 175; v. 202.

7. CINCHONA *brachycarpa.* Panicle terminal. Calyx twice as short as the germen. Leaves elliptic. Capsules oval, costate. *Obs.* 8678. Specimen from Dr. Wright, without corollae or fruit.—The account of the fruit from *specimens* in Sir Jos. Banks's herbarium gathered by Dr. Lindsay in Westmorland in Jamaica.—*Swartz. prodr.* 42; *ind. occid.* 378. *Vahl in kiobenhavn. naturhist. selsk.* i. 24. *Lamb. cinch.* 28. *t.* 8. from a specimen in Sir Jos. Banks's herbarium.—*Lindsay in edin. trans.* iii. *t.*

Branches glabrous. *Leaves* glabrous; axillae of the lateral ribs underneath with tufts of hair. *Panicle* glabrous. *Calyx*, segments subulate, erect. *Obs.* 8678.

CINCHONA brachycarpa. *Clark, James, account from in ann. med.* ii. 176. *Lindsay, account from in chir. rev.* ii. 378; *med. facts* v. 151; *& encycl. brit.* ix. 125. *Wright in med. journ.* viii. 240.

3. *Species not hitherto characterised.*

8. CINCHONA *Cambar.* *Köenig ap. Retz. obs.* iv. 6.

146. COFFEA.

Corolla hypocrateriform. *Stamina* inserted into the base of the limb of the corolla. *Berry* inferior. *Seeds* 2, arillate. *Obs.* 7979. In flower.—*L.*—*Juss.* 204. *Venten. tabl. t.* 13. *f.* 1.

1. COFFEA *arabica.* Corolla quinquefid. Leaves elliptic, acuminate. Peduncles axillary, aggregate. *Obs.* 8221. Specimen gathered by Dr. Wright in Jamaica where it is cultivated.—*L. a Willd.* i. 973; *sp.* 245. *Woodv.* iv. 48. *t. Lour.* i. 179.

C. fruticosa, foliis oppositis, floribus plurimis sessilibus ad alas. *Browne* 161.

Jasminum arabicum lauri folio, cujus semen apud nos Caffe dicitur. *Juss. dans les mem. acad sc. Paris pour* 1713. *p.* 388. *t.* 7, *cop. in*

Coffea. *L. amoen.* vi. 167. *t.* 2. *at p.* 178.

Jasminum arabicum castaneae folio. *Boerh.* ii. 217.

Coffee-tree. *Bradl. kalend.* 78. *t.* 1. *f.* 2. *at p.* 17.

Coffee Shrub. *Sloan in phil. trans. abr. by Lowthorp* ii. 659. *t.* 8. *at p.* 662. *f.* 165; *& by Hutton* iii. 622.

Bon. *Alp. aegypt. fol.* 26. *p.* 1. *t. p.* 2. *cop. in*

Arbor Bon, cum fructu suo Buna. *Park. theatr.* 1623, with the addition of the fruit.

Bon, vel Ban arbor. *Bauh. J.* i. *a.* 422. *Raii hist.* 1691.

COFFEA. Lew. i. 354; *disp. by Rother.* 146. *Murr.* i. 386.

Coffaea. *Heberd.* 61, 371.

Caffea. *Spielm.* 115.

Coffee. *Bree* 283, 292. *Cull. pract. n.* 1198, 1241. *Dale* 317. *Darw.* ii. 297. *Fothergill J. in med. obs.* vi. 122, 123, 131. *Herm.* 324. *Houghton in phil. trans. abr. by Lowth.* ii. 660; *& by Hutton* iv. 420. *Hunter jam.* 112. *Juch, account from in phys. journ.* v. 372. *Mill. Jos.* 144. *Neum.* ii. 151. *Percival* i. 353. *Ploucq. bibl.* i. 218, 220, 603. *Quarin animad.* 36, 37. *Rutty* 129. *Vog.* 250.

Coffe. *Alst.* ii. 274. *Linn.* 69.

Caffe. *Bang in act. haun.* i. 101. *Berg.* 111. *Chom.* 446. *Geoffr.* ii. 431.

C. arabica. *Bryant* 311. *Pearson, R.* i. 101. *Schoepf* 22. *Wright in med. journ.* viii. 246.

2. COFFEA *racemosa.* Leaves scabrous. Racemi terminal. *Lour.* i. 179.

3. COFFEA *Zanguebariae.* Corolla sexfid. Berries angulato-costate. *Lour.* i. 180.

147. CHIOCOCCA.

Corolla obconico-campanulate. *Calyx* superior, quinquepartite. *Berry* with 2 cells, crowned by the calyx. *Seeds* solitary. *Obs.* 5479. *Swartz obs.* 76. *L.*

1. CHIOCOCCA *racemosa.* Stipulae entire. Corolla quinquefid. Panicles axillary. *Obs.* 5479. Specimen gathered by Broughton in Jamaica.—*L. fil. suppl.* 145. *L. sp.* 246; *a Willd.* i. 975. *Swartz. obs.* 76. *Hort. kew.* i. 229.

Periclymenum racemosum, flore flavescente, fructu niveo. *Plum. a Burm.* 211. *t.* 217. *f.* 2. *Dill. hort.* 306. *t.* 228. *f.* 295.

Jasminum forte, folio myrtino acuminato, aliorum adminiculo se sustentans, flore albicante racemoso. *Sloane cat.* 169; *hist.* ii. 97. *t.* 188. *f.* 3.

Leaves elliptico-lanceolate. *Stipulae* interfoliaceous, cuspidate, the uppermost ovate, the lowermost transversely semilanceolate. *Panicles* racemiform, the lower foliaceous, with 1 and 2 leaves, longer than the leaves, branched below, racemose above; branches with 2 and 3 flowers. *Bracteae* subulate. *Pedicles* 3 and 4 times longer than the bracteae. *Germen* oval. *Calyx* partito-quinquefid, as long as the germen; segments triangulari-ovate. *Corolla* cyathiform, 5 times as long as the calyx, from 2 to 3 tenths of an inch long; segments ovate. *Stamina* reaching nearly to the commissures of the corolla. *Filaments* subulate, united at the base and slightly adhering to the base of the corolla, pubescent above. *Antherae* linear, erect, inserted by the base, whitish, twice as long as the filaments. *Style* somewhat longer than the corolla, filiform below, thickening above, microscopically scabrous and triemarginate at the end. *Obs.* 5479.

CHIOCOCCA sarmentosa, foliis myrtineis oppositis, spicis pluribus tenuissimis et terminalibus et ex alis supremis. *Browne* 164.

148. VANGUERIA.

Calyx quinquedentate. *Corolla*, tube globular;

throat hairy. *Stigma* bilamellate. *Berry* inferior, with 4 and 5 seeds. *L. a Willd.*

1. VANGUERIA edulis. *Vahl. symb.* iii. 36.

149. PSYCHOTRIA.

Calyx superior, and semisuperior, quinquefid. *Corolla* hypocrateriform, quinquefid. *Stigmata* 2. *Berry* dispermous, bilocular and unilocular. *Obs.* 8485, *and from Jacq. Swartz & Brotero.—L.*

Cephaëlis. *Swartz. ind. occid.* 435.

Callicocca. *L. a Schreb.* 126, 822.

1. *Flowers capitate.*

1. PSYCHOTRIA *Ipecacuanha.* Capitula pedunculate, terminal. Bracteae as long as the flowers. *From*

Callicocca Ipecacuanha. *Brotero in linn. trans.* vi. 137. *t.* 11. *at p.* 140.

Ipecacuanha. *Woodv.* iii. 562. *t.* 203, root, stem, and leaves, from a specimen which I saw in spirits in Sir Jos. Banks's museum, sent from Brasil by Gov. Phillips.

Ipecacuanha altera. *Pis. bras.* 102. *t.* 101, *repr. in ind.* 231, *&*

Ipecacoanha. *Marcgr. bras.* 17. *t.* the longer stem with berries, the smaller with flowers.

Igpecava, or Pigaya. *Purchas pilgrimes* iv. 1311.

IPECACUANHA. Root. *Pharm. lond. edin.* —*Adair, James in med. comment.* ix. 215; x. 234. *Alst.* i. 468. *Bang in act. haun.* i. 103.

ii. 31, 44, 96, 116, 200, 210, 261, 335, 346, 347, 381, 425; iii. 49, 79, 82, 167, 192. *Underw.* i. 25, 27, 110, 132, 218, 316, 343. *Vog.* 200. *Whytt in Pringle* 275. *Withering scarl. fev.* 76, 79. *Wright in ann. med.* ii. 370.

Ipecacoanha. *Aasheim in act. haun.* i. 176, 180. *Akenside in med. trans.* i. 93. *Bang in act. haun.* ii. 59. *Buchhave ib.* 320. *Callisen ib.* i. 74. *Fordyce, W. fragm.* 24. *Heberd.* 152. *Hillary* 95, 209, 213. *Lind hot clim.* 261; *seam.* 202, 249. *Mead mon.* i. 76, 95, 129, 146. *Monro, Don. sold.* i. 211, 308, 340, 359. *Ploucq. bibl.* i. 319, 327, 510, 596. *Ranöe in act. haun.* i. 33. *Sims, James* 108, 111, 149, 197. *Wintringh. in Mead mon.* i. 253, 262.

Ipecacuana. *Balmain in med. soc.* v. 210. *Blane* 424, 475, 507. *Chalm.* i. 185. *Chom.* 65. *Mill. Jos.* 243.

Ipecacuan. *Fordyce W. fev.* 155. *Richter quoted in Rollo diab.* 370. *Rollo diab.* 42.

Ipecacoan. *Daubenton, account from in phys. journ.* xvi. 569.

Ipecacohan. *Bree* 242, 252, 268, 284, 287, 365; *& account from in chir. rev.* v. 30.

Ipecacuanha fusca. *Geoffr.* ii. 90.

Ipecacuanha vulgaris. *Linn.* 68.

Ipecacoanha fusca. *Cartheus.* ii. 396.

Brown Ipecacuanha. *Douglass in phil. trans. abr. by Reid & Gray* vi. *part* ii. 219; *by Hutt.* vii. 357; *and in Mihles's ess.* ii. 207.

Ipecacuanha brun. *Pomet* i. 46.

P. emetica. *Pearson, R.* i. 175, 257.

Cephaëlis Ipecacuanha. *Lew. disp. by Dunc.* 184.

Callicocca Ipecacuanha. *Pearson, R.* ii. 212.

PULVIS IPECACUANHAE ET OPII. *Pharm. edin.—Fordyce, W. fragm.* 45. *Murr. J.* ii. 231. *Pringle* 207, 263, 281, 283.

Pulvis Ipecacuanhae compositus. *Pharm. lond.—Denm.* ii. 521.

Pulvis Doveri. *Heberd.* 347. *Quarin animad.* 229, 276.

Dovars powder. *Bromfield* i. 12.

Dovers powder. *Brown* ii. 162, 168. *Cull. clin.* 87, 158, 231, 237. *Denm.* ii. 700. *Falconer in Rollo diab.* 143. *Fowler, T. rheum.* 233. *Jackson, Rob. fev.* 321, 326.

Dovers sudorifick powder. *Chalm.* ii. 66, 178.

BLACK IPECACUANHA. *Douglass in phil. trans. abr. by Reid & Gray* vi. *part* ii. 219; *by Hutt.* vii. 357; *and in Mihles's ess.* ii. 207?

. . . . . .

2. PSYCHOTRIA *emetica.* Capitula pedunculate, axillary. Bracteae minute. *From L. fil. suppl.* 144, from the communications of Don Mutis, who received a specimen from the governor of the province of Giron, gathered at Cannaverale near the banks of the Magdalena in Terra Firma, and which was believed by an empirical practitioner to be the true Ipecacuanha, which he had seen collected for exportation at Simiti in the government of Carthagena.

IPECACUANHA cinerea. *Dale* 420. *Geoffr.* ii. 90?

Ipecacuanha grisea. *Cartheus.* ii. 396. *Spielm.* 616?

Grey Ipecacoanha. *Neum.* ii. 118?

Grey Ipecacuanha. *Douglass in phil. trans. abr. by Reid and Gray* vi. *part* ii. 219; *by Hutton* vii. 357; *and in Mihles ess.* ii. 207?

Ipecacuanha gris. *Pomet* i. 46?

2. *Flowers pedunculate.*

3. PSYCHOTRIA *herbacea.* Stem herbaceous, creeping. Leaves cordate, petiolate. *L. sp.* 245. *Jacq. amer.* 66. *t.* 46; 8*vo* 85. *Swartz. obs.* 74. *Forst. G. austral. n.* 91.

Psychotrophum herbaceum repens silvaticum, foliis subrotundo-cordatis oppositis, floribus pauciori-bus alaribus, liciniis corollae erecto-patentibus. *Browne* 161.
KARINTA-KALI. Rheede x. 41. *t.* 21.

150. ANTHERURA.

Corolla rotate. *Antherae* caudate. *Berry* dispermous. *Lour.*

1. ANTHERURA *rubra. Lour.* i. 178.
CARYOPHYLLASTER ruber. *Rumph. l.* 5. c. 55. *t.* 136.

151. MORINDA.

Corolla infundibuliform. *Stigma* bifid. *Berry* monospermous. *From L. & Juss.*

1. MORINDA *citrifolia.* Stem arboreous. Peduncles solitary. *L. sp.* 250. *Forst. G. austral. n.* 100; *escul.* 41.
Bancudus latifolia. *Rumph.* iii. 157. *t.* 99.

Arbor indica, fructu aggregato conoide, Cada-Pilava dicta. *Raii hist.* 1442, from
Cada-pilava. *Rheede* i 97. *t.* 52, &
ARBOR conifera, Macandau. *Bont.* 97.

152. LONICERA.

Calyx quinquepartite. *Corolla* monopetalous, tubular, irregular, with 5 divisions. *Berry* with 2 and 3 cells, and several seeds.—*L.*

1. *Stem twining.*

1. LONICERA *Periclymenum.* Corolla bilabiate. Heads terminal. Leaves deciduous, distinct. *Obs.* 29. In a garden. *Hort. kew.* i. 231. *Smith brit.* 260. *L. sp.* 247; *suec. n.* 193. *Bot. arrang.* 222. *Gouan hort.* 101. About Montpelier—*Lour.* i. 185. *Krock. n.* 329. *Fl. dan. t.* 908. *Curt. lond.* i. 15. *t*; *mat. med. t.* 18. *Jacq. vind.* 38, rather rare.
Caprifolium germanicum. *Tourn. paris.* 322. *Vaill. paris.* 27. *Dill. ap. Raii syn.* 458. *Dod.* 406, *repr. in*
Periclymenum. *Ger. by Johns.* 891, & *cop. in*
Periclymenum, sive Caprifolium vulgare. *Park. theatr.* 1460. *Raii hist.* 1490; *syn. ed.* ii. 300.
Periclymenum. *Fuchs.* 615. *c.* 250, *cop. in*
Periclymenum non perfoliatum. *Bauh. J.* ii. 104.
CAPRIFOLIUM. Berg. 104. *Dale* 294. *Geoffr.* iii. 253. *Linn.* 69. *Mill. Jos.* 109. *Murr.* i. 384. *Rutty* 93. *Vog.* 126. *n.* 2.
Caprifolium germanicum. *Chom.* 663.
Caprifolium non perfoliatum. *Schrod.* 554.

LYCIUM. Schrod. 725.

2. LONICERA *Caprifolium.* Corolla bilabiate, terminal, verticillate. Leaves deciduous, the uppermost connato-perfoliate. *Hort. kew.* i. 230. *L. sp.* 246. *Pollich n.* 217. *Scop. carn. n.* 242. *Gouan hort.* 101. About Montpelier;—*monsp.* 76. *Roth germ.* i. 102. Near Erford Giesen and Jena.—*Smith brit.* 260. Found by Mr. Butt in a wood near Elsfield near Oxford, and by Mr. Relhan in Chalk-pit close Hinton, and in a coppice in the same parish.—*Jacq. austr.* iv. *t.* 357; *vind.* 38. *Host.* 113. *Asso n.* 183. *Krock. n.* 328. Naturalised in orchards in Silesia.

L. floribus verticillatis terminalibus sessilibus, foliis summis connato-perfoliatis. *L. ups.* 42. *Kram.* 50. Naturalised.

Periclymenum italicum. *Mill. Ph. dict. n.* 5.

Caprifolium. *Mill. Ph. ic.* 53. *t.* 79.

Caprifolium italicum. *Lond. gard.* 14. *t.* 5. *Boerh.* ii. 226. *Dod.* 406, *repr. in*

Periclymenon perfoliatum calidarum regionum. *Lob. obs.* 357, *&*

Periclymenum perfoliatum calidarum regionum officinarum. *Lob. ic.* i. 632, *cop. in*

Periclymenum perfoliatum sive italicum. *Park. theatr.* 1460, *& repr. in*

Periclymenum perfoliatum. *Ger. by Johns.* 891. *Dalech.* 1427. *Magn. monsp.* 201. *Bauh. J.* ii. 104. About Montpelier.—*Raii hist.* 1490; *europ.* 200. In Italy and the south of France.

Periclymenum. *Cam. epit.* 713.

Native of Italy, Carniola, the south of France, the Palatinate and Franconia, and naturalised in

Austria and Silesia. The plants found in Oxfordshire and Cambridgeshire I suspect to have risen from seeds carried by birds.

CAPRIFOLIUM perfoliatum. *Schrod.* 554.

2. *Peduncles with 2 flowers. Berries distinct.*

From L.

3. LONICERA *pubescens.*—Leaves entire at the margin, pubescent. *L.*

L. Xylosteum. *L. suec. n.* 194; *sp.* 248. *Hort. kew.* i. 232. *Pollich n.* 219. *Roth germ.* i. 102. *Gouan hort.* 101? About Montpelier, but he describes the leaves as serrulate;—*monsp.* 77. *Scop. carn. n.* 244. *Bot. arrang.* 222, note, where it is mentioned as having been said by Wallis in his natural history of Northumberland to have been found under the Roman wall on the western side of Shewing Sheels.—*Lour.* i. 186. *Smith brit.* 1393; *engl. t.* 916. Found by Mr. Borrer in a coppice near Arundel in Sussex. Corolla tinged with red, and of a yellower hue than I have ever observed it, and the whole having more of the habit of L. Periclymenum than of L. pubescens. —*Fl. dan. t.* 808.

L. pedunculis bifloris, baccis distinctis, foliis integerrimis. *Dalib.* 69. *Guett.* ii. 134.

Xylosteum. *Dod.* 407, *repr. in ed.* ii. 412, *&*

Periclymenum rectum germanicum. *Ger. by Johns.* 1294.

Periclymenon allobrogum. *Lob. obs.* 358, *repr. in ic.* i. 633, *& cop. in*

Periclymenum rectum fructu rubro. *Park. theatr.* 1462, *and Bauh. J.* ii. 106. *Clus. pann.* 87.

No fig.—*Raii hist.* 1491; *europ.* 200. Throughout Germany.

Native of Sweden, Germany, Hungary, Switzerland; but whether of France or England rather doubtful.

PERICLYMENUM rectum. *Vog.* 126.

4. LONICERA *Symphoricarpos.* Heads lateral, pedunculate. Leaves petiolate. *L. sp.* 249. *Hort. kew.* i. 233.

L. capitulis lateralibus pedunculatis foliis petiolatis. *Gron. virg.* 30.

Symphoricarpos foliis alatis. *Dill. hort.* 371. *t.* 278. *f.* 360.

Vitis idaea caroliniana, foliis subrotundis hirsutis. *Lond. gard.* 85. *t.* 20.

SYMPHORICARPOS. Linn. 70. *Schoepf* 22.

5. LONICERA *Diervilla.* Peduncles terminal and axillary. Leaves serrate. *Obs.* 2518. In a garden.—*Obs.* 8214. Specimen gathered by Dr. Cutler in New England.—*L. sp.* 249. *Hort. kew.* i. 233.. *Willich obs. n.* 76.

Lonicera. *Cutl. in amer. acad.* i. 418.

Diervilla. *L. cliff.* 63. *t.* 7.

DIERVILLA. Lew. by Dunc. 343. *Linn.* 70. *Murr.* i. 385. *Schoepf* 23.

3. *Peduncles with 2 flowers. Berries united.* From L.

6. LONICERA *alpigena.* Berries didymous. Leaves ovali-lanceolate. *L. a Murr.* 216; *sp.* 248. *Hort. kew.* i. 233. *Sibth. prodr. n.* 519. On

Mount Athos.—*Gouan hort.* 101. Near Montpelier.—*Host* 114. *Scop. carn. n.* 245. *Honck.* ii. 285. *Jacq. austr.* iii. *t.* 274.

L. baccis bifloris concretis, floribus bilabiatis. *Royen* 238.

Chamaecerasus alpina, fructu gemino rubro duobus punctis notato. *Boerh.* ii. 227.

Chamaecerasus montana. *Cord. fol.* 213. *p.* 2, *imit. in*

Idaea Ficus nostra, vulgo Frangula. *Dalech.* 200.

Periclymeni IIII flores. *Clus. hist.* i, 59, the lower fig. *repr. in Ger. by Johns.* 1296, *& cop. in*

Periclymeni flores. *Bauh. J.* ii. 107, the upper of the two lower figures.

Periclymenum rectum IIII cum fructu. *Clus. hist.* i. 59, *repr. in*

Chamaecerasus alpigena. *Lob. obs.* 593, *&*

Xylosteum alterum. *Dod.* 407, *cop. in*

Chamaecerasus Gesneri, vel Chamaepericlymenon quoddam alpinum. *Bauh. J.* ii. 107, *&*

Chamaecerasus alpina. *Dalech.* 201, *& repr. in*

Periclymenum rectum, fructu rubro. *Ger. by Johns.* 1295. *Raii hist.* 1492, on Mount Jura and on Mount Saleve near Geneva;—*europ.* 201.

Native of Greece, the Pyrenees, the south of France and Germany, Hungary, Silesia, Savoy, and Switzerland, mostly on high mountains.

LONICERA alpigena. *Krock. n.* 332.

153. TRIOSTEUM.

Corolla monopetalous, as long as the calyx; segments nearly equal. *Berry* inferior, trilocular; cells monospermous. *From L. & Juss.*

1. TRIOSTEUM *perfoliatum*. Leaves connate. Flowers sessile. *From L a Willd.* i. 990; *sp.* 250 *Hort. kew.* i. 234. *Mill. Ph. dict. n.* 1.
T. floribus verticillatis sessilibus. *Gron. virg.* 31.
Triosteospermum latiore folio, flore rutilo. *Dill. hort.* 394. *t.* 293. *f.* 378.
TRIOSTEUM perfoliatum. *Bart.* 29. *Coxe* 377.
Triosteum. *Schoepf* 23.
Triosteospermum. *Vog.* 229.

2. TRIOSTEUM *angustifolium*. Leaves connate. Peduncles uniflorous. *From L. a Willd.* i. 991; *sp.* 250. *Mill. Ph. dict. n.* 2
T. floribus oppositis pedunculatis. *Gron. virg.* 31.
Periclymenum herbaceum rectum virginianum. *Pluk. phyt. t.* 104. *f.* 2.
Periclymeno affinis planta virginiana, flore ochroleuco. *Hist. ox. s.* 13. *t.* 1. *row* 3. *f.* 8.
TRIOSTEUM angustifolium. *Schoepf* 23.

154. CONOCARPUS.

Calyx quinquefid. *Petals* 5, or none. *Capsule* not opening, monospermous. *Obs.* 8373. 8375, and the account of the fruit from *Jacq.*—*L.*

1. CONOCARPUS *erecta*. Flowers capitate. Stem erect. Leaves lanceolate. *Obs.* 8373. Specimen in flower gathered by Broughton in Jamaica.——*Obs.* 8374. Specimen gathered by Dr. Wright in Jamaica.—*L. sp.* 250. *Hort. kew.* i. 234. *Swartz. obs.* 79. *Jacq. amer.* 8vo, 98.
C. foliis oblongis, petiolis brevibus, floribus in caput conicum collectis. *Browne* 159.

Alnus maritima myrtifolia coriariorum. *Pluk. phyt. t.* 240. *f.* 3.

Alni fructu, laurifolia arbor maritima. *Sloane cat:* 135; *hist.* ii. 18. *t.* 161. *f.* 2.

Innominata. *Plum. a Burm.* 135. *t.* 144. *f.* 2.

Frutex instar salicis pumilae, foliis salignis. *Marcgr.* 76, outer fig.

Capitula spicato-racemose, the lower pedunculate, the upper sessile. *Racemi* terminal and axillary. *Bracteae* ovato-lanceolate, acuminate, hirsute at the margin, at the base of the flowers. *Flowers* closely crowded, obconic. *Germen* inferior, obconic, villose, monospermous. *Calyx* cyathiformi-campanulate, the base narrower than the top of the germen, quinquefid; segments triangular. *Petals* none. *Stamina* 5, longer than the calyx. *Filaments* filiform, hirsute at the base. *Style* filiform, shorter than the calyx, hirsute at the base. *Obs.* 8373.

CONOCARPUS erecta. *Schoepf* 23.

155. ERITHALIS.

Corolla rotate, quinquepartite. *Calyx* quinquedentate, superior. *Berry* decemlocular. *From Browne & L.* but

Jacquin in *amer.* 8*vo*, 92 describes the berry as unilocular, and Swartz *obs.* 80, the corolla as pentapetalous.

1. ERITHALIS *polygama.* Leaves obovate. Flowers axillary, the male cymose, the hermaphrodite solitary. *Forst. G. austral. n.* 101.

β *angustifolia.* *Forst. G.*

TIMONIUS. Rumph. iii. 216. *t.* 140. Berries smooth. Leaves lanceolate. Corolla infundibuliform; tube thrice as long as the calyx.—Can it belong to this genus?

156. MUSSAENDA.

Corolla infundibuliform. *Stigmata* 2, thickish. *Berry* inferior, oblong. *Seeds* in 4 rows. *L.*

1. MUSSAENDA *villosa.*—Branches and leaves of the branches and panicle villose. *Vahl.*

M. frondosa. *Vahl. symb.* iii. 37. *L. sp.* 251; *a Murr.* 218. *Lour.* i. 188. *Forst. G. austral. n.* 102.

M. fruticosa. *L. nat.* ii. 168.

M. formosa. *L. mant.* 338.

M. zeylanica, flore rubro, fructu oblongo polyspermo, folio ex florum thyrso prodeunte albo. *Burm. zeyl.* 165. *t.* 76.

Belilla. *Rheede* ii. 27. *t.* 18.

Frutex indicus baccifer, fructu oblongo polyspermo. *Raii hist.* 1493.

FOLIUM PRINCIPISSAE. Rumph. iv. 111. *t.* 51.

157. CORIS.

Corolla monopetalous, irregular. *Calyx* inferior, spinose. *Capsule* quinquevalve. *From L.*

1. CORIS *monspeliensis. L. sp.* 252. *Hort. kew.* i. 235. *Sibth. prodr.* 149. *Host* 114. Near Trieste.

—*Gouan hort.* 102. About Montpelier, in one place annual;—*monsp.* 75. *Asso n.* 186.

C. quorundam. *Clus. hisp.* 484, about Salamanca and on the sea coast of Valentia and the south of France; *repr. in hist.* ii. 174, &

C. monspelliensium. *Lob. obs.* 220, *cop. in Park. theatr.* 571, *repr. in*

C. caerulea monspeliaca. *Ger. by Johns.* 544, &

C. monspelliaca. *Lob. ic.* i. 402. *f.* 2. *adv.* 174, *repr. in Lob. ic.* i. 402. *f.* 1.

C. monspessulana purpurea. *Bauh J.* iii. 431.

C. caerulea maritima. *Raii hist.* 882; *europ.* 106.

Symphytum petraeum. *Cam. epit.* 699.

Native of Spain, and of the shores of the Mediterranean.

CORIS. *Berg.* 115. *Linn.* 70. *Vog.* 100.

Symphytum petraeum. *Dale* 195.

158. VERBASCUM.

Corolla rotate, slightly unequal. *Capsule* of 1 cell, and 2 valves. *L.*

1. VERBASCUM *decurrens.* Leaves tomentose, decurrent. *Obs.* 1730. On hedgebanks.

V. Thapsus. *L. suec. n.* 195; *sp.* 252. *Bot. arrang.* 223. *Smith brit.* 249; *engl. t.* 549. *Woodv.* ii. 342. *t.* 125.

V. mas latifolium luteum. *Raii syn.* 287. *Tourn. paris.* 161. *Vaill. paris.* 199. *Fl. dan. t.* 631.

V. candidum mas. *Fuchs.* 803. *c.* 327, *cop. in*

V. album mas. *Dalech.* 1301,

V. angustifolium ramosum, flore aureo, folio crass-

iore. *Bauh. J.* iii. 872, (the description is that of V. pulverulentum,) &

V. angustius. *Dod.* 143, *which repr. in*

Thapsus barbatus flore albo. *Ger. by Johns.* 773.

V. I Matthioli. *Dalech.* 1298, *cop. in*

V. latius. *Dod.* 143, *which repr. in*

V. mas. *Lob. obs.* 303,

V. aut Phlomos vulgaris mas Dioscoridis. *Lob. ic.* i. 561, *cop. in*

V. album vulgare, sive Tapsus barbatus communis. *Park. theatr.* 60, & *repr. in*

Tapsus barbatus. *Ger. by Johns.* 773. *Raii cant.* 161.

VERBASCUM. Pharm. austriaco-prov. 73. *suec.* —*Alst.* ii. 241. *Berg.* 116. *Dale* 189. *Herm.* 551. 607. *Home, F. clin.* 434. *Krock. n.* 333. *Lew.* ii. 446; *disp. by Dunc.* 349; *by Rother.* 260. *Mill. Jos.* 448. *Quarin febr.* 89. 125. 282. 287. 292. 308; *animad.* 36. 37. 45. 84. 86. *Schoepf* 24. *Vog.* 139. 243.

Thapsus barbatus. *Geoffr. suite* iii. 277.

Verbasci folia, flores. *Murr.* i. 487.

Verbasci herba. *Linn.* 71.

V. mas latifolium luteum. *Chom.* 720; *suppl.* 195. *Rutty* 533.

Mullein. *Neum.* ii. 225.

2. VERBASCUM *rhombifolium.* Leaves tomentose underneath, nearly glabrous above, rhombeo-lanceolate, oblongo-lanceolate, lanceolate. Peduncles longer than the calyx. Segments of the calyx lanceolate. *Obs.* 4502. 4515.

α *album.* Corolla whitish. *Obs.* 4502. 4503. 1783. Specimens gathered on the ramparts of Brussels,

near the Rock Houses Kinfare Staffordshire, and between the Stewponey and Whittington Worcestershire.

V. Lychnitis. *L. suec. n.* 196; *sp.* 253 β *Bot. arrang.* 225 β *Smith engl. bot. t.* 58. Leaf uncoloured;—*brit.* 250. *Pollich n.* 221. *Fl. dan. t.* 586.

V. candidum foemina. *Fuchs.* 803. *c.* 327, *cop. in*

V. album foemina flore albo. *Dalech.* 1300, *&*

V. flore albo parvo. *Bauh. J.* iii. 873. *Raii hist.* 1095; *syn.* 287. *Tourn. paris.* 165. *Vaill. paris.* 200. *Boerh.* i. 228.

V. foemina. *Lob. obs.* 303, *cop. in Dalech.* 1300, *and repr. in*

Phlomos mas alter. *Lob. ic.* i. 562, *&*

V. Lychnite Matthioli. *Ger. by Johns.* 775.

V. mas, foliis longioribus. *Park. theatr.* 60. No fig.

Phlomis Lychnitis Matthioli. *Dalech.* 1303.

Corolla tomentose, without any globular glands. *Obs.* 4517.

VERBASCUM album. *Dale* 190.

3. VERBASCUM *phlomoides.* Leaves tomentose, ovate, the lower petiolate. *L. sp.* 253. *Hort. kew.* i. 236. *Roth germ.* i. 93. In Hesse, Saxony, and near Tubingen;—ii. 239. *Gouan monsp.* 74.

V. foemina, flore luteo magno. *Tourn. paris.* 163. *Vaill. paris.* 199.

V. nigrum. *Fuchs.* 804. *c.* 327, *cop. in*

V. vulgare, flore luteo magno, folio maximo. *Bauh. J.* iii. 871. (the description belongs to V. decurrens,) *& abr. in*

Verbascum. *Trag.* 217.

Thapsus barbatus maximus odoratus meridionalium. *Lob. adv.* 242. No fig.

Thapsus barbatus maximus odoratus meridionalium, femina flore albo. *Lob. ic.* i. 560, *repr. in*

V. album. *Ger. by Johns.* 775, *& cop. in*

V. maximum meridionalium odoratum album. *Bauh. J.* iii. 871. *f.* 1.

V. maximum album femina, flore subpallido. *Lob. ic.* i. 561, *repr. in*

V. Lychnite minus. *Ger. by Johns.* 775, *and cop. in*

V. maximum meridionalium odoratum luteum. *Bauh. J.* iiii. 871. *f.* 2. *Raii hist.* 1094.

Native of Italy and Germany.

VERBASCUM foemina, flore luteo magno. *Boecl. ap. Herm.* 552. *Chom.* 721. *Rutty* 533.

Thapsus barbatus alter, seu femina. *Geoffr. suite* iii. 279.

4. VERBASCUM *cordifolium.* Leaves tomentose underneath, oblongo-cordate, petiolate. *Obs.* 8215. Near Hagley Worcestershire on gravel, and plentifully between Alport and Rowsley Derbyshire, on limestone.

V. nigrum. *L. suec. n.* 197; *sp.* 253. *Bot. arrang.* 226. *Smith engl. t.* 59, leaves uncoloured; —*brit.* 251. *Raii cant.* 173. *Fl. dan. t.* 1088. *Dod.* 144, *cop. from, and Trag.* 218, *abr. from*

V. sylvestre. *Fuchs.* 804. *c.* 327, *which cop. in*

V. nigrum flore parvo apicibus purpureis. *Bauh. J.* iii. 873. *Raii syn.* 288; *hist.* 1095.

V. nigrum, flore ex luteo purpurascente. *Tourn. paris.* 165. *Vaill. paris.* 199. *Boerh.* i. 228.

V. nigrum Dioscoridis. *Lob. ic.* i. 562, *repr. in*
V. nigrum. *Ger. by Johns.* 775, *& cop. in*
Blattaria lutea odorata. *Park. theatr.* 64. (The description belongs to some other species.)
V. III. Matthioli. *Dalech.* 1299.
V. nigrum latifolium luteum. *Lob. adv.* 242. No fig.
VERBASCUM nigrum. *Dale* 189. *Rutty* 533.
Verbasci radix. *Linn.* 71. *Murr.* i. 489.

5. VERBASCUM *nitidum.* Leaves shining, crenate; radical leaves pinnatifid at the base. Peduncles solitary, longer than the calyx. *Obs.* 4508. Specimen gathered on a bank on the outside of a garden at Clevelode Worcestershire, in marle, 27 Oct. 1791, and where I had gathered it also the preceding year. The plant was not known by the inhabitants of the adjoining house ever to have grown in the garden.

V. Blattaria. *L. sp.* 254. *Gouan hort.* 103, about Montpelier;—*monsp.* 75. *Huds.* 91. About Plymouth and Ashburton Devonshire.—*Bot. arrang.* 229. *Smith engl. bot. t.* 393, from a specimen found on a bank near the Medway, 3 miles from Rochester.—*Pollich n.* 223.
V. foliis amplexicaulibus oblongis glabris, pedunculis solitariis. *L. ups.* 46.
Blattaria foliis oblongis sinuatis obtusis. *Guett.* ii. 309.
Blattaria lutea, folio longo laciniato. *Tourn. paris.* 179. *Vaill. paris.* 21. *Boerh.* i. 226.
V. leptophyllum. *Cord. fol.* 153. *p.* 1, *repr. from*
Blattaria. *Trag.* 925, *which abr. from Fuchs.* 184. *c.* 66, *which cop. in*

Blattaria lutea. *Bauh. J.* iii. 874. *Raii hist.* 1096; *europ.* 77. Italy, the south of France, and Germany.—*Dill. ap. Raii syn.* 288. In the lane betwixt Mitcham common and Casalton, and near Horns-place by Rochester.

Blattaria. *Cam. epit.* 884. *Dod.* 145, *repr. in Lob. obs.* 304,

Blattaria Plinii. *Lob. ic.* i. 564, *and Ger. by Johns.* 776, *and cop. in*

V. nigrum vulgare. *Park. theatr.* 61. (The name and description belong to V. cordifolium.)

Blattaria lutea humilior. *Cam. hort.* 26.

Blattaria flore luteo. *Ger. by Johns.* 778, *cop. in Park. theatr.* 64.

Blattaria lutea altera vulgatior. *Park. parad.* 384. No fig.

VERBASCUM Blattaria. *Krock. n.* 338.

159. DATURA.

Corolla infundibuliform, plaited. *Calyx* tubular, angular, deciduous. *Capsule* with 4 valves. *L.*

1. *Capsules spinose.*

1. DATURA *ferox.* Capsules spinose, erect, ovate; uppermost spines very large, converging. *L. sp.* 255. *Hort. kew.* i. 238.

Stramonium ferox. *Boerh.* i. 261. *Boccon. sic.* 50. *t.* 26. Spines of the capsules much shorter than in *Zanon. hist.* 210. *t.* 162, *repr. from*

D. di coccino spinosissimo. *Zanon. ist.* 76. *t.* 29, *which cop. in*

Stramonium pomo crassioribus et robustioribus spinis armato. *Hist. ox. s.* 15. *t.* 2. *row* 3. *f.* 4, in which the margin of the leaves made more dentate.
Stramonium longioribus aculeis. *Barrel. t.* 1172.
Solanum foetidum, pomo grandibus aculeis donato. *Raii hist.* 748.
DATURA. Dale 185.
D. ferox. *Saunders in Turner trav.* 398.

2. DATURA *Stramonium.* Capsules spinose, erect, ovate. Leaves ovate, glabrous. *L. suec. n.* 198; *sp.* 255. *Bot. arrang.* 230. *Woodv.* ii. 338. *t.* 124. *Curt. lond.* vi. *t.* 17. *Pollich n.* 224. *Fl. dan. t.* 436. *Smith brit.* 254; *engl. t.* 1288.
D. turcarum. *Besl. hort. aut. ord.* 2. *fol.* 12. *t.*
Datura. *Browne* 167. *Dalib.* 70. *Spalowsky* 1. *t. cop. in*
Stramonium. *Med. mus.* i. 448. *t.* 6.
Stramonium foetidum. *Scop. carn. n.* 252.
Solanum pomo spinoso oblongo, flore calathoide, Stramonium vulgo dictum. *Raii syn.* 266; *ed.* ii. 150, (the 3 following paragraphs belong to the preceding plant, Atropa Belladouna.)
Stramonia altera major, sive Tatura (a misprint for D. or Tatula) quibusdam. *Bauh. J.* iii. *b.* 624. *Sloane cat.* 59.
Tatula. *Cam. epit.* 176.
Solanum manicum Dioscoridis. *Column. phytob.* 46. *t.* 47.
Stramonium spinosum. *Ger. by Johns.* 348.
Stramonium majus album. *Park. parad.* 360. *Raii hist.* 748.
Stramonium majus, seu Pomum spinosum. *Park. parad. t.* 361. *f.* 4.

Native of America, now found in Europe on rubbish and dunghills, and once in the middle of a wide sandy road not far from the Stewponey inn near Stourton castle Worcestershire, but whether it propagates itself in those places is doubtful.

STRAMONIUM. Pharm. succ.—Bart. 18, *republ. in phys. journ.* viii. 426. *Berg.* 120. *Chalm.* ii. 67. 101. 179. *Cull.* ii. 281. *Dale* 185. *Fowler, T. in med. comment.* v. 161. *Geoffr. suite* iii. 126. *Lentin, account from in phys. journ.* iii. 575. *Lew.* ii. 390. *Mease, account from in phys. journ.* viii. 88; *and chir. rev.* viii. 534. *Mill. Jos.* 426. *Monro* iii. 276. *Murr.* i. 456. *Odhelius, account from in med. comment.* i. 368. *Papin in phil. trans. abr. by Jones* v. *part* ii. 185; *and by Hutton* vi. 53. *Quarin animad.* 24. *Razoux, account from in med. journ.* ii. 292. *Rush, account from in med. comment.* i. 74. *Rutty* 500. *Schoepf* 24. *Spielm.* 524. *Storck's experiments translated in med. mus.* i. 446. *Swaine in phys. ess.* ii. 272. *Wedenberg, account from in med. comment.* iii. 18.

Datura. *Krock. n.* 339. *Linn.* 72. *Vog.* 176.

D. Stramonium. Herb. *Pharm. edin.—Bart.* 46. *Bartram, Moses in philad. coll.* i. 199; *and account from in med. comment. dec. II.* ix. 161. *Cooper, account from in chir. rev.* xvii. 4. *De Witt, account from in phys. journ.* i. 84. *Johnson, James of Lancaster, in med. facts* v. 78. *King, account from in phys. journ.* i. 278. *Lew. disp. by Dunc.* 217. *Med. journ.* x. 285. *Murr. J.* i. 134. *Pearson, R.* ii. 236. *Ploucq. bibl.* i. 302. 414. 640.

Stramonium officinarum. *Spalowsky* 30.

Thorn-apple. *Hufeland, account from in phys. journ.* iii. 488.

3. DATURA *Tatula.* Capsules spinose, erect, ovate. Leaves glabrous, dentate. *From L. sp.* 256, *and Roth. germ.* ii. 237. *Hort. kew.* i. 239. *Mill. Ph. dict. n.* 2. *Honck. n.* 598.

Stramonium fructu spinoso oblongo, caule et flore violaceo. *Boerh.* i. 261.

Stramonium majus purpureum. *Park. parad.* 360. *Raii hist.* 748. In his garden at Cambridge.

STRAMONIUM fructu spinoso oblongo, flore violaceo. *Tourn.* 301.

4. DATURA *Metel.* Capsules spinose, nodding, globose. Leaves cordate, nearly entire, pubescent. *L. sp.* 256. *Hort. kew.* i. 239. *Lour.* i. 135.

Stramonium fructu spinoso rotundo, flore albo simplici. *Boerh.* i. 261.

Dutra alba. *Rumph.* v. 243. *t.* 87. *f.* 1. Spines not longer than those of D. fastuosa.

Stramonia. *Dod.* 457, *repr. in ed.* ii. 660, *cop. in Dalech.* 629, *repr. in*

Stramonium peregrinum. *Lob. obs.* 136; *ic.* i. 261, *and Ger. by Johns.* 349, *and cop. in*

Stramonicum minus sive peregrinum simplex. *Park. theatr.* 355.

Stramonia, sive Solanum mortale. *Fuchs.* 654. *c.* 265, *cop. in*

Stramonia, sive Pomum spinosum. *Trag.* 896, &

Stramonia multis dicta, sive Pomum spinosum. *Bauh. J.* iii. 624. *f.* 2.—*f.* 1.

Stramonium minus, seu Nux Metel flore albo. *Park. parad.* 360.

D. seu Stramonium minus. *Park. parad. t.* 361. *f.* 5.
D. Acostae. *Dalech.* 1913.
Nux Metel. *Matth.* 280.
Nux Metella. *Cam. epit.* 175.
Hummatu. *Rheede* ii. 47. *t.* 28.
DATURA. Berg. 123.
Pomme epineuse. *Chom.* 788.

5. DATURA *fastuosa.* Capsules tuberculate, nodding, globular. Leaves ovate, angular. *L. à Murr.* 220; *sp.* 256. *Hort. kew.* i. 239. *Mill. Ph. dict. n.* 6.
DATURA rubra. *Rumph.* v. 243.
α *simplex.* Corolla single. *From*
NILA HUMMATU. Rheede ii. 49. *t.* 29. Fruit represented as glabrous, but described as sometimes beset with rigid points.
β *duplicata.* One corolla within another. *Obs.* 6486. In Mr. S. Shore's garden raised from seeds from the Calcutta garden.
D. rubra. *Rumph.* v. 243. *t.* 87. *f.* 2.
Stramonium, fructu spinoso rotundo, flore violaceo duplici triplicive. *Boerh.* i. 261.
Stramonium minus, flore geminato purpurante. *Park. parad.* 362. *t.* 361. *f.* 7.
Mudela-nila hummatu. *Rheede* xi. 51. *t.* 30. Capsules represented as glabrous. Leaves scarcely repandose.
Leaves ovate, unequal at the base, dentate. *Obs.* 6486.

160. HYOSCYAMUS.

Corolla infundibuliform. *Capsule* operculate, with 2 cells. *Obs.* 6045. *L.*

1. HYOSCYAMUS *niger*. Leaves amplexicaul, sinuate. Flowers nearly sessile. *Obs.* 6045. At Whiston near Rotherham Yorkshire.—*L. suec. n.* 199; *sp.* 257. *Bot. arrang.* 231. *Woodv.* i. 143. *t.* 52. Corollae too yellow.—*Scop. carn. n.* 253. *Smith brit.* 254; *engl. t.* 591. Corollae too yellow.—*Dod.* 447, *repr. in Lob. obs.* 139, *Ger. by Johns.* 353, *cop. in med. mus.* i. 507. *t.* 7, *and repr in*

Hyoscyamos. *Lob. ic.* i. 268, *& abr. in*

H. niger, vel vulgaris. *Park. theatr.* 363.

H. vulgaris, vel niger. *Tourn. paris.* 201. *Vaill. paris.* 106. *Boerh.* i. 229. *L. lapp. n.* 87. A single plant.

H. flavus. *Fuchs.* 791, *c.* 323, *cop. in*

H. vulgaris. *Bauh. J.* iii. 627. *Raii hist.* 711; *syn.* 274. *Besl. hort. aestiv. ord.* 8. *fol.* 8 *t.*

Hyoscyamus. *Trag.* 133. *Spalowsky t. Dalech.* 1716. *Cam. epit.* 807.

Leaves semipinnatifid; segments acute. *Corolla* strawcoloured with purple veins. *Obs.* 6045.

Native of Europe.

HYOSCYAMUS. Pharm. suec.—Berg. 23. *Bree* 285. *Buchhave in act. haun.* i. 226. *Chir. rev.* xii. *part* ii. 93. *Collin obs.* ii. 130. *Cull.* ii. 271; *clin.* 233. 276; *pract. n.* 1342. 1445. *Dale* 181. *Fotherg. Ant. in med. soc.* i. 310, *republ. in med. comment.* xiii. 90. *Hecker, account from in phys. journ.* vi. 94. *Hill* 543. *Himly, account*

from in phys. journ. vi. 275. *Home F. clin.* 197. *Hufeland, account from in phys. journ.* i. 284; iii. 576; *med. rev.* ii. 453. *and chir. rev.* vii. 62; viii. 143. *Krock. n.* 340. *Lew.* i. 449. *Murr.* i. 444. *Ploucq. bibl.* i. 264. 281. 334. 349. 579. 692. *Razoux, account from in med. journ.* ii. 293. *Spielm.* 512. *Stoll med.* iii. 13. 423. *Vog.* 104. 169. 238. *Withering in med. comment. dec II.* vi. 367.

H. niger. Herb. Seed. *Pharm. edin.—Alst.* ii. 356. *Geoffr.* iii. 593. *Hartz, account from in chir. rev.* viii. 374. *Horles, account from in med. rev.* vii. 74. *Kinglake in phys. journ.* v. 438. *Lew. disp. by Dunc.* 236. *Linn.* 72. *Mill. Jos.* 236. *Monro* iii. 134. *Murr. J.* i. 126; ii. 22. 78. *Pearson, R.* ii. 215. 237. *Rutty* 242. *Stoll med.* ii. 183.

H. officinarum. *Spalowsky* 33. *t.*

Henbane. *Bree* 251. 253. 257. *Brown, Jos. in phys. journ.* iii. 406. *Dyce in phys. journ.* ii. 271. *Patouillat in acad. sc. abr. by Southw.* iii. 149. *Sloane in phil. trans. abr. by Hutton* vii. 610, *and in Mihles ess.* ii. 278, *which republ. in med. mus.* iii. 231. *Storck, account from in med. mus.* i. 497. *Wilmer, account from in med. journ.* i. 338.

H. vulgaris, vel niger. *Boecl. ap. Herm.* 434. *Chom.* 778; *suppl.* 205.

2. HYOSCYAMUS *albus.* Leaves on petioles, sinuate, obtuse. Flowers sessile. *L. sp.* 257. *Hort. kew.* i. 240. *Raii hist.* 712. On walls and rocks about Geneva.—*Sibth. prodr. n.* 532. In Greece. —*Dalech.* 1717. *Dod.* 448, *repr. in Lob. obs.* 139; *ic.* i. 269, *and Ger. by Johns.* 353. *Gouan*

hort. 105. About Montpelier.—*Bauh. J.* iii. 627. At Orange in Provence.—*Besl. hort. aestiv. ord.* 8. *fol.* 8. *t.*

H. candidus. *Trag.* 134.

H. albus major, vel tertius Dioscoridis, et quartus Plinii. *Boerh.* i. 230.

H. albus vulgaris. *Clus. hist.* ii. 84, *cop. in*

H. albus minor. *Bauh. J.* iii. 628.

Native of Greece, the south of France, and Switzerland.

HYOSCYAMUS albus. *Alst.* ii. 356. *Dale* 181. *Geoffr.* iii. 594. *Hamilton, Archib. in phys. ess.* ii. 268. *Krock. n.* 341. *Lew.* i. 499. *Mill. Jos.* 237. *Murr.* i. 255. *Rutty* 240. *Sauv.* ii. 694.

Hyoscyamus. *Herm.* 433.

161. NICOTIANA.

Corolla infundibuliform; limb plaited. *Stamina* inclinate. *Capsule* bivalve, bilocular. *L.*

1. NICOTIANA *fruticosa.* Leaves lanceolate, subpetiolate, amplexicaul. Segments of the corolla acute. Stem frutescent. *L. a Murr.* 221; *sp.* 258. *Hort. kew.* i. 241. *Mill. Ph. dict. n.* 4.

NICOTIANA fruticosa. *Lour.* i. 136.

2. NICOTIANA *Tabacum.* Leaves lanceolato-ovate, and lanceolate, decurrent. Segments of the corolla acute. *Obs.* 1521. In a garden.—*L. sp.* 258. *Hort. kew.* i. 241.

N. major latifolia. *Sloane cat.* 51.

Nicotiana. *Hamilton, Rob. diss. inaug. t.* 1. *at p.* 4.

NICOTIANA. Tobacco. Leaves. *Pharm. lond.* —*Alst.* ii. 189. *Bishopric in med. comment. dec. II.* viii. 382. *Blune* 555. *Bartlett in phys. journ.* xii. 401. *Cartheus.* ii. 507. *Chalm.* i. 98. *Chom.* 76. *Cull.* ii. 272. 438. *Dale* 181. *Darw.* ii. 682. *Dove in med. comment. dec. II.* viii. 379. *Ferriar* i. 75; ii. 152. *Garnet in med. comment. dec. II.* vi. 271. *Heberd.* 225. 244. 400. *Herm.* 541. *Lew.* ii. 133. *Mill. Jos.* 312. *Monro* iii. 184. *Murr.* i. 464; *J.* i. 283. 329. 344. *Noble, account from in chir. rev.* x. 400. *Quarin febr.* 398. 402; *animad.* 129. *Ploucq. bibl.* i. 370. 234. 642. *Rutty* 316. *Simmons, W. in phys. journ.* vii. 57. *Spielm.* 537. *Stoll aph. n.* 320; *med.* ii. 183. *Vog.* 71.

Tabacum. *Berg.* 117. *Fordyce, W. fragm.* 58. *Haen.* i. 55. 87. 93. *Heberd.* 56. 61. *Linn.* 73. *Quarin febr.* 391; *animad.* 14. 31. 111. *Schoepf* 25. *Wintringham in Mead mon.* i. 270.

Tobacco. *Bartr. Mos. in philad. coll.* i. 195; *and account of in med. comment. dec. II.* ix. 161. *Bishop in phys. journ.* vi. 318. *Blair in med. soc.* v. 328; *and phys. journ.* xvii. 20. *Bree* 251. 261. *Chalm.* i. 98. *Conradi, account from in med. rev.* iv. 191. *Cooper, account from in chir. rev.* xi. 330. *Cull. pract. n.* 1126 1198. 1447. *Darw.* ii. 56. 69. 105. 111. 312. 495. 701. 719. 745. *Dewar, account from in phys. journ.* ix. 177. *Ferriar* i. 93. *Fowler, T. reports on, and account from in med. comment.* x. 123; *and med. journ.* vi. 185. *Garden in med. comment.* iii. 330. *Graing.* 42. *Grant in med. comment. dec. II.* i. 327. *Hamilton, Rob. of Ipswich, account from in chir. rev.* i. 505. *Hawkins life of Johns.* 320. *Heberd. in med. trans.* i. 47. *Hey, account*

from in chir. rev. ix. 71. *Hunter, J. oecon.* 124; *J. jam.* 291. *Kilgour in med. comment.* viii. 75. *Killer in phys. journ.* vi. 322. *Lata, account from in chir. rev.* i. 369. *Mogniot in acad. surg.* 370. *Neum.* ii. 115. *Pemberton, account from in chir. rev.* xiii. 23. *Pott* ii. 72. 85; iii. 303. 306—311. *Power, account from in chir. rev.* ix. 152. *Rosenst.* 196. *Smyth jail dist.* 177. *Stedman in med. ess.* ii. 41. *Turner in med. obs.* ii. 309. *Underwood* i. 12; ii. 16. *Ware ophth.* 52. 178. *Weston in phys. journ.* xiv. 305.

N. Tabacum. *Pharm. edin.—Bart.* 41. *Lew. disp. by Dunc.* 264. *Murr. J.* i. 133. 242. 302; ii. 62. *Pearson, R.* i. 11. 151. 203. 227; ii. 239. 258.

α *latifolia.* Leaves oblongo-ovate. *From*

N. foliis amplis oblongo-ovatis, floribus comosis. *Browne* 167.

N. major latifolia. *Boerh.* i. 230.

N. major, sive Tabacum majus. *Bauh. J.* iii. 629.

Tabacco latifolium. *Park. parad.* 363. *t.* 361. *f.* 8. *Raii hist.* 713.

N. sive Tabacum. *Dalech.* 1895.

Sana sancta indorum, sive N. gallorum. *Lob. adv.* 251, *repr. in ic.* i. 584.

Hyoscyamus peruvianus. *Dod.* 449, *repr. in Ger. by Johns.* 357.

Βλεννοχοις. *Renealm.* 38. *t.* 37, misengraved 33.

NICOTIANA major latifolia. *Chom.* 126; *suppl.* 44.

N. major. *Geoffr. suite* i. 164.

β *angustifolia.* *Hort. kew.* i. 242.

N. angustifolia. *Mill. Ph. dict. n.* 3.

N. Tabacum. *Berg. mat. med. n.* 76. *Woodv.* 162. *t.* 60.

Tobacco angustifolium. *Park. parad.* 363? No fig. *Raii hist.* 714? In a garden.

N. major angustifolia. *Boerh.* i. 230?

Herba sancta, sive Tabacum minus. *Lob. obs.* 316, *repr. in*

Tabacum, sive Herba sancta minor. *Lob. ic.* i. 585,

Hyoscyami peruviani altera icon. *Dod.* 449, *&*

Sana sancta indorum. *Ger. by Johns.* 357?

NICOTIANA major angustifolia. *Chom.* 127.

N. major, seu Tabacum angustifolium. *Geoffr. suite* i. 167.

3. NICOTIANA *rustica.* Leaves petiolate, ovate; margin entire, Segments of the corolla obtuse. *L. sp.* 258. *Hort. kew.* i. 242. *Krock. n.* 342.

N. minor. *Boerh.* i. 230. *Dod. ed.* ii. 454; *repr. from*

Hyoscyamus luteus. *Dod. ed.* i. 447, *which repr. in Ger. by Johns.* 356,

Hyoscyamus dubius luteolus solanifolius. *Lob. obs.* 140; *& ic.* i. 269.

Priapeia, quibusdam N. minor. *Bauh. J.* iii. 630. *Raii hist.* 715.

Hyoscyamus niger. *Dalech.* 1717.

Native of America, and sometimes found on dung-hills in England.

Cultivated by Gerarde in 1596.

NICOTIANA minor. *Boecl. ap. Herm.* 543. *Dale* 181. *Lew.* ii. 135. *Mill. Jos.* 313.

Nicotiana. *Pharm. austriaco-prov.* 52.

N. foemina. *Geoffr. suite* i. 167.

Petum anglicum. *Pharm. batean.* 144.
English Tobacco. *Culpepp.* 324.

162. ATROPA.

Calyx inferior, quinquefid. *Corolla* campanulate, semiquinquefid. *Berry* with 2 cells. *Obs.* 6673. *L.*

1. ATROPA *Belladonna.* Stem herbaceous. Leaves entire. *Obs.* 6673. On rubbish below the Old Hall in Hardwick Park Derbyshire, and near a quarry of gritstone to the south of the Old Hall, which stands on limestone. 8 July.—*L.*—*Curt. lond.* v. *n.* 16. *t.* 347. *Bot. arrang.* 233. *Retz. scand. n.* 276. In woods.—*Smith brit.* 255; *engl. t.* 592. *Asso n.* 194. *Woodv.* i. 1. *t.* 1. *Bulliard t. Jacq. vind.* 35, in mountainous woods; *austr.* iv. *t.* 309. *Fl. dan. t.* 758, in a wood.—*Mill. Ph. dict. n.* 1; *ic. t.* 62. *Sibth. ox. n.* 242, in Whichwood forest;—*prodr. n.* 535, on Mount Athos.

Belladona. *Vaill. paris.* 20.

Belladonna majoribus foliis et fructibus. *Tourn. paris.* 397.

Belladonna. *Raii syn.* 265. *Clus. pann.* 503, *repr. in*

Solanum lethale. *Clus.* ii. 86, *Dod. ed.* i. 453, *ed.* ii. 456, *and Ger. by Johns.* 340, *cop. in Park. theatr.* 346, *& repr. in*

Solanum somniferum lethale. *Lob. obs.* 134; *& ic.* i. 263.

Solanum somnificum Fuchsii. *Dalech.* 1721.

Solanum somniferum. *Fuchs. ed. fol.* 689, *cop. in* 653. *c.* 265, *abr. in*

Solanum hortense. *Trag.* 301, *& cop. in*

Solanum manicum multis, sive Belladonna. *Bauh. J.* iii. 611. *f.* 2. *f.* 3.

Pubescent. *Stem* dichotomous, tough. *Leaves* elliptico-ovate, acute, at the dichotomies of the branches mostly opposite, above in pairs at each joint on one side of the branch, the lowermost of each pair smaller than the upper, the young ones shining, afterwards dull; veins sparingly pubescent. *Flowers* pendulous, solitary, between one of the leaves and the dichotomy, or between the 2 leaves and the branch. *Peduncles* about as long as the flower. *Calyx* partito-quinquefid; segments triangular, acute. *Corolla* campanulate, somewhat tubular at the base, purplish brown, semiquinquefid, pubescent on the outside; segments triangular, acute, somewhat recurvate. *Stamina* as long as the corolla, inserted into the tube. *Filaments* incurvate at the end, pubescent at the base, glabrous above the flexure. *Antherae* oval. *Pistil* at first shorter, at length as long as the corolla. *Stigma* semiorbicular, green. *Obs.* 6673.

Native of Europe from Greece and Spain to Norway, but not of Sweden. In Britain it has been found in different places from Rochester to Icolmkil, but I have never met with it excepting near old buildings as castles, halls, and abbies.

BELLADONNA. Pharm. suec.—Arnemann, account from in phys. journ. i. 26; *and chir. rev.* vi. 193. *Berg.* 127. *Bree* 251. *Boulduc in acad. sc. abr. by Southw.* iii. 242. *Brumwell in med. obs.* vi. 222. *Chom.* 786. *Cull.* ii. 269. *Evers, account from in med. journ.* ii. 14. *Fordyce, G. pract.* 209. *Geoffr.* iii. 163. *Geudron in*

phil. trans. abr. by Hutt. iv. 471. *Goettling, account from in phys. journ.* vi. 475. *Graham in med. comment.* i. 419. *Grassmeyer, account from in phys. journ.* iii. 368. *Hahnemann, account from ib.* vi. 368. *Hufeland, account from in med. rev.* ii. 454. *Kaeufer, account from in phys. journ.* ii. 72. *Krock. n.* 343. *Linn.* 73. *Munch, account from in med. comment.* xii. 137. *Murr.* i. 430. *Paget in phys. journ.* vi. 352; *chir. rev.* viii. 290; *and med. rev.* vii. 364. *Phys. journ.* ii. 466. *Quarin animad.* 17. 25. 249. *Reimarus, account from in chir. rev.* iv. 459, *and phys. journ.* iii. 367. *Rutty* 490. *Saunders, J. in phys. journ.* xvi. 55. *Sauter, account from ib.* vi. 93. *Schwin, account from in med. journ.* ii. 16. *Spielm.* 507. *Stoll med.* iii. 405—416. *Theden, account from in phys. journ.* ii. 182. *Wainwright, T. in phys. journ.* iv. 5. *Vog.* 270.

A. Belladonna. Leaves. *Pharm. edin.—Buchhave, account from in med. comment. dec. II.* viii. 128. *Lew. disp. by Dunc.* 164. *Murr. J.* i. 127; ii. 21. *Pearson, R.* ii. 212. 230. *Ploucq. bibl.* i. 12. 34. 409. 452. 601. 622. 638. *Ranöe in act. med. haun.* ii. 346.

Solanum Belladonna. *Lew.* ii. 372.

Solanum lethale. *Dale* 172. *Mill. Jos.* 416.

Solanum furiosum. *Pharm. austriaco-prov.* 68.

2. ATROPA *acaulis.* Scapi uniflorous. *Obs.* 7951. Specimen gathered in Mr. Thompson's nursery.

A. Mandragora. *L. sp.* 259. *Hort. kew.* i. 242. *Woodv.* iv. 35. *t.* 225.

Mandragora officinarum. *Mill. Ph. dict.*

Mandragora fructu rotundo. *Boerh.* ii. 70.

Mandragora. *Fuchs.* 515. *c.* 202, *cop. in*

Mandragoras mas. *Bauh. J.* iii. 617. *Dalech.* 1726. *Park. parad. t.* 381. *f.* 2.

Mandragora. *Trag.* 696, *repr. in*

Mandragoras albus. *Cord. fol.* 204. *p.* 2.

Mandragoras. *Dod.* 454, and the fruit marked maris, *repr. in*

Mandragoras mas. *Lob. ic.* i. 267, *and Ger. by Johns.* 352, *and cop. in*

Mandragora. *Theophr. a Stapel.* 585, *&*

Mandragoras mas et foemineus. *Park. theatr.* 344, and the inner fruit.

Mandragora mas. *Magn. hort.* 130.

MANDRAGORA. Pharm. suec.—Alst. i. 479. *Dale* 170. *Herm.* 180. *Lew. disp. by Rother.* 192. *Linn.* 73. *Mill. Jos.* 283. *Murr.* i. 441. *Rutty* 306. *Spielm.* 513. *Vog.* 239.

Mandragora mas seu candida. *Geoffr.* iii. 808.

Mandragora fructu rotundo. *Chom.* 782.

β *angustifolia.* Leaves smaller, narrower and more undulate. *From Lamarck, quoted in L. a Willd.* i. 1017.

Mandragora flore subcaeruleo purpurascente. *Boerh.* ii. 70.

Mandragora femina. *Clus. hisp.* 400. *No fig.—hist.* ii. 87. *Bauh. J.* iii. 618. *No fig.—Magn. hort.* 130.

Mandragoras foemina. *Cord. fol.* 204. *p.* 2, *cop. in Dalech.* 1726, with turbinate capsules without calyces, which copied with the addition of a calyx in the figures of Dod. Lob. Ger. by Johns. and Park. cited under *α*.

MANDRAGORA foemina, seu nigra. *Geoffr.* iii. 808.

M. flore subcaeruleo purpurascente. *Boecl. ap. Herm.* 182. *Chom.* 782.

163. NICANDRA.

Calyx quinquepartite, with 5 angles projecting backwards. *Corolla* campanulate, semiquinquefid. *Berry* with 3, 4, and 5 cells. *Obs.* 6047. *Juss.* 125. *Gaertn. t.* 131. *Adans.*

1. NICANDRA *physaloides*. *Gaertn.* ii. 237. *t.* 131.
Atropa physalodes. *L sp.* 260; *mant.* 339.
Atropa physaloides. *L. a Murr.* 221. *Hort. kew.* i. 243. *Jacq. obs.* iv. 12. *t.* 98.
PHYSALIS peruviana. *Mill. Ph. dict. n.* 16.

164. PHYSALIS.

Corolla rotate, and campanulate. *Antherae* connivent. *Berry* superior, of 2 cells within an inflated calyx. *Obs.* 6048. *L.*

1. *Perennial.* L.

1. PHYSALIS *flexuosa*. Stem fruticose. Branches flexuose. Flowers crowded. *L. sp.* 261.
Baccifera indica, floribus ad foliorum exortus, fructu sulcato decapyreno. *Raii hist.* 1632, *from PEVETTI*. *Rheede* iv. 113. *t.* 55.

2. PHYSALIS *Alkekengi*. Leaves rhombeo-ovate, the upper in pairs. Stem herbaceous, mostly simple. *Obs.* 6048. In a garden.—*L. sp.* 262. *Hort. kew.* i. 245. *Host* 117. Woods, hedges, and near villages.—*Jacq. vind.* 35. Woods near the Danube.—*Woodv.* iv. 33. *t.* 224. *Gouan hort.* 108. Near Montpelier.—*Lour.* i. 164.

P. Halicacabum. *Scop. carn. n.* 256.
Physalis. *Dalib.* 73.
Solanum vesicarium. *Dod.* 451, *repr. in*
Solanum Halicacabum. *Ger. by Johns.* 342, *cop. in*
Alkakengi, sive Halicacabum vulgare. *Park. theatr.* 463, *and abr. in*
Alkakengi, sive Solanum Halicacabum et vesicarium. *Park. parad. t.* 531. *f.* 5.
Halicacabum vulgare. *Fuchs.* 652, *cop. in*
Halicacabon. *Trag.* 302, *&*
Solanum Halicacabum vulgare. *Bauh. J.* iii. 609. *Raii hist.* 681, on an island in the Danube near Vienna, and on rubbish near Rome.

Calyx campanulate, semiquinquefid, many times smaller than the corolla, gradually increasing in size after the impregnation of the germen, becoming much larger than the corolla had been, and being ovate decangular acute quinquedentate and umbilicate at the base. *Corolla* campanulate, pentagonal, with an emarginature between each angle, pubescent, whitish. *Stamina* thrice as short as the corolla. *Filaments* subulate, villose at the base. *Antherae* with 2 cells; cells opening laterally. *Obs.* 6048.

Native of Italy, France, and Germany.

ALKEKENGI. Alst. ii. 254. *Berg.* 130. *Chom.* 210. *Dale* 172. *Geoffr.* iii. 55 *Herm.* 318. *Krock. n.* 344. *Lew.* i. 44. *Linn.* 74. *Mill. Jos.* 22. *Murr.* i. 463. *Rutty* 13. *Schrod.* 529. *Spielm.* 650. *Vog.* 269.

3. PHYSALIS *viscosa.* Stem herbaceous, paniculate above. Leaves repandose, obtuse, subtomentose, those of the branches often in pairs. *From L.*

sp. 261, *and Jacq. hort. t.* 136. *Hort. kew.* i. 244.

Alkekengi bonariense repens, bacca turbinata viscosa. *Dill. hort.* 11. *t.* 10. *f.* 10.

PHYSALIS viscosa. *Schoepf* 25.

2. *Annual.* L.

4. PHYSALIS *angulata.* Very much branched. Branches angular, glabrous. Leaves ovate, dentate. *L.—H. K.* i. 245.

P. annua ramosissima, ramis angulosis glabris, foliis dentato-serratis. *L. ups.* 50, where for Comm. read Cam.

Alkekengi indicum majus. *Boerh.* ii. 66.

Halicacabum sive Solanum indicum. *Cam. hort.* 70. *t.* 17, *cop. in*

Solanum, sive Halicacabum indicum. *Bauh. J.* iii. 609.

β *capsicifolia.—L.*

Alkekengi indicum glabrum capsici folio. *Dill. hort.* 12. *t.* 11. *f.* 11.

Solanum vesicarium erectum, solani vulgaris folio. *Sloane cat.* 110.

PHYSALIS. Browne 176.

5. PHYSALIS *minima.* Stem very much branched. Peduncles of the fruit longer than the leaves. Leaves villose. *L. sp.* 263. *Hort. kew.* i. 246. *Mill. Ph. dict. n.* 11.

Alkekengi indicum minimum, fructu virescente. *Boerh.* ii. 66.

Solanum vesicarium indicum minimum. *Herm. hort.* 569. *t.* 571.

Inota-inodien, seu Moetoe. *Rheede* x. 139. *t.* 70.
(Pee-inota-inodien. *Rheede* x. 140. *t.* 71, is a different plant.)
HALICACABUS. Bont. 149.

165. SOLANUM.

Corolla rotate. *Antherae* mostly coherent. *Berry* superior, bilocular. *Obs.* 6483. *L.*

Antherae nearly united in most of the species, but in S. bonariense and laciniatum distinct; mostly opening at the end by 2 pores, but in S. Lycopersicon opening laterally.

1. *Without prickles or spines.*

1. SOLANUM *laciniatum.* Leaves pinnatifid; segments ensiform. Stem fruticose, glabrous. Corymbi axillary, 2 and 3 together. *Obs.* 8299. In Mr. Sitwell's garden. 10 June.—*Hort. kew.* i. 247; iii. 501. *Curt. mag. t.* 349.
SOLANUM aviculare. *Forst. G. esculent.* 42.

2. SOLANUM *Dulcamara.* Stem frutescent. Upper leaves mostly trilobate. Cymes mostly opposite to the leaves. *Obs.* 1491. On the sides of moist ditches.—*L. suec. n.* 201; *sp.* 264. *Bot. arrang.* 235. *Fl. dan. t.* 607. *Woodv.* 97. *t.* 33. *Pollich n.* 228. *Curt. lond.* i. 1. *t. Smith brit.* 256; *engl. t.* 565.
S. scandens, seu Dulcamara. *Tourn. paris.* 43. *Vaill. paris.* 188. *Boerh.* ii. 67.
S. lignosum, sive Dulcamara. *Park. theatr.* 349.

The description. (The figure has another name.) —*Raii hist.* 672; *syn.* 265.

Amara dulcis. *Tab. ic.* 893. *Lob. ic.* i. 266, *repr. in Ger. by Johns.* 350,

Dulcamara. *Dod.* 398, &

Circaea monspeliensis. *Lob. obs.* 136, & *cop. in*

Dulcamara, seu Solanum lignosum. *Park. theatr.* 350.

Dulciamara. *Dalech.* 1413.

Vitis sylvestris. *Cam. epit.* 986.

Dulcis amara. *Trag.* 816.

Glycypicros, sive Amara dulcis. *Bauh. J.* ii. 109.

Native of Europe from Italy to Sweden.

DULCAMARA. Pharm. austriaco-prov. 36. *suec.* —*Berg.* 130. *Chom.* 77. *Cull.* ii. 554. *Geoffr.* iii. 412. *Haen* i. 355. *Hallenberg, account from in med. comment.* iii. 15. *Krock. n.* 345. *Lew.* ii. 375; *disp. by Dunc.* 306. *Linn.* 74. *Monro* iii. 102. *Murr.* i. 423. *Quarin febr.* 335; *animad.* 110. 113. *Richter, account from in chir. rev.* i. 98. *Schoepf* 26. *Stoll med.* iii. 158. 167. *Vog.* 193.

S. Dulcamara. *Coste and Willemet, account from in med. comment.* v. 298. *Hufeland, account from in med. rev.* ii. 454. *Murr. J.* i. 302. *Pearson, R.* i. 233. 262. *Ploucq. bibl.* i. 431.

S. lignosum. *Dale* 171. *Mill. Jos.* 415. *Rutty* 170.

S. scandens, seu Dulcamara. *Chom.* 784; *suppl.* 209.

Amara dulcis. *Percival T.* ii. 275.

Douce amere. *Carrere, account from in phys. journ.* i. 307.

3. SOLANUM *nigrum.* Stem herbaceous. Leaves

ovate, dentato-angular. Racemi distichous, nodding. *L. suec. n.* 200; *sp.* 266. *Bot. arrang.* 236. *Smith brit.* 256; *engl. t.* 566. *Woodv.* iv. 37. *t.* 226. *Curt. lond.* ii. 14. *t. Fl. dan. t.* 460.

S. hortense. *Dod.* 451, *repr. in Ger. by Johns.* 339, *& cop. in*

S. vulgare. *Park. theatr.* 346. *Raii hist.* 672; *syn.* 265. 266. *par.* 1, 2, 4, 5.

S. hortense. *Fuchs.* 651. *c.* 265. *cop. in*

S. hortense, sive vulgare. *Bauh. J.* iii. 608, *and abr. in*

S. vulgare. *Trag.* 303.

S. officinarum, acinis nigricantibus. *Boerh.* ii. 67.

Peduncle extra-axillary, but frequently above the middle of the internodium. *Obs.* 8650. In driving sand between Kidderminster and Stourport plentifully, some only 2½ inches high. Common in Worcestershire, Warwickshire, and Staffordshire, but in the circuit of 17 miles round Chesterfield I have hitherto observed only 1 plant at Whiston near Rotherham.

SOLANUM. Pharm. austriaco-prov. 68. *suec.* —*Berg.* 140. *Boerh.* 507, *species* 4. *Fordyce, G. pract.* 209, *Gataker on.*—*Geoffr. suite* iii. 87. *Krock. n.* 346. *Lew.* ii. 372. *Linn.* 75. *Murr.* i. 427. *Schoepf* 26. *Spielm.* 523.

S. hortense. *Mill. Jos.* 414. *Rutty* 489.

S. officinarum. *Chom.* 784; *suppl.* 209. *Dale* 170. *Boerh. aph. n.* 976.

β *virginicum.* Branches angular, dentate. Leaves repandose, glabrous. *L. sp.* 266. ε. *Swartz obs.* 83. *Hort. kew.* i. 249.

S. nigrum vulgari simile, caulibus exasperatis. *Dill. hort.* 368. *t.* 275. *f.* 256. Lower leaves sinuate, incise.

SOLANUM humilius diffusum, foliis ovatis, ramulis marginatis, umbellulis florum sparsis. *Browne* 174.

γ *tomentosum.* Leaves tomentose, subcrenate. Stem glabrous. Umbels axillary. *From*
SOLANUM nigrum. *Lour.* i. 160.

2. *Leaves pinnate.*

4. SOLANUM *tuberosum.* Stem herbaceous. Folioles very entire. Peduncles subdivided. *L. sp.* 265.
Lycopersicon tuberosum. *Mill. Ph. dict. n.* 7.
S. tuberosum esculentum. *Bauh. Casp. prodr.* 89. *Dill. ap. Raii syn.* 265. Cultivated about London, but much more so in Wales and Ireland.—*Vaill. paris.* 188. *Boerh.* ii. 67.
Papas americanum. *Bauh. J.* iii. 621.
Battata virginiana, sive virginianorum, et Pappus. *Ger. by Johns.* 927.
Pappas, seu Battatas virginianorum. *Park. parad. t.* 517. *f.* 3.
SOLANUM tuberosum. *Berg.* 132. *Bryant* 15. *Geoffr. suite* iii. 92. *Linn. amoen.* v. 67. *Pearson, R.* i. 57. *Schoepf* 26.
Battata virginiana. *Dale* 171.
Pyra terrae. *Spielm.* 34.
Potatoe. *Blane* 60. *Blizard, account from in med. rev.* i. 331. *Cavander, account from in phys. journ.* iii. 270. *Fordyce W. fev.* 206. *Nisbet, account from in med. rev.* vi. 414.

5. SOLANUM *Lycopersicon.* Stem herbaceous. Leaves pinnate and bipinnate; folioles incise. Panicles dichotomous, leafless. Fruit glabrous. *Obs.* 6483. In Mr. S. Shore's garden.—*Jacq.*

ap. L. a Murr. 224. *L. sp.* 265. *Hort. kew.* i. 249.

Lycopersicon subhirsutum, foliis varie incisis interrupte et abrupte pennatis, calicibus septempartitis. *Browne* 175.

S. pomiferum fructu rotundo striato molli. *Raii hist.* 675.

Pomum amoris. *Rumph.* v. 416. *t.* 154. *f.* 1.

Poma amoris fructu luteo. *Besl. aut. ord.* 1. *fol.* 1. *t. f.* 1.

Poma amoris fructu rubro. *Besl. aut. ord.* 1. *fol.* 2. *t.*

Poma amoris. *Cam. epit.* 821.

Lycopersicon Galeni. *Boerh.* ii. 69.

Aurea mala. *Dalech.* 628. *Dod.* 455, *repr. in Ger. by Johns.* 346; *Lob. obs.* 140; *ic.* i. 270, *& cop. in*

Pomum amoris majus. *Park. theatr.* 353; *parad. t.* 381. *f.* 3.

Mala aurea odore foetido, quibusdam Lycopersicon. *Bauh. J.* iii. 621.

Stem hispid. *Leaves* interruptedly pinnate and bipinnate with an odd foliole. *Panicles* internodial. *Calyx* sexpartite. *Stamina* 8 and 10. *Antherae* subulate, slightly coherent. *Germen* superior, ovate, with several furrows. *Style* sulcate. *Obs.* 6483.

SOLANUM Lycopersicum. *Bryant* 212. *Swartz. obs.* 83.

Poma amoris. *Dale* 171.

Amoris pomum. *Mill. Jos.* 32.

Pomme doree. *Chom.* 789.

6. SOLANUM *peruvianum.* Stem herbaceous. Leaves pinnate, tomentose; folioles incise. Racemi bi-

partite, leafy. Berries subpilose. *L. sp.* 265. *Jacq. coll.* ii. 284; *rar.* ii. *t.* 327.

SOLANUM peruvianum. *Lour.* i. 162.

3. *Stem sometimes prickly, sometimes without prickles.*

7. SOLANUM *oviferum.* Stem herbaceous, with and without prickles. Leaves ovate, repando-sinuate, tomentose. Peduncles internodial, pendant, thickening. Calyces with and without prickles. *Obs.* 6549. In Mr. Shore's garden.—*Salisb. R. allert.* 134.

S. Melongena. *L. a Murr.* 224; *sp.* 266. *Hort. kew.* i. 250. *Lour.* i. 161.

S. pomiferum fructu oblongo. *Raii hist.* 673.

S. pomiferum quartum, sive fructu oblongo. *Sloane cat.* 108.

Mala insana syriaca. *Park. theatr.* 353, *cop. from*

Mala insana. *Dod. ed.* ii. 458; *ed.* i. 455, *which repr. in Ger. by Johns.* 345. *Trag.* 894. *Fuchs.* 518. *c.* 203, *cop. in*

S. pomiferum fructu rotundo. *Bauh. J.* iii. 618.

MELONGENA. Berg. 138. *Geoffr. suite* i. 17.

Mala insana. *Dale* 171.

S. Melongena. *Bryant* 213.

α *album.* Berries white. *Obs.* 6549. In a garden.

Melongena ovata with white fruit. *Mill. Ph. dict. n.* 1.

Melongena fructu oblongo albo. *Boerh.* ii. 70.

Stem prickly; prickles few, slightly hooked, small. *Leaves* without prickles, the young ones hoary, the older slightly hoary with radiate tomentum. *Peduncles* prickly, tomentose. *Calyces* prickly, with softish straight prickles. *Corolla* purple. *Stamina*

7, connivent. *Antherae* opening at the end. *Berry* white, with 3 cells, *Obs.* 6549.

EGG PLANT. Hawkesw. voy. iv. 341.

β *violaceum.* Berries purplish blue. *From*

Melongena fructu oblongo violaceo. *Boerh.* ii. 70, &

FOKKE FOKKES. Thunb. trav. ii. 293.

Mayenne. *Chom.* 790.

8. SOLANUM *insanum.* Stem herbaceous, with and without prickles. Leaves ovate, tomentose. Peduncles pendant, thickening. Calyces aculeate. *From L. & Swartz obs.* 83. Peduncles terminal.

Nila-barudena. *Rheede* x. 147. *t.* 74. Calyx represented as long as the corolla. Stem and the costa of the leaves underneath aculeate. Fruit oval.

Melantzana nigra. *Dalech. app.* 23, *cop. in*

Solanum pomiferum fructu spinoso. *Bauh. J.* iii. 619,

S. pomiferum, magno fructu ex albo et atropurpureo nitente, folio et calyce spinoso. *Pluk. alm.* 350; *phyt. t.* 226. *f.* 3, &

S. pomiferum fructu nigro spinoso. *Hist. ox. s.* 13. *t.* 2. *row* 1. *f.* 2.

Solani species, Fockii Fockii dicta. *Bont.* 123. *t.* Calyx as long as the corolla.

Trongum hortense. *Rumph.* v. 238. *t.* 85. Peduncles lateral and terminal.

SOLANUM hirsutum et spinosum, fructu maximo, calice majori spinoso. *Browne* 173.

9. SOLANUM *sanctum.* Stem aculeate, fruticose.

Aculei tomentose. Leaves tomentose, obliquely ovate, repandose. *L. sp.* 269.

S. aethiopicum maxime tomentosum caule solummodo non foliis aculeatum. *Pluk. alm.* 351; *phyt. t.* 316. *f.* 2.

SOLANUM sanctum. *Bryant* 214.

10. SOLANUM *bahamense*. Stem aculeate, fruticose. Leaves lanceolate, repandose, obtuse, reflex at the margin. Racemi simple. *L. sp.* 270.

S. bahamense spinosum, petalis angustis reflexis. *Dill. hort.* 263. *t.* 271. *f.* 250.

S. fruticosum bacciferum spinosum, flore caeruleo. *Sloane cat.* 108.

SOLANUM erectum, caule tereti aculeatissimo, foliis oblongis ad basin inaequaliter porrectis. *Browne* 174.

Canker-berry. *Graing.* 52.

166. CAPSICUM.

Corolla inferior, rotate. *Antherae* connivent. *Berry* juiceless, with 2 cells. *Obs.* 6485. *L.*

1. CAPSICUM *annuum*. Stem herbaceous. Peduncles solitary. *L. sp.* 270. *Hort. kew.* i. 253. *Lour.* i. 157.

Piper indicum. *Cam. epit.* 347. *Besl. hort. aut. ord.* 1. *fol.* 6 *to* 13.

Siliquastri triplex varietas. *Cam. epit.* 348.

Vallia-capo-molago. *Rheede* ix. 65. *t.* 35.

Chilli, Piper siliquosum mexicanum. *Hern.* 135.

α *longum*. Capsules long, pendent. *From Mill. Ph. Hort. kew.* i. 253 α, *Woodv.* 391. *t.* 144.

C. annuum. *Mill. Ph. dict. n.* 1.
C. siliquis longis propendentibus. *Boerh.* ii. 68.
Piper indicum vulgatissimum. *Raii hist.* 676.
Siliquastrum majus et minus. *Fuchs.* 693. *c.* 281, a part *cop.* in the lower part of
Siliquastrum. *Trag.* 928, *which repr. in*
Piperitis. *Cord. fol.* 88. *p.* 1.
Siliquastrum oblongius. *Fuchs.* 693. *c.* 281, *cop. in*
C. recurvis siliquis. *Dod.* 704,
C. oblongius. *Dalech.* 632, *&*
Piper calecuticum, sive C. oblongius. *Bauh. J.* ii. 943, *&* the fruit *cop.* in the upper part of
Siliquastrum. *Trag.* 928, *which repr. in*
Piperitis. *Cord. fol.* 88. *p.* 1.
C. majus et minus. *Dalech.* 632.
C. oblongum minus recurvis siliquis. *Park. theatr.* 358. No fig.—*Sloane cat.* 113.
Capsici siliquae variae. *Ger. by Johns.* 365. *f.* 9. 10, *cop. in*
Capsici species. *Park. theatr.* 357. *f.* 5. 6.
C. oblongioribus siliquis. *Dod.* 704, *which repr. in ed.* ii. 716,
C. Piper indicum. *Lob. obs.* 172.
C. Actuarii. *Lob. ic.* i. 316,
Capsicum. *Monard. ap. Clus. exot.* 340*,
Piper americanum vulgatius. *Clus. cur. post.* 54, *&*
C. longioribus siliquis. *Ger. by Johns.* 364, *& cop. in*
C. longum. *Park. theatr.* 356.
C. majus vulgatius oblongis siliquis. *Park. theatr.* 356.
CAPSICUM annuum. The fruit. *Pharm. edin.* —*Bryant* 183. *Lew. disp. by Dunc.* 173. *Murr.*

J. i. 200. *Pearson, R.* i. 93; ii. 172. *Schoepf* 27. *Wright in med. journ.* viii. 234.
Capsicum. *Dale* 172. *Mill. Jos.* 109. *Vog.* 265.
Piper indicum. Guinea Pepper. The fruit. *Pharm. lond.*—*Berg.* 142. *Geoffr. suite* ii. 1. *Lew.* ii. 227. *Linn.* 75. *Rutty* 394.
Piper indicum, sive hispanicum. *Murr.* i. 475.
Piper indicum vulgatissimum. *Chom.* 143.

2. CAPSICUM *grossum.* Stem suffrutescent. Capsules thickening upwards, variously shaped. *L. mant.* 47. *Hort. kew.* i. 254.
C. tetragonum. *Mill. Ph. dict. n.* 3.
Piper indicum, bifurcata siliqua. *Besl. hort. aut. ord.* 1. *fol.* 8. *f.* 2.
CAPSICUM grossum. *Thunb. jap.* 93.

3. CAPSICUM *baccatum.* Stem fruticose, smooth. Peduncles in pairs. *L. mant.* 47. *Hort. kew.* i. 253. *Lour.* i. 157.
C. frutescens β *L. sp.* 271.
C. minimum. *Mill. Ph. dict. n.* 10.
C. fructu minimo conico rubro. *Browne* 176.
C. minus, fructu parvo pyramidali erecto. *Sloane cat.* 112; *hist.* i. 240. *t.* 146. *f.* 2.
C. rubrum minimum. *Rumph.* v. 252. *t.* 88. *f.* 2, but peduncles solitary.
C. minimis siliquis. *Dod.* 705, *repr. in Ger. by Johns.* 364,
C. brevioribus siliquis. *Lob. obs.* 173,
C. Piper indicum, brevioribus siliquis. *Lob. ic.* i. 317,
C. brasilianum. *Monard. ap. Clus. exot.* 340*, &
Piper brasilianum. *Clus. cur. post.* 55, & *cop. in*

Piper siliqua parva brasilianum. *Bauh. J.* ii. 944.
CAPSICUM baccatum. *Murr.* i. 477. *Pearson, R.* i. 93. *Wright in med. journ.* viii. 234.
Capsicum. *Blane* 461. *Chisholm* 81. *Clark, James in med. facts* vii. 293. *Collins in med. commun.* ii. 363. *Cull.* ii. 210. *Fordyce G. fev.* iv. 131. *Lempriere* ii. 162. *Pearson, R. account from in med. rev.* ii. 442. *Thunb. trav.* ii. 268. *Winterbottom, T. account from in chir. rev.* x. 450. *Wright in ann. med.* ii. 367.
Piper cayense. *Adair in med. comment.* ix. 208. *Headly in phys. journ.* v. 425.
Cayenne Pepper. *Gerard in med. soc.* iv. 359. *Jackson Rob. fev.* 290. *Lempriere* ii. 192. *Lew.* ii. 228. 494. *Maclean* 169 143, *and account from in ann. med.* ii. 202. *Stephen in med. comment. dec. II.* ii. 377. *Stewart account from in med. commun.* ii. 372; *med. comment. dec. II.* ii. 377; *and by Aikin in Lew.* ii. 494. *Thomas, account from in med. rev.* viii. 103. *Underw.* ii. 50. *Wright in med. facts* vii. 11; *and ann. med.* ii. 372.
Cayan Pepper. *Darw.* ii. 744.
Chili. *Turn. trav.* 11.
Chilly. *Percival, Rob. ceyl.* 323.
Red Pepper. *Winterbottom, account from in chir. rev.* x. 464.
Small red Pepper. *Stephen in med. comment. dec. II.* ii. 377. *Stewart, account from in med. commun.* ii. 372; *med. comment. dec. II.* ii. 377; *& by Aikin in Lew.* ii. 494.
Green Pepper. *Graing.* 36. 63.

4. CAPSICUM *frutescens.* Stem fruticose, roughish.

Peduncles solitary, *L. a Murr.* 227; *sp.* 271 α. *Hort. kew.* i. 254. *Lour.* i. 158.

CAPSICUM frutescens. *Bryant* 185. *Wright in med. journ.* viii. 234.

Bell Pepper. *Panton in Dawson rheum. append.* 56.

Cayenne Pepper. *Lew. disp. by Dunc.* 174.

α *majus.* Capsule red. *Obs.* 8342. Specimen gathered by Dr. Wright in Jamaica.

C. maximo cordiformi biloculari rubro. *Browne* 176.

C. majus rubrum. *Rumph.* v. 247. *t.* 88. *f.* 4.

β *minus.* Capsules red, smaller than those of α. *From*

C. minus rubrum. *Rumph.* v. 248. *t.* 88. *f.* 1.

γ *conoides.* Capsules red, conic. *From*

C. conoide. *Mill. Ph. dict. n.* 8, seeds from Antigua.

HEN PEPPER. Wright in med. journ. viii. 234.

δ *flavum.* Capsules yellow. *From*

C. minus flavum. *Rumph.* v. 248. *t.* 88. *f.* 3.

CAPSICUM fructu cordiformi minori luteo. *Browne* 176.

167. STYRCHNOS.

Calyx inferior, quinquefid. *Corolla* infundibuliform; limb quinquepartite. *Berry* unilocular, with a hard rind. *Seeds* 1 to 5. *Obs.* 8476, and the account of the fruit from *Roxb.* & *L.*

1. STRYCHNOS *ovalifolia.* Stem arboreous. Leaves oval. *Obs.* 8476. Specimen from Dr. Wright, probably from India.

S. Nux vomica. *L. sp.* 271. *Hort. kew.* i. 254. *Roxb. corom.* i. *t.* 4. *Lour.* i. 154. *Woodv.* iv. 29. *t.* 223, from a specimen in Sir Jos. Banks's herbarium.

Strychnus foliis quinquenerviis. *Wachend.* 32, from Caniram. *Rheede* i. 67. *t.* 37. *Raii hist.* 1661.

Solanum arboreum indicum maximum, foliis oenopliae sive napecae majoribus, fructu rotundo duro rubro semine orbiculari compresso maximis, nuces vomicas et lignum colubrinum ferens. *Breyn. prodr.* 97.

Nux vomica major et officinarum. *Herm. prodr.* 357.

Nuces vomicae. *Ger. by Johns.* 1546, *cop. in*

Nux vomica. *Park. theatr.* 1601. The seeds. *Raii hist.* 1814.

Nux vomica vulgo officinarum compressa hirsuta. *Bauh. J.* i. 339. The seeds.

Leaves oval, and elliptico-oval, trinervose, with 2 smaller ribs near the margin mostly uniting with the costa below the insertion of the larger ribs. *Calyx* pubescent; segments triangular. *Corolla* many times longer than the calyx. *Stamina* 5, inserted into the corolla just below the commissures of the limb. *Filaments* shorter than the antherae. *Antherae* oblong. *Pistil* nearly as long as the corolla. *Germen* ovate. *Style* filiform. *Stigma* capitate, emarginate. *Obs.* 8476.

NUX VOMICA. *Pharm. suec.—Alst.* i. 28. *Berg.* 144. *Dale* 327. *Geoffr.* ii. 448. *Herm.* 336. *Hufeland, account from in ann. med.* i. 50; iv. 265. *Lew.* ii. 150; *disp. by Rother.* 205; *by Dunc.* 348. *Linn.* 76. *Mill. Jos.* 316. *Murr.* i. 477. *Ploucq. bibl.* i. 370. *Ranöe in act. haun.* i. 460. *Vog.* 273.

S. Nux vomica. *Murr. J.* i. 137. *Ploucq. bibl.* i. 354. 432. 644.

Nux vomica, the larger sort. *Neum.* ii. 100.

Nuces vomicae. *Spielm.* 232.

2. STRYCHNOS *colubrina.* Stem fruticose. Leaves ovate, acute. *From Breyn. and Rheede.*

Naga Musadie. *Roxb. corom.* i 10?

Solanum arborescens indicum foliis napecae minoribus, fructu rotundo duro et semine orbiculari compresso minoribus. *Breyn. Jac. prodr.* ii. 98.

Lignum colubrinum. *Breyn. J. ic.* 19. *t.* 5. *f.* 2. *Rumph.* ii. 121. *t.* 38. The prickles on the fruit not noticed in the description.

Strychnus foliis trinerviis ovato-lanceolatis pinnatis. *Wachend.* 32, probably from

Scheru-katu-valli-caniram. *Rheede* vii. 9. *t.* 5.

Nux vomica minor moluccana. *Herm. prodr.* 357. (not repeated in parad. or hort.)

Fructus orbicularis peregrinus, granis nucis vomicae similibus. *Bauh. J.* i. 341. Fruit.

LIGNUM COLUBRINUM. Alst. ii. 37. *Berg.* 147. *Cartheus.* ii. 346. *Dale* 327. *Geoffr.* ii. 456. *Herm.* 234. *Lew.* ii. 152. *Mill. Jos.* 146. *Murr.* i. 485. *Spielm.* 210. *Vog.* 282.

Lignum colubrinum vulgare. *Linn.* 76.

NUCIS VOMICAE species tertia. *Geoffr.* ii. 457.

Nux vomica, the smaller sort. *Neum.* ii. 101.

3. STRYCHNOS *cirrhosa.* Stem herbaceous. *From Rheede*

S. colubrina. *L. sp.* 271; *fil. suppl.* 149. *Berg. mat. med. n.* 90.

S. foliis ovatis acutis, cirrhis simplicibus. *L. mat. med. n.* 78, &
Strychnus foliis trinerviis ovatis binatis. *Wachend.* 32, from
MODIRA-CANIRAM. *Rheede* viii. 47. *t.* 24.

4. STRYCHNOS *monosperma.* Berry with one seed. *From*
STRYCHNOS potatorum. *L. fil. suppl.* 148, & *Roxb.* i. 10. *t.* 5.

168. IGNATIA.

Calyx quinquedentate. *Corolla* infundibuliform, very long. *Berry* unilocular, polyspermous. *Seeds* angular. *From L. a Willd. L. fil. and Lour.*

1. IGNATIA *amara.* *L. fil. suppl.* 149.
Ignatiana philippinica. *Lour.* i. 155.
Strychnos Ignatii. *Berg. mat. med. n.* 89.
Nux Pepita. *Sloan in phil. trans. abr. by Lowth.* ii. 648. *t.* 8. *f.* 163, *at p.* 662.
Catolongay. *Camelli in phil. trans. abr. by Lowth.* ii. 649. *t.* 8. *f.* 164, *at p.* 662.
FABA Ignatii. *Pharm. suec.—Linn.* 77.
Faba Sancti Ignatii. *Alst.* ii. 38. *Cull.* ii. 76. *Dale* 328. *Berg.* 146. *Joannes in phil. trans. abr. by Hutt.* iv. 356. *Lind. hot clim.* 308. *Neum.* ii. 102. *Vog.* 168.
Fabae Sancti Ignatii. *Spielm.* 214.
Faba febrifuga. *Geoffr.* ii. 459.
Faba indica. *Lew.* ii. 153.
Nux Pepita. *Phil. trans. abr. by Lowth.* ii. 648.

Igasur. *Camelli in phil. trans. abr. by Lowth.* ii. 649; *& by Hutt.* iv. 356.

169. CESTRUM.

Corolla tubuloso-infundibuliform. *Calyx* inferior, with 5 teeth. *Stamina* shorter than the corolla. *Germen* and *Berry* with 2 cells. *Obs.* 5439, the flower; and the account of the fruit *from Juss.* 126 *& Lherit. stirp.* 74. *L.*

1. *Filaments without a tooth at the base.*

1. CESTRUM *vespertinum.* Leaves lanceolato-elliptic. Corolla glabrous. Racemi axillary. *Obs.* 8381. Specimen gathered by Dr. Wright in Jamaica.—*L. mant.* 206. *Swartz. obs.* 85. *Lherit. stirp.* i. 72. *Hort. kew.* i. 255.

Jasminum laurinis foliis, flore pallide luteo, fructu atro-caeruleo polypyreno venenato. *Sloane cat.* 169; *hist.* ii. 96. *t.* 204. *f.* 2.

(Ixora alternifolia. *Jacq. amer.* 16. *t.* 177. *f.* 8, flowers and fruit; 8*vo*, 19, has a corolla with ensiform distinct segments, and the tube is described as being twice as long as the limb.

Jasminum aliud arborescens, foliis solani minus. *Plum. cat.* 17; *a Burm.* 150. *t.* 157. *f.* 1, is Ixora alternifolia of Jacq.

Nandi-ervatam minor. *Rheede* ii. 107. *t.* 55 is probably a Nerium.)

Racemi corymbose, nearly sessile, twice and thrice as long as the petioles. *Peduncles* shorter than the petioles, tomentose. *Pedicles* mostly shorter than the calyx. *Corolla* yellowish, semitransparent; tube

tubiform; limb reflex, 5 times shorter than the tube; segments ovate. *Filaments* without teeth, scarcely longer than the antherae. *Obs* 8381.—*Leaves* not ill scented. *Obs.* 6825. Specimen gathered in the Paris garden.
CESTRUM. Browne 173.

2. CESTRUM *auriculatum.* Leaves elliptic. Corolla pubescent. Peduncles terminal and axillary. *Obs.* 6826. Specimen from Mr. Hunter's nursery.—*Hort. kew.* i. 255.
C. foetidum. *Salisb. R. allert.* 111.
Very similar to *C. vespertinum. Stipulae* none. *Peduncles* about as long as the petioles; the lateral ones with 2 flowers, the lowermost flower sessile; the terminal peduncle paniculate with 4 flowers, the uppermost flower but one sessile. *Corolla* pubescent on the outside; tube tubiform; limb erect. *Filaments* without a tooth. *Obs.* 6826.
CESTRUM auriculatum. *Lherit. stirp.* iv. 71. *t.* 35.

170. LYCIUM.

Corolla tubular, and hypocrateriform; throat closed by threads. *Berry* of 2 cells, with many seeds. *Obs.* 8185. *L.*

1. LYCIUM *barbarum.* Leaves lanceolate and oblong. Branches angular. Tube of the corolla once and a half as long as the calyx. *Obs.* 2879. In the garden at Areley-house, Lower Areley, Worcestershire.—*Hort. kew.* i. 257.
α *vulgare.* Style as long as the stamina. *Hort. kew.* α.

L. barbarum. *L. sp.* 277; *mant.* 341. *Sibth. prodr. n.* 541. *Mill. Ph. dict. n.* 4, but he describes the flowers as small and white.

L. foliis oblongo-lanceolatis sine ordine, ramorum spinis rarioribus. *Trew select.* 33. *t.* 68, but the corolla deep blue.

Jasminoides aculeatum, polygoni folio, floribus parvis albidis. *Shaw trav. ed.* ii. 464. *n.* 145. *t. at p.* 465. *f.* 145, but he describes the branches as tomentose.

Rhamnus secundus monspeliensium. *Lob. adv.* 438, *cop. in Dalech.* 140, *repr. in.*

Rhamnus secundus Dioscoridis monspeliensium. *Lob. ic.* ii. 181, *& cop. in Park. theatr.* 1006.

(Rhamnus peregrinus, rosmarini folio, candidior. *Pluk. alm.* 317; *mant.* 160; *phyt. t.* 322. *f.* 2, has distichous leaves.)

Calyx quadridentate and quinquedentate, sometimes cloven on both sides and on one side so as to appear bilabiate. *Corolla* hypocrateriform; tube nearly twice as long as the calyx; limb purple, about the throat whitish with blackish purple lines. *Pistil* just longer than the stamina. *Obs.* 2879.

β *chinense.* Style longer than the stamina. *Hort. kew.* β

L. elongatum. *Salisb. R. allert.* 136.

Kooki. *Kaempf. amoen.* 777.

LYCIUM barbarum. *Lour.* i. 165. *Thunb. jap.* 94.

2. LYCIUM *obliquifolium.* Leaves oblique. Branches flexuose, terete. Tube of the corolla four times as long as the calyx. *From L.* and the account of the corolla from *Michelis figure.*

L. *europaeum*. *L. sp. ed.* i. 192; *mant.* 47. *Sibth. prodr. n.* 542. *Hort. kew.* i. 257. *Gouan hort.* 111. About Montpelier; *monsp.* 34. *Asso n.* 198.

L. salicifolium. *Mill. Ph. dict. n.* 3.

L. foliis cuneiformibus. *Royen* 436.

Jasminoides aculeatum, salicis folio, flore parvo ex albo-purpurascente. *Mich.* 224. *t.* 105. *f.* 1.

Rhamnus spinis oblongis, cortice albo monspeliensium. *Boerh.* ii. 212.

Rhamnus I. *Clus. hisp.* 67, *repr. in hist.* i. 109, *Dod.* 742, *&*

Rhamnus I Clusii flore albo. *Ger. by Johns.* 1334, *cop. in*

Rhamnus I Clusii. *Dalech.* 141, *and a branch cop. in*

Rhamnus cortice albo monspeliensis. *Bauh. J.* i. *b.* 31, with the addition of a branch without fructifications.—*Magn. hort.* 172. *Raii europ.* 218.

Rhamnus spinis oblongis, flore candicante. *Raii hist.* 1592. About Montpelier and Florence.

(Rhamnus secundus monspeliensium. *Lob. adv.* 438, *cop. in Dalech.* 140, *repr. in*

Rhamnus secundus Dioscoridis monspeliensium. *Lob. ic.* ii. 181, *and cop. in Park. theatr.* 1006, has infundibuliform corollae whose breadth is equal to their length.)

RHAMNUS cortice albo monspeliensis. *Magn. monsp.* 221.

171. OPHIOXYLUM.

Corolla inferior, tubiform, quinquefid at the end. *Calyx* pentaphyllous. *Nectarium* of the male flowers in the mouth of the tube of the corolla.

Stamina of the male flowers 2. *Berry* bilocular, didymous. *Seeds* solitary. *Obs.* 7866. *L. from authors.*

Flowers hermaphrodite and male.

1. OPHIOXYLUM *serpentinum.* *L. sp.* 1478; *a Murr.* 911. *Hort. kew.* iii. 433. *Thunb. trav.* iv. 325.

Ligustrum foliis ad singula internodia ternis. *Burm. J. zeyl.* 141. *t.* 64, in fruit.

Radix mustelae. *Rumph.* vii. 29. *t.* 16. In flower.

Tsjovanna-Amel-Podi. *Rheede* vi. 81. *t.* 47.

Leaves elliptic, glabrous, entire at the margin. *Peduncles* bifid at the end. *Flowers* aggregate. *Calyx*, phylla subulato-ovate, incumbent. *Corolla* reddish crimson with a mixture of white; segments oblong, with a white beard at the base on the inside. *Stamina* inserted into the corolla about the middle. *Filaments* very short. *Germen* oval, surrounded by the nectarium. *Nectarium* fleshy, green, loose from the germen. *Style* filiform. *Stigma* capitate, whitish. *Obs.* 7866. In Mr. Hunter's nursery. Aug.

LIGNUM SERPENTINUM. *Linn.* 267; *amoen.* ii. 111.

Lignum serpentum. *Murr.* i. 383.

172. CHIRONIA.

Corolla inferior, infundibuliform. *Pistil* declinate. *Stigma* obtuse. *Seedvessel* unilocular, apparently bilocular. *Obs.* 6498. 3992. *L.*

1. *Antherae spiral after flowering. Stem herbaceous.*

1. CHIRONIA *angularis*. Angles of the stem acute. Leaves ovate, amplexicaul. *L. sp.* 272. *Michaux* i. 146.

CHIRONIA. Coxe 369. *Schoepf* 27.

173. ERETIA.

Corolla campanulate, quinquefid. *Stigmata* 2. *Drupae* bilocular. *Nuts* 2 in each cell, bilocular. *Seeds* solitary. *From Browne, Swartz, & L.*

1. ERETIA *tinifolia*. Leaves oblongo-oval, glabrous. Flowers paniculate. *Obs.* 8333. Specimen gathered by Dr. Wright in Jamaica.—*L. sp.* 274. *Hort. kew.* i. 259.

Ehretia. *Trew select.* 4. *t.* 25. *Browne* 168. *t.* 16. *f.* 1.

Ceraso affinis, arbor baccifera racemosa, flore albo pentapetalo, fructu flavo monopyreno eduli dulci. *Sloane cat.* 169; *hist.* ii. 94. *t.* 203. *f.* 1.

EHRETIA. Browne 168.

174. BEURERIA.

Corolla infundibuliform, limb quinquepartite. *Stigmata* 2. *Drupa* with 4 nuts, separating spontaneously into 4 parts, *Nuts* with 2 cells. *Seed* solitary. *Obs.* 2333.—The account of the frui from

Bourreria. *Browne* 168.

1. BEUREREIA *succulenta*. Drupe succulent. *From*
Beurreria succulenta. *Jacq. obs.* ii. 2. *t.* 26.
Bourreria. *Browne* 168. *t.* 15. *f.* 2.
Ehretia Beurreria. *L. a Murr.* 230. *Jacq. amer.* 8*vo*, 59.
Ehretia Bourreria. *L. sp.* 275. *Hort. kew.* i. 259.
Ehretia Boureria. *L. mant.* 341.
Cordia Bourreria. *L. amoen.* v. 395.
Jasminum periclymeni folio, flore albo, fructu flavo rotundo tetrapyreno. *Sloane cat.* 169; *hist.* ii. 96. *t.* 204. *f.* 1.
Mespilus americana laurifolia glabra, fructu rubro mucilaginoso. *Commel. hort.* i. 153. *t.* 79.
Pittoniae similis, laureolae foliis, floribus albis, baccis rubris. *Catesb.* ii. *t.* 79.

Branches pubescent. *Leaves* oblongo-elliptic, revolute at the margin, those at the base of a branch scabrous, those above pubescent. *Corymbi* compound, terminal. *Peduncles* & *calyces* pubescent. *Obs.* 2333. Specimen gathered by Broughton in Jamaica.

BEURRERIA succulenta. *Jacq. amer.* 44.

175. CORDIA.

Corolla infundibuliform. *Stigmata* 4 & 2. *Drupa. Nut* quadrilocular. *Obs.* 8477, & *from L.*

1. CORDIA *Myxa*. Calyces with 10 striae. Leaves ovate, glabrous above. Corymbi lateral. *From L. a Murr.* 230; & *sp.* 273; *mant.* 341. *Hort. kew.* i. 258.
C. monoica. *Roxb.* i. 43. *t.* 58 so much resembles a specimen of C. Myxa gathered in the garden

of Fothergill, and J. Bauhine's figure of Myxa silvestris, that I suspect it will prove to be the wild plant.

Vidi-maram. *Rheede* iv. 77. *t.* 37. *Raii hist.* 1563.

Myxos arbor, sive Sebestena nostra. *Dalech.* 359. Leaves narrower than in my specimen.

Sebestenae, Myxa, sive Myxara. *Ger. by Johns.* 1499.

Prunus Sebestena. *Pluk. alm.* 306; *phyt. t.* 217. *t.* 2.

Prunus Sebestena, longiori folio, maderaspatensis. *Pluk. alm.* 306; *phyt. t.* 217. *f.* 3. Segments of the corolla reflex

Sebestena officinalis. *Dill. hort. t.* 255.

Sebesten domestica. *Commel. hort.* 139. *t.* 72. *Alpin. aegypt. fol.* 12. *p.* 2. Leaves entire at the margin.

Sebesten sylvestris. *Alpin. aegypt. fol.* 13. *p.* 1.

Mixa domestica. *Bauh. J.* i. *a.* 199.

Myxa silvestris. *Bauh. J.* i. *a.* 199.

Sebesten. *Park. theatr.* 252.

Myxa, sive Sebesten. *Raii hist.* 1555.

SEBESTENA. Alst. ii. 316. *Lew. disp. by Rother.* 240.

Sebesten. *Dale* 297. *Geoffr.* ii. 311. *Herm.* 397. *Linn.* 77. *Mill. Jos.* 405. *Murr.* ii. 105. *Rutty* 476. *Spielm.* 465. *Vog.* 273.

C. Myxa. *Bryant* 246.

Pruna Sebestena. *Cartheus.* ii. 187.

Sebestes. *Chom.* 78. 113.

2. CORDIA *Sebestena.* Leaves oblongo-ovate, repandose, scabrous. *L. sp.* 274. *Hort. kew.* i. 259. *Jacq. amer.* 42; *ed.* 8*vo*, 54.

Cordia. *Browne* 202.

Novella nigra. *Rumph.* ii. 226. *t.* 75.

Wansey. *Bruce* v. 54. *t.* Limb of the corolla figured and described as entire.

Caryophyllus spurius inodorus, folio subrotundo scabro, flore racemoso hexapetaloide coccineo speciosissimo. *Sloane cat.* 136; *hist.* ii. 20. *t.* 64. *Catesb.* ii. *t.* 91.

C. nucis juglandis folio, flore purpureo. *Plum. a Burm.* 95. *t.* 105.

Sebestena scabra, flore miniato crispo. *Dill. hort.* 341. *t.* 255. *f.* 331.

Leaves sericeo-hirsute, dull, ovali-ovate. *Calyces* resembling cloves. *Corolla* cloven. *Style* bifid at the end. *Obs.* 8343. Specimen gathered by Dr. Wright in Jamaica.

CORDIA Sebestena. *Bryant* 247.

Sebesten. *Berg.* 148.

176. VARRONIA.

Calyx inferior, quinquefid. *Corolla* tubular. *Stigmata* 4. *Drupe.* *Nut* quadrilocular and unilocular. *Obs.* 5582. *L.*

1. VARRONIA *alba.* Flowers cymose. Leaves cordate. *From L. sp.* 276.

Mespilus americana, alni vel coryli foliis, fructu mucilaginoso albo. *Commel. hort.* i. 155. *t.* 80. No fructifications.

VARRONIA alba. *Jacq. amer.* 14; *ed.* 8vo, 53.

2. VARRONIA *integerrima.* Leaves entire at the margin. *From*

VARRONIA sinensis. *Lour.* i. 171.

177. CHRYSOPHYLLUM.

Calyx pentaphyllous. *Corolla* campanulate, quinquefid. *Style* none. *Stigma* with 10 crenae. *Berry* decemlocular; with many and 1 seed; cells monospermous. *Obs.* 5580. *L.*

1. CHRYSOPHYLLUM *Cainito.* Leaves ovali-elliptic, silky underneath. *Obs.* 5580. Specimen gathered by Broughton in Jamaica.—*L. sp.* 278. *Hort. kew.* i. 260.

α *sphaeroideum.* Berry spheroidal. *From*
CHRYSOPHYLLUM Cainito. *Jacq. amer.* 51. *t.* 37. *f.* 1; 8*vo*, 65.

β *subovatum.* Berry subovate. *From*
C. Cainito jamaicense. *Jacq. amer.* 52; 8*vo*, 66.
C. fructu majori globoso, foliis subtus ferrugineis. *Browne* 171. *t.* 14. *f.* 2. Berry with four and five seeds.
Anona foliis subtus ferrugineis, fructu rotundo majore laevi purpureo, semine nigro partim rugoso partim glabro. *Sloane cat.* 206, cultivated in Jamaica in fields and gardens;—*hist.* ii. 170. *t.* 229.

Leaves elliptic, acute, ferruginous underneath, 2 inches long, cracked at the margin so as to appear crenate. *Calyx* pentaphyllous. *Germen* multilocular. *Obs.* 8502. Specimen gathered by Dr. Wright in Jamaica.—*Leaves* elliptico-oval, rufous underneath, 3 to 4 inches long. *Calyx* calathiform. *Corolla* campanulato-infundibuliform, twice as long as the calyx. *Germen* multilocular. *Obs.* 5580.

CHRYSOPHYLLUM Cainito. *Bryant* 188. *Edwards west ind.* i. 200.

γ *caeruleum.* Berry globular. *From*

CHRYSOPHYLLUM Cainito caeruleum. *Jacq. amer.* 52. *t.* 37* Leaves represented as elliptic, acuminate, veined.

δ *monopyrenum.* Berry ovate, monospermous. *From* C. monopyrenum. *Swartz. ind. occid.* 480, who has omitted to mention the number of the cells of the germen, and whether there are any abortive seeds.

C. microphyllum. *Jacq. amer.* 52. *t.* 37. *f.* 2. A branch with leaves.

Leaves elliptic, acute, tomentoso-sericeous and rufous underneath, 1½ to 3 inches long. *Calyx* pentaphyllous; segments roundish, incumbent. *Corolla* campanulato-infundibuliform; tube as long as the calyx; limb quinquepartite; segments oblongo-ovate. *Germen* ovate. *Obs.* 8500. Specimen gathered by Dr. Wright in Jamaica.

CHRYSOPHYLLUM fructu minori glabro, foliis subtus ferrugineis. *Browne* 171.

2. CHRYSOPHYLLUM *argenteum.* Leaves falcato-ovate, tomentose and shining underneath. *Jacq. amer.* 53. *t.* 38. *f.* 1, leaves represented as elliptic, falcate at the end, veinless, and drupe as oval, though described as roundish.—*H. K.* i. 261.

C. Cainito β *L. sp.* 278.

Cainito folio subtus aureo, fructu olivaeformi. *Plum. gen.* 10; *a Burm.* 57. *t.* 69.

CHRYSOPHYLLUM argenteum. *Jacq. amer.* 8vo, 67.

3. CHRYSOPHYLLUM *microcarpum.* Leaves ovate, pubescent underneath. Berries oblong, oblique, with one seed. *From Swartz. ind. occid.* 482.

4. CHRYSOPHYLLUM *glabrum*. Leaves glabrous. *From L. sp.* 278. *Jacq. amer.* 53. *t.* 38. *f.* 2, leaves represented as veinless, elliptic, concave;—8*vo*, 68.
CHRYSOPHYLLUM glabrum. *Bryant* 189.

178. SIDEROXYLUM.

Calyx quinquefid. *Corolla* rotate, quinquepartite. *Nectaria* 5, inserted into the corolla. *Stigma* simple. *Berry* with from 1 to 5 seeds. *From L.*

1. SIDEROXYLUM *lycioides*. Spinose. Leaves deciduous, lanceolate. *L. sp.* 279. *Hort. kew.* i. 262.
SIDEROXYLON lycioides. *Schoepf* 27.

179. BUMELIA.

Calyx quinquepartite. *Corolla* quinquefid; segments with a smaller segment on each side at the base. *Nectaria* 5, at the base of the stamina on the inside of the tube of the corolla. *Drupe* with 1 seed. *From Swartz. ind. occid.* 486. *t.* 8.

1. BUMELIA *nigra*. Leaves terminal, oblongo-lanceolate, glabrous, undulate at the margin. Branches limber; smaller branches rodlike, bearing flowers. *Swartz. ind. occid.* 487.
ACHRAS fructibus minoribus glabris per ramos sparsis, seminibus subrotundis, cicatricula minima ovata. *Browne* 201.

2. BUMELIA *retusa*. Leaves cuneato-ovate, retuse, rigid. Peduncles crowded, axillary. *Swartz. ind. occid.* 490.

ACHRAS fructu minori glabro, foliis ovatis, floribus confertis alaribus. *Browne* 201.

3. BUMELIA *salicifolia*. Peduncles fasciculate, axillary. Leaves lanceolate. Segments of the corolla obtuse. *Obs.* 8334. Specimen gathered by Dr. Wright in Jamaica. The account of the corolla from Browne's fig.—*Swartz. ind. occid.* 491. Trunk and fresh branches lactescent. Flowers whitish.

Achras salicifolia. *L. sp.* 470. *Hort. kew.* i. 478.

Arbor salicis folio lato splendente, floribus parvis pallide luteis pentapetalis e ramulorum lateribus confertim exeuntibus. *Sloane cat.* 170; *hist.* ii. 98. *t.* 206. *f.* 2.

Leaves, costa above sometimes from about the middle to the base with ferrugineous sericeous hairs. *Peduncles* sericeous, ferrugineous. *Calyces* not yet expanded, sericeous, ferrugineous. *Obs.* 8334.

ACHRAS foliis oblongis nitidis utrinque productis, floribus confertis, fasciculis infra frondes sparsis. *Browne* 201. *t.* 17. *f.* 4. No leaves. No part of the plant lactescent. Berries black.

4. BUMELIA *Mastichodendrum*. Peduncles fasciculate. Leaves lanceolate. Segments of the corolla acute. *From*

Sideroxylon Mastichodendrum. *Jacq. coll.* ii. 253, who describes the flowers as wholly yellow, &

CORNUS foliis laurinis, fructu majore luteo. *Catesb.* ii. 75. *t.* 75. Peduncles, flowers, and drupes yellow.

180. RHAMNUS.

Calyx campanulate. *Petals* 5, 4, or none, inserted into the calyx. *Berry* or *Capsule* with from 2 to 5 seeds. *Obs.* 3349. *L.*

In the generality of the species the style is surrounded by an orbicular fleshy nectarium, into the margin of which the stamina are inserted. The calyx of the fruit is entire, the upper half having fallen off.

1. *Spinose. Calyx quadrifid, or trifid. Petals and stamina* 4.

1. RHAMNUS *lycioides*. Leaves linear, entire at the margin. *Obs.* 5611. Specimen gathered by M. Broussonett on Montserrat in Spain.—*L. sp.* 279.
R. III. *Clus. hisp.* 70, *repr. in*
R. forte niger Theophrasti. *Clus. hist.* i. 111,
R. primae speciei tertius. *Lob. ic.* ii. 129,
R. tertius. *Dod.* 743, *& Ger. by Johns.* 1334, *and cop. in Dalech.* 141. *Bauh. J.* i. *b.* 35, *&*
R. niger Theophrasti. *Park. theatr.* 1007. *Raii hist.* 1593.
Lycium. *Dalech.* 151, *cop. in*
Lycium gallicum avenionense. *Park. theatr.* 1010, *and a branch cop. in*
Lycium gallicum. *Bauh. J.* i. *b.* 58. *f.* 1.
Lycium hispanicum. *Lob. ic.* i. 129, *repr. in Ger. by Johns.* 1332, *cop. in Dalech.* 149, *&*
Lycium hispanicum folio oblongo. *Park. theatr.* 1010, no fructifications.
Leaves spatulato-linear, acute. *Calyx of the fruit*

orbicular. *Berries* dry, bilocular. *Arilli*, 1 in each cell. *Obs.* 5611.

Native of Spain.

RHAMNUS niger. *Dale* 315.

2. RHAMNUS *catharticus*. Leaves ovali-elliptic, serrate. Stem erect. Flowers sometimes dioicous. *Obs.* 4881. On the limestone of Nottinghamshire and Derbyshire, but less frequently on the intermediate gritstone. In marle near Worcester, but not in the sand of the northern part of the county.—*L. suec. n.* 202; *sp.* 279. *Woodv.* 312. *t.* 114. *Bot. arrang.* 239. *Fl. dan. t.* 850. *Smith brit.* 261. *Bauh. J.* i. *b.* 55. *Raii hist.* 1625; *syn.* 466. *Tourn. paris.* 355. *Vaill. paris.* 172. *Boerh.* ii. 212. *Dalech.* 146. *Garid.* 400.

Rhamni alia species. *Trag.* 979, *repr. in*

Cervispina. *Cord. fol.* 175. *p.* 1.

Spina infectoria. *Matth.* 158. *Cam. epit.* 82. *Lob. obs.* 597, *repr. in ic.* ii. 181, *&*

Spina infectoria prima. *Clus. hist.* i. 111, (the name and description belong to R. infectorius,) *cop. in*

R. solutivus, seu Spina infectoria vulgaris. *Park. theatr.* 243, *& repr. in*

R. solutivus. *Ger. by Johns.* 1337. *Dod.* 744, *repr. in*

R. solutivus minor. *Ger. by Johns.* 1337.

Rhamni solutivi vulgaris exactior icon cum floribus. *Park. theatr.* 243.

Spines not always to be found when the plant is in flower. *Calyx* of the flower quadrifid; that of the fruit orbicular, obsoletely quadridentate. *Berry* slightly spheroidal; rind purplish black; pulp

green. *Seeds* 4, ovate, convex on the outer side, with an acute angle on the inner side. *Obs.* 4881.

RHAMNUS catharticus. Juice of the berries. *Pharm. edin.—Chom.* 10; *suppl.* 2. *Coste and Willemet, account from in med. comment.* v. 298. *Cull.* ii. 541. *Dale* 322. *Geoffr. suite* ii. 211. *Lew. disp. by Dunc.* 291. *Mill. Jos.* 373. *Murr.* iv. 1; *J.* i. 272; ii. 55. *Pearson, R.* i. 204.

Spina cervina. The berries. *Pharm. lond.—Berg.* 148. *Haslam insan.* 139. *Krock. n.* 356. *Lew.* ii. 378. *Linn.* 77. *Monro* iii. 275. *Quarin animad.* 172. *Rutty* 492. *Spielm.* 640. *Vog.* 263. *Wintringham in Mead mon.* i. 204.

Buckthorn. *Lew. in Neum.* ii. 234.

3. RHAMNUS *infectorius*. Flowers dioicous. Stems procumbent. *From L. mant.* 49. *Asso n.* 198. *Hort. kew.* i. 263.

R. Lycium. *Scop. carn. n.* 260.

R. spinis terminalibus, floribus quadrifidis dioicis, corollarum laciniis longitudine tubi. *Ger. Lud. prov.* 462.

Lycium gallicum. *Bauh. J.* i. *b.* 58. *f.* 2. About Avignon and Carpentras in Provence.—*Magn. monsp.* 172.

R. catharticus minor. *Raii hist.* 1626; *europ.* 219. *Magn. hort.* 172. *Gouan monsp.* 423. *Garid.* 400. 401.

Lycium italicum. *Dalech.* 148, *cop. in Park. theatr.* 1009, & *Bauh. J.* i. *b.* 59.

Spina infectoria pumila I. *Clus.* i. 111. (The fig. is R. catharticus.)

GRANA avenionensia. *Berg.* 151.

4. RHAMNUS *thesans*. Spines terminal. Leaves

ovate, serrate at the margin. Branches divaricate. *L. mant.* 207.

RHAMNUS Thea. *Osbeck trav.* i. 375.

3. *Calyx quinquefid. Petals and stamina* 5.

5. RHAMNUS *Frangula.* Stigma 1. Flowers hermaphrodite. Leaves ovali-elliptic; margin entire, revolute. Seeds 2. Calyces glabrous. *Obs.* 4473. Specimen gathered in a wood at Smethwick near Birmingham.—*Hort. kew.* i. 264. *L. suec. n.* 203; *sp.* 280. *Bot. arrang.* 240. *Smith engl. bot. t.* 250; *brit.* 262. *Venten. tabl.* iv. 127. *t.* 22. *f.* 3. *Gouan hort.* 112. Near Montpelier, where he says there is a variety with minutely serrate leaves.—*Scop. carn. n.* 263. *Host* 120. *Fl. dan. t.* 278. *Asso n.* 201. *Sibth. prodr. n.* 553.

R. inermis, foliis annuis. *L. lapp. n.* 92.

Faulbaum. *Trag.* 981.

Alnus nigra baccifera. *Bauh. J.* i. *a.* 560. *Raii hist.* 1604; *syn.* 465.

Frangula. *Cam. epit.* 978. *Matth.* 1271, *cop. in Dalech.* 200. *Tourn. paris.* 446. *Vaill. paris.* 56. *Boerh.* ii. 231. *Dod.* 772, *repr. in*

Alnus nigra, sive Frangula. *Ger. by Johns.* 1470, *& cop. in*

Alnus nigra. *Dalech.* 97. *Lob. obs.* 594, *repr. in ic.* ii. 175, *f.* 1. 2, the inner *cop. in*

Alnus nigra baccifera, seu Frangula. *Park. theatr.* 240.

Native of Europe.

FRANGULA. Pharm. suec.—Berg. 150. *Dale* 318. *Krock. n.* 350. *Lew.* i. 440. *Linn.* 78. *Murr.* iv. 5. *Spielm.* 613. *Vog.* 294.

R. Frangula. *Coste and Willem. in med. comment.* v. 298.

Alnus nigra. *Mill. Jos.* 24. *Rutty* 16.
Alnus nigra baccifera. *Chom.* 22.

181. ZIZYPHUS.

Calyx campanulate. *Petals* 5 and 4, inserted into the calyx. *Styles* 2, or bifid. *Drupe*. *Nut* bilocular. *Obs.* 5608. *and from L. a Willd.* i. 1102.

Ziziphus. *Juss.* 380. *Boerh.* ii. 245.

1. *Aculeate.* L. a W.

1. ZIZYPHUS *lineatus*. Leaves ovate, obliquely lineate. Aculei solitary, straight. *From Lour.*—*L. a Willd.* i. 1102.
Rhamnus lineatus. *Osb. trav.* i. 353. *t.* 7. *L. sp.* 281; *mant.* 341.
Rhamnus zeylanicus, folio subrotundo glabro, caulibus hirsutis, spinis exiguis ad ramorum et foliorum ortum exasperatus, flosculo spadiceo, baccâ nigra. *Burm. J. zeyl.* 198. *t.* 88. Peduncles lateral and terminal.
Acaciae forte cognatus e Maderaspatan. *Pluk. alm.* 4; *phyt. t.* 122. *f.* 4.
RHAMNUS lineatus. *Lour.* i. 197.

2. ZIZYPHUS *soporifer*. Leaves ribless, lanceolate. Aculei solitary, straight. Flowers solitary. *From*
Rhamnus soporifer. *Lour.* i. 196.
VIDARA littorea. *Rumph.* ii. 119. *t.* 37.

3. ZIZYPHUS *Jujuba*. Style bifid. Aculei mostly solitary, recurvate. Peduncles aggregate. Leaves

trinervose, subrotundo-oval, tomentose underneath. *From L. a Willd.* i. 1104,

Rhamnus Jujuba *L. sp.* 282, *and Lour.* i. 195. *Hort. kew.* i. 267.

Malum indicum. *Rumph.* ii. 117. *t.* 36, leaves represented as acute, but described as obtuse.

Perin-toddali, seu Jujube indica. *Rheede* iv. 85. *t.* 41. *Raii hist.* 1535.

Jujuba aculeata, nervosis foliis infra sericeis flavis. *Burm. J. zeyl.* 131. *t.* 61.

Jujuba, sive Z. zeylanica rotundifolia crenata minor, foliis lanuginosis. *Pluk. alm.* 199; *phyt. t.* 197. *f.* 2.

Jujube-tree. *Roxb. in linn. trans.* vii. 48, *t.* 2. *f.* 7. 8.

Jujuba indica. *Raii hist.* 1535.

Mala indica Acostae. *Dalech.* 1873, *cop. in*

Ber indica fructu jujubino. *Bauh. J.* i. *b.* 44, *&*

Mala indica, lusitanis Ber, et Ber Acostae. *Park. theatr.* 1636. Peduncles corymbose.

JUJUBA indica. *Dale* 306.

Rhamnus Jujuba. *Bryant* 261.

Boa Bidarra. *Cook in Hawkesw.* iv. 349.

4. ZIZYPHUS *vulgaris.* Styles 2. Prickles 2 together, one of which sometimes recurvate. Flowers aggregate, nearly sessile. Leaves oblongo-ovate, serrate; veins hirsutulous underneath. *Obs.* 5607. Specimen without fructifications gathered in the garden of Fothergill.—*Obs.* 5608. Specimen without prickles from Prof. Jos. F. Jacquin.—*L. a Willd.* i. 1105.

Rhamnus Zizyphus. *L. a Murr.* 235; *sp.* 282; *mant.* 342. *Hort. kew.* i. 267. *Gouan hort.* 113. Near Montpelier.—*Lour.* i. 196.

Zizyphus. *Boerh.* ii. 245. *Dod.* 795, *repr. in*
Jujube arabum. *Lob. obs.* 597, *&*
Jujube arabum, sive Ziziphus Dodonaei. *Ger. by Johns.* 1501. *& repr. in*
Zizipha sativa et sylvestris. *Bauh. J.* i. *b.* 40, *&*
Z. sive Jujuba major. *Park. theatr.* 251. *Raii hist.* 1533. Near Tropea in Calabria.
Jujubae. *Trag.* 1023.
Z. punicea. *Dalech.* 356.

Leaves obtuse. *Prickles* 2, at the base of each petiole, distinct. *Obs.* 5607.—*Stamina* inserted into the margin of the nectarium. *Obs.* 5608.

JUJUBA. Alst. ii. 291. *Dale* 306. *Murr.* iv. 7.
Jujubae. *Pharm. austriaco-prov.* 43.—*Berg.* 151. *Cartheus.* ii. 188. *Geoffr.* ii. 307. *Herm.* 396. *Lew.* ii. 19; *disp. by Rother.* 181. *Linn.* 78. *Mill. Jos.* 247. *Rutty* 256. *Spielm.* 91. *Vog.* 272.
Rhamnus Zizyphus. *Bryant* 242.
Jujubes. *Robinson in phil. trans. abr. by Jones* v. *part* ii. 143.

5. ZIZYPHUS *africana.*—Prickles in pairs, straight. Leaves ovate. *L.*—*Mill. Ph. dict. n.* 4, who received the seeds from Syria.
Rhamnus Napeca. *Forsk.* 204.
Rhamnus Spina christi. *L. sp.* 282, from seeds gathered by Hasselquist near Jerusalem.
Rhamnus aculeis geminatis rectis, foliis ovatis. *L. cliff.* 69, from seeds from the Cape of Good Hope. —*Royen* 224, where for foliis rectis read foliis ovatis.
Jujube, sive Z. africana, mucronatis foliis, spina gemella. *Pluk. alm.* 199. *t.* 197. *f.* 3. No fructifications.

Nabca, Paliurus Athenaei credita. *Alpin. aegypt. fol.* 7. 8. *t, cop. in*

Nabca folio rhamni vel jujubae. *Bauh. J.* i. *b.* 39. *f.* 1, *cop. in*

Napeca, Nabca, aut Oenoplia spinosa. *Park. theatr.* 1442.

Oenoplia spinosa. *Bellus ap. Clus. hist.* ii. 313. No fig.—Aculei in pairs.

OENOPLIA. Dale 306.

Rhamnus Nabeca. *Forsk.* xciii.

Nabbok. *Pococke* i. 122; ii. *part* i. 71.

Nebka. *Sonnini* ii. 195.

182. GOUANIA.

Calyx superior, quinquefid. *Petals* 5, inserted into the calyx. *Nectarium* quinquangular. *Stamina* inserted into the margin of the nectarium, alternating with the angles of the nectarium. *Style* trifid, in the abortive flowers simple. *Capsule* with 3 cells, separating into 3 parts; cells monospermous. *From Juss.* 381, *Swartz, and Roxb.* i. 67. *t.* 98.—*L.*

1. GOUANIA *glabriuscula.* Angles of the capsules winged. Leaves ovate, acuminate, obtusely serrate, nearly glabrous. *Obs.* 8682. Specimen gathered by Dr. Wright in Jamaica.

G. glabra. *Jacq. amer.* 264. *t.* 179. *f.* 40; a leaf and fruit; 8*vo* 339.

G. domingensis. *Swartz. obs.* 387. *H. K.* iii. 439. *L. a Murr.* 912; *a Willd.* iv. 999.

Gouana domingensis. *L. sp.* 1663.

Rhamnus sarmentosus, foliis ovatis venosis, capsulis trigonis racemosis. *Browne* 172. *n.* 4, but spoken of in 173, as being his third species.

Paullinia. *L. ups.* 97.

Lupulus sylvestris americana, claviculis donata. *Pluk. alm.* 229; *phyt. t.* 201. *f.* 4.

Coryli sive avellanae folio oblongo et acuminato frutex convolvulaceus capreolatus americanus. *Pluk. alm.* 229; *phyt. t.* 162. *f.* 3.

GOUANA domingensis. *Wright in med. journ.* viii. 257.

183. CEANOTHUS.

Calyx quinquefid. *Petals* 5, obovate, inserted into the calyx. *Berry* tricoccous; cells monospermous. *Obs.* 5616. 5618. *L.*

1. CEANOTHUS *trinervis*. Leaves serrate, trinervose. *Obs.* 5619. Specimen gathered by Dr. Cutler in New England.

C. americanus. *L. sp.* 284. *Hort. kew.* i. 270. *Mill. Ph. dict. n.* 1; *ic. t.* 86.

Ceanothus. *L. ups.* 51. *Gron. virg.* 32.

Celastrus inermis, foliis ovatis serratis trinerviis, racemis ex summis aliis longissimis. *Royen* 435. *Gron. virg. ed.* i. 25.

Euonymus jujubinis foliis, carolinensis, fructu parvo ferè umbellato. *Pluk. alm.* 139. *t.* 28. *f.* 6.

Euonymus novi belgii, corni feminae foliis. *Commel. hort.* i. 167. *t.* 86.

Petals unguiculate; laminae concave, vaulted. *Style* trifid. *Stigmata* erect, pressed to. *Obs.* 5619.

CEANOTHUS. Linn. 78. *Marsh.* 27. *Rush* i. 31. *Schoepf* 27. *Vog.* 218.
C. americanus. *Monro, Don. sold.* ii. 244.
American Tea. *Cutl. in amer. acad.* i. 417.

184. SCOPOLIA.

Calyx quinquefid. *Petals* 5. *Stigma* capitate. *Capsule* baccate, quinquelocular; cells monospermous. *L. a Willd.—Smith.*

Toddalia. *Juss.* 371.

1. SCOPOLIA *aculeata.*—Stem aculeate. *From L. a Willd.* i. 1115. *Smith ic. herb.* ii. *n.* 34. *p.* 3.
Paullinia asiatica. *L. sp.* 524; *a Murr.* 379. *Jacq. obs.* iii. 11. *t.* 62. *f.* 1, a leaf, *cop. from*
Chamaelea trifolia aculeata, floribus spicatis. *Burm. J. zeyl.* 58. *t.* 24. Folioles entire at the margin, obovato-elliptic.
Kaka-Toddali malabarica ex oris Coromandel. *Pluk. alm.* 202. *t.* 95. *f.* 5. (The name engraved on t. 94.)
Frutex baccifer indicus spinosus trifolius, floribus spicatis, fructu plano-rotundo tricocco. *Raii hist.* 1612, *from*
KAKA-TODDALI. Rheede v. 81. *t.* 41. Folioles serrate.

185. CELASTRUS.

Calyx quinquefid. *Petals* 5. *Capsule* with 3 cells, 3 and 2 valves, and 3 angles; cells monospermous, dispermous, and polyspermous. *Obs.* 5614. *L.*

1. CELASTRUS *edulis*. Unarmed. Leaves opposite and alternate, elliptic, serrate. Cymes axillary, dichotomous. *Vahl. symb.* i. 21.
CATHA edulis. *Forsk.* 63.

186. NEUHOFIA.

Calyx quinquedentate; teeth deciduous. *Petals* 5. *Capsule* trilocular, trivalve, polyspermous. *From Lour.*

1. NEUHOFIA *rosmarinifolia*.
CEDRELA Rosmarinus. *Lour.* i. 199.

187. EUONYMUS.

Calyx with 4 and 5 divisions. *Petals* 5 and 4. *Germen* immersed in an orbicular disc. *Stamina* 5 and 4, inserted into the disc. *Capsule* pentacoccous, and tetracoccous. *Seeds* arillate. *Obs.* 3735. *L.*

1. EUONYMUS *europaeus*. Peduncles compressed. Branches smooth. Stigmata subulate. *Obs.* 3736. Specimens gathered near Worcester.—*Hort. kew.* i. 273. *L. suec. n.* 204; *sp.* 287. *Bot. arrang.* 241. *Smith engl. t.* 362; *brit.* 262.
Euonymus. *Cam. epit.* 102. *Dod.* 771, *repr. in*
E. Theophrasti. *Ger. by Johns.* 1468, *& cop. in*
E. vulgaris. *Park. theatr.* 241. *Raii syn.* 468. *Scop. carn. n.* 267.
E. multis, aliis Tetragonia. *Bauh. J.* i. *b.* 201.
Tetragonia. *Dalech.* 272.

Carpinus Theophrasti. *Trag.* 983.
(E. II. *Clus.* i. 57, is E. verrucosus.)
EUONYMUS. Dale 321.
Tetragonia. *Geoffr. suite* iii. 169.

188. HOVENIA.

Calyx quinquepartite. *Petals* 5. *Stigmata* 3. *Capsule* trilocular, trivalve; cells monospermous. *L. a Willd.* i. 1141, *from*

1. HOVENIA *dulcis. Thunb. jap.* 101.
SICKU. Kaempf. amoen. 808. *t.* 809.

189. VIOLA.

Calyx inferior, pentaphyllous. *Corolla* irregular; petals 5, one with a spur behind. *Antherae* with an appendage at the end. *Capsule* with 1 cell, and 3 valves. *Obs.* 224. *L.*

1. *With a scapus.*

1. VIOLA *odorata.* Leaves cordate, and reniformi-cordate, crenate, pubescent. Shoots creeping. *Obs.* 223. On banks under hedges, generally next the south.—*L. suec. n.* 784; *sp.* 1324. *Curt. lond.* i. 63; *mat. med. t.* 13. *Walc. t. Fl. dan. t.* 309. *Woodv.* ii. 225. *t.* 81. *Bot. arrang.* 954. *Asso n.* 881.

α *violacea.* Corolla purplish blue. *Obs.* 223.
V. martia purpurea, flore simplici odoro. *Boerh.* i. 243. *Magn. monsp.* 278. In flower almost all the year.—Does it at Montpelier produce the flowers

with small petals which in England are alone succeeded by fruit?—*Tourn. paris.* 170. *Vaill. paris.* 203.

V. nigra, sive purpurea. *Ger. by Johns.* 850. *Dod.* 156, *repr. in*

V. flore albo. *Ger. by Johns.* 850.

V. martia simplex. *Park. parad.* 282. *t.* 285. *f.* 1, but the peduncles represented as growing on a stem.—*Renealm. t.* 140.

V. martia praecox, purpurea et alba, hortensis et campestris, odora, simplici flore. *Lob. ic.* i. 608, *repr. in*

V. nigra sive purpurea. *Ger. by Johns.* 850.

V. martia. *Trag.* 558. Leaves too acute.

V. purpurea. *Fuchs.* 311, *cop. in ed.* 12*mo* 308. *c.* 118, &

V. martia purpurea. *Bauh. J.* iii. *b.* 542.

VIOLA. Violet. The fresh petals. *Pharm. lond.* —*Alst.* ii. 245. *Berg.* 705. *Chom.* 73. *Dale* 239. *Geoffr. suite* iii. 314. *Herm.* 585. *Hill* 440. *Lew.* ii. 452; *disp. by Dunc.* 322. *Linn.* 231. *Murr.* i. 517. *Ploucq. bibl.* i. 195. *Rutty* 543. *Spielm.* 349. *Vog.* 151.

V. odorata. *Coste & Willemet in med. comment.* v. 298. *Murr. J.* ii. 57.

V. martia. *Mill. Jos.* 452.

Violaria. *Herm.* 548. *Linn.* 231. *Murr.* i. 517. *Vog.* 89.

Violets. *Fordyce G. fev.* ii. 54.

Violier. *Chom.* 706; *suppl.* 193.

2. *With a stem.* L.

2. VIOLA *pubescens.* Leaves cordate, acute, pubescent. Stipulae oblong, serrulate at the end. Stem

erect, villose, terete, flattish on one side. *From Hort. kew.* iii. 290.

VIOLA caule erecto, foliis cordatis acuminatis. *Cull. in amer. acad.* i. 485.

3. *With a stem. Stipulae cut or pinnatifid. Stigma urceolate.*

3. VIOLA *tricolor.* Lower leaves roundish oval and oblong, the upper elliptic and lanceolate. Root fibrous. *Obs.* 6322. On the side of the road between Fairfield and Tideswell in Derbyshire, on limestone, and more luxuriantly in an adjoining field of grass apparently newly laid down, and in similar fields between Norton and Sheffield on gritstone.—*L. suec. n.* 791, root annual;—*sp.* 1326. *Curt. lond.* i. 65. *t. Mill. Ph. dict. n.* 9. An annual plant, whose roots decay after it has flowered and perfected its seeds.—*Bot. arrang.* 957. *Hort. kew.* iii. 291. *Smith brit.* 248. *Renealm. t.* 140. *Woodv.* iv. 104. *t.* 252.

VIOLA tricolor. *Berg.* 708. *Dale* 239. *Mill. Jos.* 453. *Ploucq. bibl.* i. 14. 297. 437. *Strack, account from in med. journ.* ii. 187.

Jacea. *Lew. by Dunc.* 349. *Schlegel, account from in phys. journ.* xiv. 431. *Schrod.* 605.

α *caerulea.* Corolla longer than the calyx, purplish blue, the lowermost petal yellow at the base. *Obs.* 2453. In sand near Kidderminster Worcestershire.

V. tricolor. *Huds.* 380 β *Bot. arrang.* 957 β. *Raii cat. ed.* i. 317; *ed.* ii. 305. In the mountainous parts of the north of England, as in Derbyshire and Yorkshire.—*R. syn.* 365, among corn,

on mounds and ditch banks. An annual.—*Fl. dan. t.* 623. *Smith engl. t.* 1287.

V. tricolor with a pale blue flower. *Lightf.* 510.

V. bicolor arvensis, flore caeruleo et luteo. *Vaill. paris.* 203.

Jacea bicolor, frugum et hortorum vitium Trago, flore caeruleo et luteo. *Bauh. J.* iii. 548. No fig.

Jaccea, sive Flos trinitatis. *Cam. epit.* 912.

Herba trinitatis sylvestris floribus caeruleis et luteis. *Trag.* 563. No fig.

Root perennial, attenuate, with numerous fibres from the base and sides. *Stems* from the end of the root, hirsutulous, 3 to 5 inches long. *Leaves* obtusely serrate, hirsutulous. *Stipulae* pinnatifid; lateral segments linear, entire at the margin; the terminating one lanceolato-oblong, obsoletely and rarely crenate. *Calyx* hirsutulous, bluish at the base. *Corolla* 3 lowermost petals with purplish black lines. *Obs.* 6322.

β *trimaculata.* Corolla longer than the calyx. Two uppermost petals purple; lateral petals pale yellow, purple at the end; lowermost petal deep yellow and brownish purple at the end. *Obs.* 2856. In a garden.

V. tricolor. *L.* β. *Dod.* 158, *repr. in Ger. by Johns.* 854, *& cop. in*

V. sylvestris tricolor. *Park. theatr.* 756.

V. tricolor major et vulgaris. *Park. theatr.* 756.

V. tricolor with large flowers. *Mill. Ph. dict. n.* 9.

V. flammea sive tricolor. *Park. par.* 282. *t.* 285. *f.* 3. The root perisheth every year.

V. tricolor, hortensis, repens. *Vaill. paris.* 204. In the sands between the farm and chateau of Rochefort.

Herba trinitatis, *Fuchs.* 763. *ed.* 12*mo*, *c.* 310, in corn fields; *cop. in*

Jacea tricolor, sive trinitatis Flos. *Bauh. J.* iii. 546, *and abr. in*

Herba trinitatis. *Trag.* 564. Calyx too long in proportion to the corolla. He says that the cultivated kind is sometimes preserved during the winter.

Peduncles triquetrous, inner angle canaliculate. *Obs.* 2856.

4. *Flowers erect.* From L.

4. VIOLA *parviflora.* Leaves ovate, serrate, petiolate, glabrous. Flowers erect, solitary, axillary. Stems diffuse, weak, leafy. *From L. fil. suppl.* 396.

5. VIOLA *Calceolaria.* Stem simple, hirsute, herbaceous. Leaves lanceolate, pilose. Flowers solitary. *L. sp.* 1327.

VIOLA Calceolaria. *Decandolle, account from in edinb. journ.* i. 103.

6. VIOLA *Ipecacuanha.* Leaves oval, pilose at the margin and underneath. The larger petal gibbous at the base, without a spur. *From L. a Murr.* 804; *mant.* 484, *and Vandelli ap. L. fil. suppl.* 397.

Ipecacuanha blanca. *Pis. ind.* 231; *bras.* 101. No fig.

IPECACUANHA alba. *Berg.* 710. *Geoffr.* ii. 91. *Linn.* 232. *Spielm.* 616.

Ipecacoanha alba. *Cartheus.* ii. 402.

V. Ipecacuanha. *Decandolle, account from in edinb. journ.* i. 103.
White Ipecacuanha. *Douglass in phil. trans. abr. by Reid and Gray* vi. *part* ii. 219; *by Hult.* vii. 357; *and in Mihles ess.* ii. 207.
White Ipecacoanha. *Neum.* ii. 118.
Ipecacuanha blanc. *Pomet* i. 47.

190. IMPATIENS.

Calyx diphyllous. *Corolla* irregular, petals 5 and 3, some with a spur. *Capsule* superior, with 5 valves. *Obs.* 5896. *L.*

1. *Peduncles with* 1 *flower.* L.

1. IMPATIENS *Balsamina.* Peduncles aggregate. Leaves lanceolate, the upper alternate. Lowermost petal shorter. *L. sp.* 1329. *Hort. kew.* iii. 292.
Tilo-onapu, seu Notenga. *Rheede* ix. 101. *t.* 52.
Balsamina foemina persicifolia, vel salicis folio. *Bauh. J.* ii. 909. No fig.
Lysimachia laevis. *Bauh. J.* ii. 907, (The name and description belong to another plant.) *cop. from*
Balsamina foemina. *Fuchs.* 189. c. 69. *Park. parad. t.* 279. *f.* 8. *Besl. hort. aut. ord.* 1. *fol.* 4. *t. f.* 1. *Ger. by Johns.* 362. *repr. from*
Balsamina. *Dod.* 660.
LACCA herba. *Rumph.* v. 256. *t.* 90.

2. *Peduncles with several flowers.* L.

2. IMPATIENS *Nolitangere.* Peduncles solitary.

Leaves ovate. Joints of the stem swoln. *L. suec. n.* 792; *sp.* 1329. *Bot. arrang.* 962. *Fl. dan. t.* 582. *Smith brit.* 244. *Huds.* 380. Near Rydall hall and elsewhere in Westmorland.—*Host* 482.

Balsamina noli tangere. *Scop. carn. n.* 1101.

Impatiens. *Riv. tetrap. t.* 244.

Balsamita altera, Noli me tangere. *Col. ecphr.* i. *t.* 150.

Balsamine lutea, sive Noli me tangere. *Vaill. paris.* 20. *Boerh.* i. 320. In Holland.—*Dill. ap. Raii syn.* 316. Found by Richardson near Bingley Yorkshire, and by Llwyd in Wales.

Persicaria siliquosa. *Raii hist.* 1328. On the banks of Winander mere near Ambleside, and on the sides of mountains near the Rhine;—*syn. ed.* ii. 282. Found by Lawson in Satherthwaite parish Lancashire, and in many places in Westmorland.—*Ger. by Johns.* 446, *repr. from*

Impatiens herba. *Dod.* 648, *which cop. in*

Mercurialis sylvestris, Noli me tangere dicta, sive Persicaria siliquosa. *Park. theatr.* 296.

Persicaria siliquosa, sive Noli me tangere. *Lob. adv.* 135, *repr. in ic.* i. 318, *& cop. in*

Persicaria siliquata. *Dalech.* 1205.

Noli me tangere. *Bauh. J.* ii. 908.

Chrysaea. *Dalech.* 876.

Esula sylvestris. *Trag.* 295.

Corolla yellow, nearly an inch long. *Obs.* 5900. In a garden.

IMPATIENS. Vog. 130.

I. Noli tangere. *Cutl.* 485. *Schoepf* 129.

Noli me tangere. *Geoffr. suite* i. 195.

Persicaria siliquosa. *Dale* 268.

191. VALKERA.—

Calyx inferior, quinquepartite. *Petals* 5. *Drupes* 5, monospermous. *Nuts* reniform. *L. a Willd.*

Walkera. *L. a Schreb. n.* 378.

1. VALKERA *serrata.*
Walkera serrata. *L. a Willd.* i. 1145.
Frutex baccifer malabaricus, fructu calyculato tetracocco umbellato. *Raii hist.* 1572, *from TSJOCATTI. Rheede* v. 95. *t.* 48.

192. ELAEODENDRUM.

Calyx pentaphyllous. *Petals* 5. *Drupe* ovate. *Nut* bilocular. *From L. a Willd. and L. a Schreb.*

1. ELAEODENDRUM *Argan.* Branches spinose. Leaves ovate, obtuse. *Retz. obs.* vi. *n.* 29.
Rhamnus pentaphyllus. *L. a Murr.* 233. *Jacq. obs.* ii. 17.
Rhamnus siculus. *L. nat.* iii. 229, where for quinatis read quinis.
Rhamnus siculus pentaphyllos. *Boccon. sic.* 43. *t.* 21. *Raii hist.* 1626.
ELAEODENDRUM Argan. *Retz. ib.*

193. MANGIFERA.

Calyx pentaphyllous. *Petals* 5. *Stamina,* 3 and

4 of them barren. *Drupe.* *Nut* with loose fibres. *From L. & Vahl.*

1. MANGIFERA *indica.* Leaves petiolate, lanceolate. Panicles erect. Petals patulous at the end. Drupe somewhat reniform. *From Vahl. enum.* i. 7. *L. fil. suppl.* 157. *L. a Murr.* 242; *sp.* 290. *Brought.* 477. *Jacq. coll.* iv. 96; *ic.* ii. *t.* 337.
   Mao, seu Mau, seu Manghas. *Rheede* iv. i. *t.* 1. 2.
   Manga domestica. *Rumph.* i. 93. *t.* 25. 26.
   Mangas, sive Amba. *Bauh. J.* i. *a.* 173.
   Mangas *Park. theatr.* 1631.
   Manga indica fructu magno reniformi. *Raii hist.* 1550.
   MANGA. Dale 310.
   M. indica. *Bryant* 254. *Lour.* i. 198.
   Mango. *Percival, Rob. ceyl.* 312.
   Manghas tree. *Percival, Rob. ceyl.* 331.
   β *excelsa.* *MANGA* Pau. *Rumph.* i. 96. *t.* 26.
   γ *sylvestris.* *MANGA* silvestris. *Rumph.* i. 97. *t.* 27. Drupe oval.

2. MANGIFERA *foetida.* Leaves petiolate, lanceolate. Petals reflex. *From Vahl. enum.* i. 7, &
   MANGA foetida. *Rumph.* i. 98. *t.* 28, who says "stamina quorum unum altero longius," not reliquis longius as cited by Vahl. In the fig. they are equal. Drupe globular.

194. RIBES.

Petals 5, inserted into the calyx. *Stamina* inserted

into the calyx. *Style* bifid. *Berry* inferior, with several seeds. *L.*

1. *Without prickles.* L.

1. RIBES *rubrum.* Racemi of the flowers and fruit pendulous. Bracteae shorter than the pedicles. Petals cuneiform. Calyces glabrous. *Obs.* 2407. In a garden.—In a lane between Brewood Staffordshire and the mill which is half way between Brewood and the road leading to Wolverhampton. In Hurcott wood near Kidderminster but from an old pavillion being at no great distance I suspect it to have been originally planted there. But the white variety not having been found wild, I am inclined to believe the red to be a native and not a naturalised plant.—*L. suec. n.* 205; *sp.* 290.

α *rutilum.* Berries red. *H. K.* i. 279.

R. rubrum. *Lightf.* 146. In the Isle of Isla among the brush wood on the banks of the sound.—*Bot. arrang.* 242. *Walc. t.* In hedges.—*Roth germ.* i. 107. In hedges throughout Germany.—*Fl. dan. t.* 967. *Smith brit.* 263; *engl. t.* 1289. *Woodv.* ii. 207. *t.* 74.

R. acidus ruber. *L. lapp. n.* 98.

Grossularia, multiplici acino, sive non spinosa, hortensis, rubra, sive R. officinarum. *Vaill. paris.* 95.

Grossularia rubra. *Dalech.* 132.

Ribes. *Fuchs.* 663, *cop. in* 635. *ed.* 12*mo*, & *Trag.* 995.

R. vulgaris acidus ruber. *Bauh. J.* ii. 97. In gardens.

R. fructu rubro. *Park. parad. t.* 559. *f.* 2.

R. fructu rubro majore. *Park. theatr.* 1562.

Ribesium fructu rubro. *Dod.* 737, *repr. in*

R. arabum. *Lob. obs.* 615, *repr. in ic.* ii. 202,

R. vulgaris fructu rubro. *Ger. by Johns.* 1593, &

R. vulgaris fructu dulci. *Clus. hist.* i. 120. *Bobert ap. Raii syn. ed.* i. 236. Woods at Stanton in Leicestershire; *ed.* iii. 456. Found by Richardson near Settle Yorkshire.

R. fructu parvo. *Dill. ap. Raii syn.* 456. Found by Merret at Wimbleton and in Lancashire, and by James Sherard in Wimbleton Park.

RIBES rubrum. Red Currant. The fruit. *Pharm. lond.—Bryant* 166. *Lew. disp. by Dunc.* 295. *Pearson, R.* i. 68. *Schoepf* 28. *Spielm.* 78.

Ribesia rubra. *Berg.* 152. *Krock. n.* 354. *Linn.* 79. *Murr.* iii. 304.

Ribesium rubrum. *Pharm. austriaco-prov.* 61.

R. rubra. *Monro* iii. 236.

Ribesium. *Herm.* 511.

Ribesia. *Cull.* i. 253. *Heberd.* 3. 328. *Lew.* i. 443. *Quarin animad.* 198. *Stoll med.* iii. 129. 130. 287.

Ribes. *Dale* 293. *Mill. Jos.* 374. *Quarin febr.* 103. *Stoll med.* ii. 144.

Grossularia R. dicta. *Geoffr.* iii. 535.

Grossularia non spinosa. *Cartheus.* i. 435.

Grossularia multiplici acino, sive non spinosa, hortensis rubra, sive R. officinarum. *Boecl. ap. Herm.* 511. *Chom.* 818. *Rutty* 431.

Grossularia multiplici acino, non spinosa hortensis rubra. *Vog.* 262.

Red Currants. *Lew. in Neum.* ii. 234.

Currants. *Currie, W. account from in med. rev.* vi. 64. *Fordyce W. fev.* 135. 143. 159. 167. 189. 220. *Monro, Don. sold.* ii. 185.

R. vulgaire acide rouge. *Tourn.* i. 219.

Grossularia hortensis, majore fructu rubro. *Boecl. ap. Herm.* 511.

β *rubescens.* Berries pale red. In gardens.

γ *album.* Berries white. *H. K.* i. 279 β

R. inerme, floribus planiusculis, racemis pendulis. *L. ups.* 50.

R. vulgaris acidus, albas baccas ferens. *Bauh. J.* ii. 98. No fig. In the Stutgard garden.

R. fructu albo. *Park. theatr.* 1561. (The fig. is R. nigrum.)

R. fructu nigro. *Park. theatr.* 1561. (The description is R. nigrum.)

R. alba. *Park. parad.* 558. No fig.

RIBESIA alba. *Rutty* 431.

Ribes rubrum, varietas alba. *Spielm.* 78.

Grossularia hortensis, fructu margaritis simili. *Boecl. ap. Herm.* 511. *Geoffr.* iii. 536.

Grossularia hortensis, majore fructu albo. *Boecl. ap. Herm.* 511.

2. RIBES *alpinum.* Racemi of the flowers erect. Bracteae longer than the pedicles. *Obs.* 8071. In a hedge between Deerleap and Littlemore near Ashover Derbyshire, on gritstone, and in the hedge of a garden in a similar situation.—*L. suec. n.* 206; *sp.* 291. *Lightf.* 146. *Fl. dan. t.* 968. *Jacq. austr.* i. *t.* 47, inner fig. a male plant; outer figures female plants.—*Retz. obs.* ii. 11. *n.* 17. α is probably a male plant; and β a female plant.—*Bot. arrang.* 242. *Roth germ.* ii. 276, who describes the male and female flowers, and says that the female plants *seldom* produce ripe berries when a male plant is not near them.—*Smith brit.* 264; *engl. t.* 704. *Gunn. n.* 395. *t.* 2. *f.* 1. 2. Fertile plants.

R. alpinus dulcis. *L. lapp. n.* 97. *Bauh. J.* ii. 98. *Raii syn.* 456. Found by Dodsworth in Yorkshire, and by Richardson in hedges near Bradford in Yorkshire.

R. minor, fructu rubro. *Besl. hort. vern. fol.* 14. *t.*

Leaves above hirsutulous and dull, shining and nearly glabrous underneath, cordate, trilobate; segments inciso-serrate. *Peduncle, pedicles* and *bracteae* with glandular hairs. *Calyx*, segments oval. *Petals* cuneiformi-rhombic, thrice as small as the segments of the calyx. *Antherae* roundish, whitish, sessile, apparently without pollen, but all the flowers had been some time expanded. *Receptacle* green, flat, with globules of liquid on the surface. *Style* somewhat shorter than the calyx. *Stigmata* 2, very short. *Obs.* 8071.—*Seeds* 3, connected by threads to the rind of the berry. *Obs.* 5922. In Mr. Wilkinson's garden with no others growing near it.—*Racemi of the fruit* somewhat pendulous. *Berries* yellowish red, sweetish, but not at all grateful. *Obs.* 6458. 6459. Plants some in fruit, others with dead peduncles, in the garden of Mr. Sneyd who gathered them in the neighbourhood of Belmount Staffordshire, and who considered the fruitful plants as female and the barren ones as male.

RIBES alpinum. *Linn. amoen.* vi. 347.

3. RIBES *nigrum.* Racemi pilose. Flowers oblong. *L. suec. n.* 207; *sp.* 291. *Fl. dan. t.* 556. *Walc. t. Bot. arrang.* 243. *Smith brit.* 265; *engl. t.* 1291. *Woodv.* ii. 209. *t.* 75.

R. vulgaris, fructu nigro. *L. lapp. n.* 99.

Grossularia nigra. *Dalech.* 133.

Ribesium fructu nigro. *Dod.* 737, *repr. in*

R. nigra. *Lob. ic.* ii. 202, &

R. fructu albo. *Ger. by Johns.* 1593, (the description is of R. rubrum β) *and cop. in Park. theatr.* 1562, (the description is of R. rubrum β) &

R. nigrum vulgo dictum, folio olente. *Bauh. J.* ii. 99. *Raii syn.* 456.

R. fructu nigro. *Park. theatr.* 1562. (The fig. is R. rubrum β)

RIBES nigrum. Black Currant. The fruit. *Pharm. lond.—Berg.* 154. *Bryant* 167. *Cull.* i. 253. *Hill* 512. *Lew. disp. by Dunc.* 295. *Pearson, R.* i. 68. *Rutty* 431. *Schoepf* 28. *Spielm.* 78. *Vog.* 136.

R. nigra. *Dale* 293. *Monro* iii. 236.

Ribesia nigra. *Krock. n.* 356. *Linn.* 79. *Murr.* iii. 307.

Ribesium nigrum. *Pharm. austriaco-prov.* 60.

Grossularia olens, R. nigrum dicta. *Geoffr.* iii. 539.

Grossularia non spinosa, fructu nigro. *Vog.* 262.

Grossularia non spinosa, fructu nigro majore. *Boecl. ap. Herm.* 511.

Black Currants. *Baker, H. in phil. trans. abr. from in Mihles ess.* ii. 400. *Cutl. in amer. acad.* i. 421.

2. *Aculeate.*

4. RIBES *oxyacanthoides.* Branches covered with aculei. *L. sp.* 291. *Hort. kew.* i. 281.

R. ramis undique aculeatis. *L. ups.* 51.

RIBES oxycanthoides. *Marsh.* 132.

5. RIBES *Grossularia.* Prickles axillary. Flowers in pairs and solitary. *Obs.* 5915. 5916. In gardens.

Grossularia Uva. *Scop. carn. n.* 270.

Grossularia simplici acino, vel spinosa sylvestris. *Tourn. paris.* 464. In the woods of Saint Germain and Montmorency.—*Vaill. paris.* 95.

Grossularia alba. *Dalech.* 131.

Uva crispa. *Fuchs.* 186. *c.* 68. In thickets and hedges in Suabia.—*Dod.* 736, *repr. in*

Uva crispa. *Ger. by Johns.* 1324, *& cop. in*

Uva crispa, sive Grossularia sylvestris. *Park. theatr.* 1560.

Grossularia rubra et caerulea. *Park. theatr.* 1560. *Prickles* triple, double, and single. *Obs.* 5915.

Native of Germany, Switzerland, France, and the north of Italy.

GROSSULARIA. Berg. 157. *Dale* 293. *Mill. Jos.* 220. *Rutty* 224.

Uvae crispae. *Spielm.* 104.

Grossularia Uva crispa dicta. *Geoffr.* iii. 533.

Gooseberries. *Dieudonne, account from in chir. rev.* xi. *part* ii. 13. *Fordyce W. fev.* 159. 167. 189. 206.

Grossularia simplici acino, vel spinosa. *Chom.* 818.

α *hirsuta.* Berries hairy. *Obs.* 5915.

R. Grossularia. *L.—Walc. t.* In hedges.—*Bot. arrang.* 243. On old buildings and church towers.

R. Uva crispa. *Fl. dan. t.* 546. In hedges.—*Smith engl. t.* 1292.

Grossularia aculeata. *Park. parad. t.* 559. *f.* 5.

Greene prickly Gooseberry. *Park. parad.* 561. The seed hereof hath produced bushes bearing berries, having few or no prickles upon them.

Uva crispa, sive Grossularia. *Bauh. J.* i. *b.* 47.

RIBES Grossularia. *Bryant* 167. *Krock. n.* 358. *Pearson, R.* i. 68.

β *glabra*. Berries glabrous. *Obs*. 5916. In a garden.

R. Uva crispa. *L.—Relh*. 98. Woods and hedges. *Sibth. ox*. 84, who justly marks it as not indigenous.

Grossularia vulgaris. *Park. parad. t*. 559. *f*. 3.

Grossularia fructu rubro. *Park. parad. t*. 559. *f*. 4.

RIBES Uva crispa. *Krock. n*. 357. *Linn. amoen*. vi. 347.

195. DARTUS.

Calyx inferior, quinquefid. *Corolla* campanulate; tube globular. *Berry* unilocular, polyspermous, diaphanous. *From Lour*.

1. DARTUS *Perlarius*. *Lour*. i. 152.

196. LEA.

Corolla monopetalous. *Nectarium* monophyllous, inserted into the tube of the corolla, quinquefid, erect. *Berry* with 5 seeds, inferior. *L. a Willd*. i. 1177. *L*.

1. LEA *bipinnata*.—Stem sulcato-angular, glabrous. Leaves mostly bipinnate. *Willd*.

Leea sambucifolia. *Salisb. R. allert*. 144, *repeated at* 317.

Leea sambucina. *L. a Willd*. i. 1177.

Aquilicia sambucina. *L. mant*. 211.

Staphylea indica. *Burm. N. ind*. 75. *t*. 24. *f*. 2.

FRUTEX AGNOSUS femina. *Rumph.* iv. 103. *t.* 45.

197. ARGYREIA.

Calyx pentaphyllous. *Corolla* quinquepartite, plicate. *Berry* quadrilocular, monospermous and dispermous. *From Lour.*

1. ARGYREIA *obtusifolia.* Panicles mostly terminal. *From Lour.* i. 166.

2. ARGYREIA *arborea.* Racemi terminal. *From Lour.* i. 167.

198. HEDERA.

Calyx quinquedentate. *Petals* 5. *Germen* semi-inferior. *Pomum* with from 3 to 5 cells. *Obs.* 4176. *L.*

1. HEDERA *diversifolia.* Umbels erect. *Obs.* 4176. On trunks of trees, and against old walls.

H. Helix. *L. suec. n.* 209; *sp.* 292. *Curt. lond.* i. 16. *t. Bot. arrang.* 245. *Dalech.* 1419. *Smith brit.* 267; *engl. t.* 1267. *Fl. dan. t.* 1027. *Krock. n.* 359. *Dod.* 408, *repr. in Ger. by Johns.* 858, *& cop. in Park. theatr.* 679. *Fuchs.* 414. *c.* 161, *cop. in*

H. communis minor. *Bauh. J.* ii. 111.

H. communis major et minor. *Raii syn.* 459.

H. foliis lobatis et ovatis. *L. lapp. n.* 91.

H. arborea. *Vaill. paris.* 96. *Dalech.* 1418.

Hedera. *Brunsf.* ii. 7. *Trag.* 801. *Dod.* 408, *repr. in.*

H. corymbosa. *Ger. by Johns.* 858.

H. nigra. *Fuchs.* 414. *c.* 161, *cop. in*

H. communis major. *Bauh. J.* ii. 111.

H. Dionysias. *Dalech.* 1419, *cop. in*

H. Dionysias, sive chrysocarpos. *Park. theatr.* 679.

Maur Epphew. *Brunsf.* ii. 6.

Peduncles, *pedicles*, *petioles*, and *calyx* tomentose; tomentum stellate. *Obs.* 4176.

HEDERA. Chom. 76. *Lew.* i. 483. *Vog.* 322.

H. arborea. *Pharm. austriaco-prov.* 41.—*Berg.* 159. *Cartheus.* iii. 354. *Chom.* 655; *suppl.* 183. *Dale* 295. *Geoffr.* ii. 535. *Lew. disp. by Rother.* 168. *Linn.* 80. *Mill. Jos.* 223. *Murr.* i. 307. *Neum.* ii. 46. *Ploucq. bibl.* i. 130. 139. *Rutty* 232. *Spielm.* 379. *Vog.* 103. 271.

199. VITIS.

Calyx quinquedentate. *Petals* 5. *Germen* superior, with 5 and 2 cells. *Nectarium* quinquedentate. *Berry* of 1 cell, with from 1 to 5 seeds. *Obs.* 6058. *L.*

1. VITIS *indica*. Leaves cordate, dentate, villose underneath. Cirrhi bearing racemi. *L. sp.* 293. *Lour.* i. 192.

Cevalchichiltic. *Hern.* 128. No fig.

SCHEMBRA-VALLI. Rheede vii. 11. *t.* 6. Leaves crenato-repandose.—*Raii dendr.* 67.

2. VITIS *Labrusca*. Leaves cordate, dentate, angular, tomentose underneath. *Obs.* 2581. Specimen gathered by Broughton in Jamaica.—*L. sp.* 293. *Hort. kew.* i. 282. *Lour.* i. 193.

V. indica. *Swartz. obs.* 95.

V. silvestris, sarmentis late repentibus, uvis minoribus nigris. *Browne* 178.

V. foliis cordatis subtrilobis dentatis subtus tomentosis. *Gron. virg.* 34.

V. foliis palmato-angulatis. *Gron. virg. ed.* i. 144.

V. hederae folio serrato. *Plum. a Burm. t.* 259. *f.* I. Leaves angular.

V. vinifera sylvestris americana, foliis aversa parte densa lanugine tectis. *Pluk. phyt. t.* 249. *f.* 1. Leaves angular and trilobate.

Labrusca molucca. *Rumph.* v. 452. *t.* 167. Leaves lobate, angular, and dentate.

Leaves cordate, acuminate, dentate, angular, angles from 1 to 3, lanuginose above, tomentose underneath; teeth acute; tomentum ferrugineous. *Cirrhi* opposite to the leaves, dichotomous and simple. *Racemi* compound, just expanding. *Obs.* 2581.—*Leaves* cordate, dentate, lanuginose above, tomentose underneath; tomentum whitish brown. *Racemi* compound, similar to those of V. vinifera, opposite to the leaves. *Young shoots* ferrugineous. *Obs.* 8681. Specimen gathered by Dr. Wright in Jamaica.

VITIS fructu minore rubro acerbo, folio subrotundo minus laciniato subtus alba lanugine tecto. *Sloane cat.* 171; *hist.* ii. 104. *t.* 210. *f.* 4. Leaves angular, and dentate. No fructifications.

3. VITIS *vinifera*. Leaves cordate, lobate, and sinuate, crenate. *Obs.* 2580. In a garden.—*Schmid.* i. 32. *t.* 7. *Dod.* 410, *repr. in Lob. ic.* i. 629,

and Ger. by Johns. 875, *and cop. in Park. theatr.* 1556. *Bauh. J.* ii. 67. *Dalech.* 1402. *Fuchs.* 87. *c.* 29. *Trag.* 1056.

Vitis. *Tourn. inst. t.* 465, *fruit; t.* 466, a branch and leaf.

V. vinifera, ex cujus uvis acerbis immaturis omphacium exprimitur. *Boerh.* ii. 232.

V. acinis albis dulcissimis, &c. *Garid.* 492 *to* 517.

VITIS. Pharm. lond.—Alst. ii. 306. *Berg.* 160. *Dale* 320. *Geoffr. suite* iii. 351. *Linn.* 80. *Mill. Jos.* 456. *Schoepf* 28.

V. vinifera. *Pharm. edin.—Bryant* 216. *Lew. disp. by Dunc.* 322. *Pearson, R.* i. 69.

UVAE IMMATURAE. Ploucq. bibl. i. 525.

Uvae recentes immaturae. *Spielm.* 98.

AGRESTA. Linn. 80. *Mill. Jos.* 458. *Murr.* i. 310. *Spielm.* 98.

UVAE. Quarin febr. 373.

Uvae recentes. *Murr.* i. 310. *Spielm.* 99.

Grapes. *Clegh.* 195. *Currie, W. account from in med. rev.* vi. 64. *Fordyce G. fev.* ii. 36; iii. 194; *W. fev.* 135. 159. 167. 206. *Monro, Don. sold.* i. 318; ii. 185. *Rush* v. 119.

PASSULAE MAJORES. Pharm. austriaco-prov. 55. *suec.—Cull.* i. 254. *Herm.* 400. *Hill* 484. *Linn.* 80, the name by an error of the press omitted. *Spielm.* 98. *Vog.* 259.

Passulae, sive Uvae passae majores. *Murr.* i. 312.

Passulae, Uvae passae, et Passulae majores. *Alst.* ii. 306.

Uvae passae majores. *Lew.* ii. 478. *Mill. Jos.* 457. *Rutty* 556.

Uvae passae, seu Passulae majores. *Cartheus.* ii. 187.

Uvae passae minores, seu vulgares. *Geoffr.* ii. 316.

Uva passa major. *Dale* 320.

Uva passa. Raisin. *Pharm. lond. edin.—Heberd.* 328.

Raisins. *Blane* 302. *Darw.* ii. 274. *Fordyce, G. fev.* ii. 36.

UVAE PASSAE MAXIMAE, seu Passulae damascenae. *Geoffr.* ii. 316.

Passulae damascenae. *Dale* 320.

MUSTUM. *Spielm.* 99.

VINACEA. *Quarin anim.* 284. *Spielm.* 99.

VINUM. Wine. *Pharm. lond.—Bell, B. surg.* i. 72. *Boerh. aph. n.* 1402. *Callisen in act. haun.* i. 74. 362. *Cels. l.* 4. *c.* 24. *Colden in med. obs.* i. 225. *Cull.* ii. 315. 432. *Dale* 320. *Fordyce, G. pract.* 169. 210; *W. fragm.* 44. 56. *Heberd.* 2. 8. 9. 48. 153. 204. 214. 230. 233. 327. 357. 394. *Hoffm.* v. 342. 355. 341; vi. 469. *Lew.* ii. 450. *Linn.* 80. *Mead mon.* ii. 90. *Murr.* i. 314. *Pearson, R.* i. 104; ii. 202. *Quarin febr.* 80. 85. 146. 158. 183. 204. 346. 372. 434; *animad.* 101. 146. 296. *Rutty* 537. *Sandiford in med. obs.* iv. 317. *Spielm.* 100. *Stoll med.* ii. 202. 206; iii. 109. 272; *aph. n.* 501. 808. *Wainman ap. Smellie thes.* iii. 269. *Willis. diatr.* 238. *Wintringh. in Mead mon.* i. 220. 249.

Wine. *Aitken midw.* 118. 127. 131. 134. 182. 206. *Baylies in med. pap.* 46. *Binns in phys. journ.* xv. 494. *Bisset ess.* 75. *Blane* 122. 321. 324. 410. 495. *Blizard, account from in med. rev.* i. 330. *Bree* 294. *Brown, J.* i. 98. 150. 180. 198. 216; ii. 224. 230. 233. 268. 273. 274. 277. 306. 319. 347. 349. 350. 357; *W. account from in chir. rev.* x. 281. *Chalm.* i. 67. 84. 144. 203; ii. 94. *Chisholm* 157. 171. 176. 178. 193. *Clark,*

Vinum hispanicum. *Pharm. suec.—Quarin anim.* 295.

Vinum hungaricum. *Quarin animad.* 157.

Vinum madererum. *Aaskow in act. haun.* i. 163.

Madeira. *Brown, J.* ii. 249. *Kirkland apopl.* 98.

Vinum montanum. *Wintringh. in Mead mon.* i. 229.

Mountain Wine. *Mill. Jos.* 456.

Sherry. *Mill. Jos.* 456.

White Port Wine. *Mill. Jos.* 456.

Vinum rhenanum. *Pharm. suec.—Aaskow in act. haun.* i. 163. *Fordyce, W. fragm.* 19. *Mead mon.* i. 32. *Quarin febr.* 67. 94. 121. 207. 348; *animad.* 207. *Wintringh. in Mead mon.* i. 229.

Vinum rubrum. *Aaskow in act. haun.* i. 163. *Quarin anim.* 264. 265. 305; *febr.* 80.

Red Wine. *Aitken midw.* 136. *Underw.* iii. 138.

Red Oporto Wine. *Chalm.* i. 96. 222; ii. 125.

Red Port Wine. *Chalm.* i. 147. 153. 167. 187; ii. 18. 88. 98. 204. 208. *Mill. Jos.* 456. *Underw.* iii. 143.

Vinum rubrum hungaricum. *Quarin* 183. 202.

Vinum tokainum. *Quarin anim.* 295.

Vinum tokaviense. *Quarin febr.* 399.

Vinous liquors. *Brown, J.* i. 107. *Trotter, account from in edinb. journ.* i. 75.

LORA. Spielm. 101.

TARTARUM. Pharm. lond.—Hill 799. *Lew.* ii. 410. *Pearson, R.* i. 212. 237. *Rutty* 509.

Tartarus. *Alst.* ii. 483. *Dale* 320. *Geoffr.* ii. 758. *Fordyce, G. pract.* 207. *Herm.* 726. *Spielm.* 103.

Tartarus crudus. *Pharm. suec.*

Supertartris potassae impurus. *Pharm. edin.—Lew. disp. by Dunc.* 314.

Tartarus vini crudus. *Carthcus.* i. 424.

Tartar. *Clark J. long voy.* 427. *Fordyce, G. pract.* 150; *fev.* ii. 54. *Mill. Jos.* 458. *Monro* i. 81.

Supertartris potassae. *Pharm. edin.—Lew. disp. by Dunc.* 315. *Murr. J.* i. 359.

Tartari crystalli. *Pharm. lond.—Callisen in act. haun.* i. 74. 421. *Fordyce, W. fragm.* 27. 83. *Quarin febr.* 162. 382; *animad.* 260. *Wintringh. in Mead mon.* i. 155. 250. 256.

Crystals of Tartar. *Clark J. long voy.* 187. 327. *Cull. pract. n.* 1448. 1685. *Monro* i. 116. *Wright in ann. med.* ii. 352.

Cremor tartari. *Aaskow in act. haun.* i. 197. 199. 202. *Aitken midw.* 121. *Bang in act. haun.* i. 19. 93. 274. 296; ii. 40. 49. *Baylies in med. pap.* 44. *Callisen in act. haun.* i. 416. *Clegh.* 202. 252. *Fordyce, W. fragm.* 48. *Ploucq. bibl.* i. 414. 655. *Pringle* 213. *Quarin febr.* 14. 28. 59. 144. 160. 219; *animad.* 46. 171. 188. 199. 223. 240. 267. *Ranoe in act. haun.* i. 35. *Rogert in act. haun.* i. 188. *Stoll med.* ii. 75. 100; iii. 158. 171. 192. 185. 303. 315. *Underw.* ii. 62. *Wright in ann. med.* ii. 361.

Cream of tartar. *Blane* 492. *Chalm.* ii. 90. *Cull. pract. n.* 1683. *Darw.* ii. 106. *Ferriar* i. 52. 87. 94; ii. 116. 162. *Fordyce W. fev.* 155. 160. *Hammick in contrib.* 382. *Home F. clin.* 326. *Hume, J. in lett. & ess.* 213. 217. *Jackson, Rob. fev.* 331. *Lempr.* ii. 159. *Lind hot. clim.* 260; *scam.* 18. 36. 96. 262. *Monro, Don. sold.* ii. 186. *Moseley* 16. 17. 178. 442. 541. *Rush* i. 112; iii. 245. 302; iv. 89; v. 171. *Sims, James* 25. *Underw.* i. 304; ii. 121. *White, C. account from in chir. rev.* viii. 59.

Creme of Tartar. *Pringle* 151.

Imperiale. *Fordyce, W. fev.* 135. 167. 219.

KALI. Denm. i. 260. *Heberd.* 6. 80. 216. *Moodie in phys. journ.* xi. 482. *Stutz, account from ib.* iii. 572. *Underw.* i. 28. 97. 108. 123. 127. 134. 164. 308. 355; ii. 16. 167.

Potassa. *Murr. J.* i. 298. 367. 372; ii. 156. *Mitchill, account from in med. rev.* i. 310.

Lixivium. *Home, Rob. in med. journ.* iv. 384. *Lane in med. facts* iii. 127; *and new med. journ.* i. 109.

Alcalia. *Ploucq. bibl.* i. 128. 461.

Alkalies. *Brickell, account from in phys. journ.* xiv. 478. *Darw.* ii. 753. *Grant fev.* i. 258. *Hargens, account from in phys. journ.* iv. 183, *and med. rev.* ii. 572. *Lind hot clim.* 248. *Mitchill, account from in med. rev.* vi. 239. *Pajot, account from in phys. journ.* iii. 168. *Whyte ib.* 233.

Kali praeparatum. *Pharm. lond.—Heberd.* 191. *Pearson, R.* ii. 216.

Carbonas potassae. *Michaelis account from in ann. med.* iv. 276. *Wiedeman ib.* 281.

Carbonate of potass. *Claubry, account from in phys. journ.* iv. 371. *Guinot, account from ib.* iii. 80. 165. 264. 363. *Mascagni, account from ib.* iv. 467. *Mitchill, account from in phys. journ.* i. 512.

Carbonate of potash. *Hull phlegm.* 219.

Kali aëratum. *Pearson, R.* i. 234.

Alcali vegetabile. *Cartheus.* i. 436.

Vegetable Alkali. *Blane in trans. improv.* ii. 142. *Monro* i. 125. 148; iv. 231. *Stutz, account from in ann. med.* v. 195. 206.

Alcali fixum. *Aaskow in act. haun.* i. 330. *Ploucq. bibl.* i. 653.

Fixed Alkali. *Darw.* ii. 494. *Gaitskell in med. facts.* iv. 66.

Sal alcalinus. *Heberd.* 405. *Pott* ii. 218. *Wintringh. in Mead mon.* i. 248.

Alkaline salts. *Chalm.* i. 182. *Cull. pract. n.* 1206. *Fothergill, J. in med. obs.* vi. 111. *Hufeland, account from in med. rev.* ii. 455.

Lixivium alcalinum. *Quarin anim.* 291.

Lixivial salts. *Denm.* i. 265. *Monro, Don. sold.* 287. *Pringle* 215. 216.

Alcali fixum vegetabile. *Ploucq. bibl.* i. 280.

Vegetable Fixed Alkali. *Mitchill, account from in phys journ.* i. 189; *& chir. rev.* vi. 196.

Fixed Vegetable Alkali. *Memminger, account from in phys. journ.* ix. 176. *Stuetz, account from in med. rev.* v. 405; vi. 335.

Sal alkalinus fixus. *Lew.* ii. 291.

Fixed alkaline salt. *Daniel in med. commun.* i. 155.

Sal tartari. *Bonhomme, account from in Underw.* i. 342. *Buchhave in act. haun.* i. 325. *Fordyce, W. fragm.* 68. *Hoffm.* vi. 512. *Mursinna, account from in phys. journ.* vi. 280. *Quarin animad.* 172. 176. *Stutz, account from in phys. journ.* v. 473. 557.

Salt of Tartar. *Chalm.* i. 220. *Darw.* ii. 45. *Evans in phys. journ.* iii. 535. *Rush* ii. 172.

Lixivium tartari. *Fordyce, W. fragm.* 50.

Oleum tartari per deliquium. *Chalm.* i. 215. *Fordyce W. fragm.* 93. *Quarin febr.* 241.

Lixivium saponarium. *Mead mon.* ii. 62.

Caustic Lie. *Home, F. clin.* 443.

Sal aëratus. *Holyoke, account from in phys. journ.* i. 295.

FAEX VINI. Rutty 542.

ACETUM. Pharm. lond.—Callisen in act. med. haun. i. 361. *Cartheus.* i. 415. *Dale* 320. *Lew.*

i. 19. *Linn.* 80. *Heberd.* 150. 156. *Mead mon.* i. 37. 119. 266. *Mertens obs.* 172. *Murr.* i. 321. *Pearson, R.* i. 89. *Ploucq. bibl.* i. 123. 451. 505. 515. 594. 637. *Quarin febr.* 15. 27. 28. 31. 36. 83. 103. 106. 120. 125. 133. 140. 142. 149. 150. 158. 162. 171. 204. 206. 219. 231. 276. 282. 288. 305. 307. 319. 328. 334. 345. 346. 381. 407. 421. 424. 429; *animad.* 6. 54. 131. 199. 227. 262. 265. *Ranoe in act. haun.* i. 387. *Rutty* 6. *Stoll med.* i. 8; ii. 41. 199. 326. 330. 332; iii. 26. 187. 183; *aph. n.* 495. 501. *Swiet.* iii. 572. *Underw.* i. 309. *Wintringh. in Mead mon.* i. 179. 230. 231. 241. 250. *Worthington ap. Smell. thes.* i. 217.

Acidum acetosum. *Pharm. edin.—Fordyce, G. pract.* 207. *Murr. J.* i. 358; ii. 51.

Acidum acetosum impurum. *Lew. disp. by Dunc.* 123.

Acetous acid. *Bree* 267. 289. 364.

Acetum vini. *Pharm. succ —Aaskow in act. haun.* i. 161. *Bang. ib.* i. 95. 106. 113. 114; ii. 52.

Acetum simplex. *Spielm.* 103.

Vinegar. *Baylies in med. pap.* 44. *Blane* 492. 60. 302. *Blizard, account from in med. rev.* i. 331. 329. *Brandreth in med. comment. dec. II.* vi. 383. *Bree* 257. 258. 268. 282. 293. 251. *Bromfield* ii. 67. *Chalm.* i. 107. 122. 167. 221; ii. 90. 107. 114. 209. *Clark, J. long voy.* 337. *Cleghorn, Dav. in med. facts* ii. 120; *and account of in new med. journ.* i. 228. 291. *Cooke in phys. journ.* vii. 256. *Cull. clin.* 229; *pract. n.* 373. 921. 1207. 1625. *Darw.* ii. 59. 72. 73. 219. 230. 235. 245. 259. 437. 500. 682. 710. 721. *Denm.* ii. 334. *Fordyce, W. fev.* 160. 167. *Grieve in Aitken midw.* 182. *Halls in med. comment. dec. II.* x. 327, *Harrison, W. in med. soc.* iv. 107.

Jackson, Rob. jam. 407. *Kok, account from in med. rev.* i. 569. *Leonissa in new med. journ.* i. 113. *Lind scam.* 17. 18. 37. 96. 249. 259. 360. *Med. rev.* iii. 426. *Mill. Jos.* 458. *Moises in phys. journ.* vii. 337. *Monro* i. 114. 76. *Moseley* 23. *Neum.* ii. 271. *Percival, T.* i. 69. 75. 105. *Pott* i. 27. 437. *Pringle* 127. 132. 135. 139. 143. 158. 305. 306. 310. *Rush* i. 125. 130; ii. 73. *Schumacher, account from in phys. journ.* vii. 81. *Smyth jail dist.* 179. *Trotter, account from in chir. rev.* ii. 50. *Underw.* i. 200; ii. 24. 120. 137. 151. 152. *Wright in med. facts* vii. 2. *Willan lond.* 234. 284.

BRANDY. *Bree* 294. 298. *Chalm.* i. 220. 222; ii. 88. 208. *Clark, J. long voy.* 327. *Currie, W. account from in med. rev.* vi. 63. *Darw.* ii. 17. 69. *Ferriar* iii. 90. *Hunter, J. blood* 412. *Jackson, Rob. fev.* 261. 290. 310. *Lempr.* ii. 162. 178. 179. 190. 191. *Lettsom in med. soc.* i. 163. *Lind hot clim.* 313; *scam.* 17. *Maclean* 169. *Mill. Jos.* 458. *Monro, Alex. sen. in med. ess.* vi. 17. 19. *Neum.* ii. 258. *Pringle* 136. 210. 283. *Rush* ii. 288; iii. 291; v. 120. 122. 184. *Sandford, account from in med. rev.* iii. 117. *Underw.* i. 123; ii. 39. 59. 101. 105. 107. *Ware ophth.* 51. *Wright in med. facts* vii. 11.

ALCOHOL dilutum. *Pharm. edin.—Lew. disp. by Dunc.* 130. *Murr. J.* i. 110.

Spiritus vinosus tenuior. *Pharm. lond.*

Spiritus vini gallicus. *Pharm. suec.*

Spiritus vini. *Bang in act. haun.* i. 109. *Fordyce, W. fragm.* 24. *Heberd.* 2. 90. 150. 280. 314. 338. 353. *Mead mon.* i. 137; ii. 90. *Murr.* i. 319. *Pearson, R.* i. 105; ii. 202. *Ploucq. bibl.*

i. 314. 316. 313. 486. 521. *Pott* i. 27. 437. *Ranoe in act. haun.* i. 387. *Quarin animad.* 146. *Underw.* ii. 107. *Ware ophthalm.* 51.

Spiritus vinosus. *Rutty* 492.

Spirit of Wine. *Darw.* ii. 47. 57. 129. 263. 264. 336. *Kentish, E. account from in chir. rev.* iv. 440; *and med. rev.* v. 231. *Neum.* ii. 261. *Parkinson in med. soc.* v. 62; *and account of in med. rev.* ii. 111. *Underw.* ii. 24.

ALCOHOL. Pharm. edin.—Darw. ii. 23. 61. 678. 682. 745. *Fordyce, G. pract.* 207. *Hull phlegmat.* 295. *Lew. disp. by Dunc.* 128. *Murr. J.* i. 110. *Trotter, account from in phys. journ.* xii. 86. *Ward ib.* ix. 40.

Spiritus vinosus rectificatus. *Pharm. lond.*

Spirit. *Aitken midw.* 191. 206. *Brown, J.* i. 93. 150. 216. 268. 224. 361. 364. 286; ii. 218. *Underw.* ii. 151.

Vinous Spirit. *Darw.* ii. 128. 129. 682. 745.

Ardent Spirit. *Aitken midw.* 127. *Cull. pract. n.* 490. 576. 580. 1198. *Monro* ii. 209. *Rush* v. 143. 181; *and account from in chir. rev.* xii. *part* ii. 43.

Fermented Spirit. *Brown, J.* ii. 273. 362. 363.

Spirituous liquors. *Sims, James* 34.

Spirits. *Darw.* ii. 274. 347. *Fothergill, J. in med. obs.* vi. 130. *Lettsom in med. soc.* i. 157. *Monro, Alex. sen. in med. ess.* vi. 19. *Pringle* 210.

Distilled Spirits. *Fordyce, G. fev.* iii. 257.

α *glabra.* Leaves glabrous. In gardens. *From memory.*

V. vinifera. *L. sp.* 293. *Hort. kew.* i. 282. *Woodv.* 531. *t.* 195. *Lour.* i. 192. *Jacq. vind.* 39. In woods near the Danube;—*coll.* i. 160; *ic.*

5. *t.* 50. On the banks of the Danube.—*Sibth. prodr. n.* 561. In Greece on the banks of rivers.

Uvae. *Merian surin.* 34. *t*; 47. *t.*

β *lanuginosa.* Leaves lanuginoso-villose. *Obs.* 2580.

V. Labrusca. *Scop. carn. n.* 272. In hedges about Duina and Gortz.—*Honck. n.* 678.

V. foliis lobatis sinuatis nudis. *Kram.* 58. On islands in the Danube.

V. sylvestris, Labrusca. *Boerh.* ii. 232. *Garid.* 492.

Cirrhi opposite to the leaves. *Racemi* compound, opposite to the leaves. *Nectarium* surrounding the base of the germen. *Obs.* 2580.

γ *apyrena.* Berries without seeds. In a garden.—*L. sp.* 293.

V. corinthiaca, sive apyrena. *Bauh. J.* ii. 72. No fig.—*Garid.* 492.

PASSULAE MINORES. Pharm. austriaco-prov. 55.—*Alst.* ii. 306. *Cartheus.* i. 431. *Herm.* 400. *Lew. disp. by Dunc.* 349. *Murr.* i. 312. *Vog.* 259.

Passulae corinthiacae. *Linn.* 80.

Passulae. *Spielm.* 97.

Uvae passae minores. *Dale* 321. *Lew.* ii. 479; *disp. by Rother.* 264. *Mill. Jos.* 457.

Uvae passae minimae. *Geoffr.* ii. 317.

4. VITIS *quinquefolia.* Leaves quinate; folioles ovate, serrate. *Obs.* 6058. In a garden.

V. hederacea. *L. a Willd.* i. 1182. *Ehrh.*

V. hederacea indica *Stap.* 364.

Ampelopsis quinquefolia. *Michaux* i. 160.

Hedera quinquefolia. *L. sp.* 292; *mant.* 343. *Hort. kew.* i. 281.

Edera quinquefolia canadensis. *Carn.* 100, *t.* a branch of which *cop. in*

Hedera virginensis quinquefolia. *Park. theatr.* 679, inner fig. &

V. seu potius Hedera virginensis. *Park. par.* 612. *t.* 609. *f.* 7, with the addition of a racemus and separate leaf.

Calyx quinquedentate. *Petals* caducous, concave at the end. *Germen* ovate, bilocular, with 2 embryo seeds in each cell. *Obs.* 6058.

HEDERA. Schoepf 28.

200. BOTRIA.

Calyx quinquecrenate. *Petals* 5. *Style* none. *Berry* unilocular, monospermous. *From Lour.*

1. BOTRIA *africana*. *Lour.* i. 191.

201. AEGICERAS.

Calyx quinquefid. *Petals* 5. *Capsule* bowed, unilocular, univalve, monospermous. *L. a Willd. Gaertn.*

1. AEGICERAS *majus*. Leaves veined. Capsules cylindric. *From L. a Willd.* i. 1183. *Gaertn.* i. 216. *t.* 46. *f.* 1. Capsules acute.

Rhizophora corniculata. *L. sp.* 635.

(Mangium floridum. *Rumph.* iii. 125. *t.* 83, is represented with capsules attenuate and very slightly curved, and with calyces as if minutely imbricate.)

MANGIUM fruticans corniculatum. *Rumph.* iii. 117. *t.* 77.

2. AEGICERAS *minus*. Leaves mostly without veins. Capsules attenuate. *From L. a Willd.* i. 1184, *and Rumph.—Gaertn.* i. 216. *t.* 46. *f.* 1.
UMBRACULUM maris. *Rumph.* iii. 124. *t.* 82.

202. LAGOECIA.

Calyx superior, pentaphyllous. *Petals* with 2 horns. *Seed* 1. *From L. & Juss.*

1. LAGOECIA *cuminoides*. *L. sp.* 294. *Hort. kew.* i. 283. *Sibth. prodr. n.* 563.
Lagoecia. *L. ups.* 52.
Cuminoides vulgare. *Boerh.* i. 132.
Cuminum sylvestre Dioscoridis. *Lob. adv.* 330, *cop. in ic.* i. 743, &
Cuminum silvestre primum, valde odoratum, globulosum. *Bauh. J.* iii. *a.* 23, *and Lob. ic. repr. in*
Cuminum sylvestre. *Dod.* 298, *and Ger. by Johns.* 1067, & *cop. in Park. theatr.* 372. *Raii hist.* 402, *Cam. epit.* 518.
Cuminum sylvestre I. *Dalech.* 697.
AMMI veterum. *Linn.* 80.
Cuminum sylvestre. *Dale* 112.

203. MUZA.

Calyx diphyllous; lower phyllum quinquedentate; upper entire. *Berry* trilocular. *Obs.* 5362. *Obs.* 8569, from M. coccinea.

Musa. *L. Browne* 364.

1. MUSA *paradisiaca.* Spadix nodding. Abortive flowers permanent. *L. sp.* 1477. *Hort. kew.* iii. 421.

Musa fructu cucumerino longiori. *Boerh.* ii. 171.

Musa. *Rumph.* v. 125. *t.* 60. *Munt. phyt.* 2. *t.* 4. 5. *Garcin in phil. trans. abr. by Reid and Gray* vi. *part* ii. 235. *t.* 6. *at p.* 252. *f.* 75. *n.* 1. 2. 3; *and by Hutt.* vii. 422. *t.* 11. *f.* 9. 10. 11. Berry described and figured as trilocular.—*Clus. exot.* 229.

Musa caudice viridi, fructu longiore falcato anguloso. *Sloane cat.* 189; *hist.* ii. 141. Plaintain-tree.—*Trew. select.* 3. *t.* 18. 19. 20.

Musa Serapionis, et Musa fructus. *Lob. obs.* 639, *repr. in ic.* ii. 236, *and Ger. by Johns.* 1515, *cop. in*

Musa arbor cum fructu. *Dalech.* 1839, *and Bauh. J.* i. *a.* 148; *and* the whole plant *cop. in*

Musa arbor. *Park. theatr.* 1496. *Raii hist.* 1374.

Musae fructus exactior icon. *Ger. by Johns.* 1516. *cop. in*

Musae arboris fructus. *Park. theatr.* 1496.

Ficus indica Linschottani. *Bauh. J.* i. *a.* 151.

Muza. *Stap.* 352.

Bala. *Rheede* i. 17. *t.* 12. 13.

Plantine. *Ligon* 80. *t.*

Pacoeira. *Marcgr.* 137, *repr. in Pis. ind.* 154, with fruit added; *& in*

Bacoba. *Pis. bras.* 75.

Musa, seu Ficus indica. *Clus. exot. ed.* ii. 283. No fig.

Musa arabum. *Bosischen garten.* 37. *t.*

Mauz, seu Musa. *Alpin. aegypt. fol.* 32. *p.* 2. *t.* 33.

Stamina inserted into the receptacle, the 5 perfect ones at the base of the longer phyllum, the 6th barren one at the base of the shorter phyllum. *Obs.* 5362. Specimen gathered in the Gottingen garden. I suspect it will prove to be a variation of *M. Bihai* or some other wild plant, which from having been long cultivated by suckers has lost its power of producing perfect seeds.

MUSA. Dale 273.

Musa paradisiaca. *Bryant* 202. *Clark, James in med. facts* vii. 305. *Forst. G. escul.* 28. *Pearson, R.* i. 64. *Wright in med. journ.* viii. 272.

Banana. *Cook in Hawkesw.* iv. 344. *Graing.* 40. 84.

2. MUZA *sapientum.* Spadix nodding. Abortive flowers deciduous. Spathae oblong, rather obtuse. Fruit elliptic. *L. a Willd.* iv. 894, from authors; *sp.* 1477. *Hort. kew.* iii. 421. *Swartz. obs.* 382.

Musa simiarum. *Rumph.* v. 138. *t.* 61?

Bananiera. *Pis. ind.* 154.

Bala. *Rheede* i. *t.* 14.

The Banana tree. *Hughes* 184. *t.* 16.

Bonano. *Ligon* 81. *t. at p.* 82.

Musa caudice maculato, fructu recto rotundo breviore odorato. *Sloane cat.* 192; *hist.* ii. 147. *Trew select.* 4. *t.* 21. 22. 23. *Boerh.* ii. 171.

BANANA. Dale 273. *Raii hist.* 1375.

Musa sapientum. *Bryant* 204. *Pearson, R.* i. 64. *Wright in med. journ.* viii. 272.

3. MUZA *troglodytarum.* Spadix erect. Spathae deciduous. *L. sp.* 1478, probably from

MUSA uranoscopos. *Rumph.* v. 137. *t.* 61.

4. MUZA *Bihai.* Spadix erect. Spathae permanent. *L. sp.* 1477, probably from authors.

Musa spadice erecto, spathis rigidis amplexantibus distiche et alternatim sitis. *Browne* 364. Corolla as in M. paradisiaca. Stamina 5, inserted into the lower part of the petal, with the rudiment of a sixth inserted into the nectarium. Stigma acute. Berry trilocular. Seeds solitary.—Hence I conclude the Wild Plantane-tree of Jamaica to be a species of Muza whatever was the plant intended by Linnaeus for Musa Bihai of sp. pl.

Musa humilior foliis minoribus nigricantibus, fructu minimo erecto. *Sloane cat.* 193.

Heliconia Bihai. *H. K.* i. 284, may be the plant, but it had not then flowered.—(*L. mant.* 211, if from the specimen whence the generic description at p. 147 was formed, must be a distinct plant.—*Swartz. obs.* 96 cannot be the plant described by Browne though Browne is cited.)

MUSA troglodytarum. *Wright in med. journ.* viii. 272.

204. ILLECEBRUM.

Calyx pentaphyllous. *Corolla* none. *Stamina* 5, united below, or inserted into the calyx. *Style* 1. *Capsule* with 1 seed, with 5 valves. *Obs.* 6513. *Juss.* 88. *L.*

Those species in which the stamina are inserted into the calyx, as *I. Paronychia* and *capitatum*, seem to be generically distinct, forming the link of connexion between *Illecebrum* and *Herniaria.*

1. ILLECEBRUM *sanguinolentum.* Frutescent. Leaves

opposite. Spikes compound, compact. *L. a Murr.* 248.

Achyranthes sanguinolenta. *L. sp.* 294.

VERBENA rubra. *Rumph.* vii. 60. *t.* 27. *f.* 2. In Java.

2. ILLECEBRUM *sessile.* Stems creeping, with a tomentose line on opposite sides. Leaves lanceolate, nearly sessile. Heads oblong, glabrous. *L. a Murr.* 249; *sp.* 300; *mant.* 345. *H. K.* i. 291.

Amaranthus humilis, foliis oppositis, flosculis ex alis glomeratis. *Burm. J. zeyl.* 17. *t.* 4. *f.* 2.

Coluppa. *Rheede* x. 21. *t.* 9.

Amaranthoides humile maderaspatanum, capitulis candicantibus, folio molli. *Pluk. alm.* 27; *phyt. t.* 133. *f.* 1, has some capitula on peduncles.

Calyx compressed; phylla 5, ovate, incumbent. *Filaments* united below, triangulari-subulate above, the distinct parts rather longer than the united part. *Capsule* compressed, obcordate, apparently valvular. *Style* very short. *Seed* 1, compressed; one of the lobes acute, the sinus uppermost. *Obs.* 6513. Specimen gathered in the Paris garden.

OLUS SQUILLARUM. Rumph. vi. 37. *t.* 15. *f.* 1.

205. POLIUM.

Calyx decaphyllous. *Corolla* none. *Capsule* superior, unilocular, trivalve, polyspermous. *Lour.*

Polia. *Lour.* a name too similar in sound and orthography to Pohlia and Pollia.

1. POLIUM *arenarium.*

Achyranthes corymbosa. *L. a Murr.* 246; *sp.* 296; *a Willd.* i. 1196.

Elichryso affinis herba indica polygonoides ramosior, foliolis caulium nodos ambientibus, coma paleacea, flore albo lituris aureis striato. *Pluk. alm.* 134; *phyt. t.* 86. *f.* 6.

Amaranthus folio tenuissimo incano mollugini aemulante. *Boccon. mus.* 44. *t.* 39.

(Paronychia foliis ad genicula confertis acutis, floribus umbellatis. *Burm. J. zeyl.* 184. *t.* 65. *f.* 2, accords with the figures of Pluk. and Boccone, but is described as having a single triquetrous seed. The calyx is described as pentaphyllous, the corolla pentapetalous, and the petals as roundish and minute.)

POLIA arenaria. *Lour.* i. 204.

206. HERNIARIA.

Calyx quinquepartite. *Corolla* none. *Stamina* inserted into the calyx. *Style* very short, or none. *Stigma* 1 or 2. *Arillus* with 1 seed. *Obs.* 6518. *L.*

1. HERNIARIA *glabra.* Stem herbaceous, microscopically pubescent on one side; hairs decurvate. *Obs.* 7450. In Mr. Knowlton's garden.—*L. sp.* 317. *Bot. arrang.* 250. *Smith engl. t.* 206; *brit.* 271. *Bauh. J.* iii. 378. *Fl. dan. t.* 529. *Tourn. paris.* 96. *Vaill. paris.* 101.

* *glabrifolia.* Leaves glabrous. *Obs.* 7451. Specimen gathered between Ostend and Paris.

Herniaria. *Dod.* 114, *repr. in Ger. by Johns,* 569. *Raii syn.* 160. On the Lizard point Cornwall.

Leaves oblong, oval, and lanceolato-oblong, lower opposite, upper mostly alternate. *Stipulae* ovate, ciliate, membranaceous, whitish, 2 at the base of each petiole. *Calyx*, segments oblong, with 1 or 2 hairs at the end, with a filiform process from each sinus. *Germen* microscopically tuberculate. *Style* very short, emarginate. *Arillus* oval, somewhat longer than the calyx, inflated, whitish, semitransparent. *Seed* orbicular, rufous, vertical. *Obs.* 6518. Specimen gathered in the Paris garden.

HERNIARIA glabra. Chom. 247; *suppl.* 83. *Geoffr.* iii. 558.

Herniaria. *Berg.* 174. *Dale* 78. *Krock. n.* 368. *Linn.* 83. *Mill. Jos.* 230. *Murr.* iv. 331. *Spielm.* 562. *Vog.* 103.

2. HERNIARIA *hirsuta.* Stem herbaceous, hirsute; hairs horizontal. *Obs.* 7280. In Mr. Knowlton's garden.—*L. sp.* 317. *Bot. arrang.* 250. *Bauh. J.* iii. 379. *Dill. ap. R. syn.* 161, on the authority of Buddle's herbarium.—*Tourn. paris.* 161. *Vaill. paris.* 101. *Huds.* 109. Colney-Hatch near Barnet.—*Smith brit.* 272; *engl. t.* 1379. *Raii hist.* 214, in Brabant, Germany, the south of France, and Italy.

Herba Turca, H. multigrana serpilli facie. *Lob. adv.* 180, *cop. in*

H. vulgaris. *Park. theatr.* 447.

Calyx quinquefido-quinquepartite; segments oblong, unequal. *Stamina* 5, inserted into the calyx at the base of the segments, very short. *Antherae* roundish, buffcoloured. *Germen* superior, ovate, microscopically tuberculate. *Style* very short. *Stigma* simple, scarcely broader than the style. *Obs.* 6516. Specimen gathered in the garden of

Pitcairn.—*Calyx*, no filiform processes between the segments. *Style* very short. *Stigma* simple. *Arillus* semitransparent, oval. *Seed* 1. *Obs.* 6520. Specimen gathered in the Paris garden.—*Root* perennial. *Stem* perennial. *Leaves* oblongo-lanceolate. *Stamina* 3. *Obs.* 7280.—I have never observed the leaves oval.

HERNIARIA hirsuta. *Chom.* 247; *suppl.* 83. *Geoffr.* iii. 560.

Herniaria. *Spielm.* 563.

207. ACHYRANTHES.

Calyx pentaphyllous. *Corolla* quinquepartite, minute. *Stamina* inserted into the sinuses of the corolla. *Style* 1. *Capsule* with 1 seed. *Obs.* 6966. 6512. 6511. *Juss.* 88. *L.*

1. ACHYRANTHES *ellipticifolia.* Flowers deflex. Leaves elliptic, hirsutulous. *Obs.* 6512. Specimen gathered by Broughton in Jamaica?

Achiranthes foliis ovatis, floribus spicatis, appendicibus bisetis. *Browne* 180?

Spikes terminal. *Flowers* solitary. *Bracteae* 3, at the base of each flower. *Calyx*, phylla 5, ovato-lanceolate; ribs indistinct. *Corolla* quinquepartite, segments oblong, ciliate. *Filaments* inserted between the segments of the corolla. *Style* filiform. *Stigma* simple. *Arillus* monospermous. *Obs.* 6512.—*Leaves* rhombeo-elliptic, and elliptic, nearly glabrous. *Calyx*, phylla 5, ovato-lanceolate, just sensibly shorter than those of 6512, slightly unequal, the inner gradually shorter; ribs indistinct. *Obs.* 6967. Specimen gathered in the Paris garden.

AURICULA CANIS mas. *Rumph.* vi. 27. *t.* 12. *f.* 1. Spike 1 and 2 feet long.

2. ACHYRANTHES *obovatifolia.* Flowers deflex. Leaves obovate. *Obs.* 6966. In Mr. Shore's garden raised from seeds from the Calcutta garden.

A. indica. *Mill. Ph. dict. n.* 2, who raised it from seeds received from Malabar.—*Roth catal.* i. 40.

A. aspera indica. *L. sp.* 295; *mant.* 344. *Hort. kew.* i. 286.

A. aspera. *L. a Murr.* 246; *a Willd.* i. 1191.

A. caule erecto, foliis obverse ovatis undulatis, floribus reflexis. *Mill. Ph. ic.* 8. *t.* 11. *f.* 2.

Amaranthus spicatus zeylanicus, foliis obtusis, amarantho siculo Bocconi similis. *Burm. J. zeyl.* 16. *t.* 5. *f.* 3.

Stem villose, branched, erect. *Branches* patent, straight. *Leaves* opposite, sometimes in threes, with a slightly prominent angle at the end, pubescent, thin, entire at the margin. *Petioles* very short. *Peduncles* villose. *Flowers* sessile, deciduous. *Bracteae* 3, one third shorter than the calyx, membranaceous, rigid, whitish, ending in subulate pink-coloured spines, the innermost ovato-cuneiform, and remaining attached to the peduncle, the 2 outer ovate, the sides readily parting from the costa which is lengthened out into a spine, attatched to and falling off with the calyx. *Calyx* always closed; phylla rigid, green, membranaceous and whitish at the margin, the outer rather broader. *Corolla* minute, shorter than the breadth of the calyx, campanulate, quinquepartite, fleshcoloured white, very delicate; segments oblong, ciliate and pink at the end; ciliae white. *Stamina* 5, inserted into the sinuses of the corolla. *Filaments* subulate, half as long again as

the segments of the corolla, purplish pink. *Germen* turbinate, greenish. *Style* filiform, erect, pink. *Stigma* roundish. *Obs.* 6966.

CADELARI. Rheede x. 155. *t.* 78.

3. ACHYRANTHES *prostrata*. Stems prostrate, fruticose. Spikes oblong. Flowers 2 together, with a fasciculus of hooked bristles. *L. sp.* 296; *a Willd.* i. 1194.

Cyathula geniculata. *Lour.* i. 124.

Scheru-cadelari. *Rheede* x. 157. *t.* 79.

(Verbena indica. *Bont.* 150, has spikes imbricated upwards.)

AURIS CANINA femina. *Rumph.* vi. 26. *t.* 11.

4. ACHYRANTHES *lappacea*. Stem fruticose, diffuse. Leaves nearly glabrous, ovate, acute, attenuate at the base. Spike interrupted. The 2 lateral flowers with a compound fasciculus of uncinate hairs on each side. *Obs.* 6511. Specimen gathered in Fothergill's garden.—*L. a Willd.* i. 1192; *sp.* 295; *a Murr.* 246. *Hort. kew.* i. 286.

Achiranthes caule geniculato erecto, foliis ovatis oppositis, spicis terminatricibus, appendicibus multisetis. *Browne* 180.

Centaurium ciliare minus, circeae foliis firmioribus, spicatis floribus. *Pluk. alm.* 93; *phyt. t.* 82. *f.* 2.

Blitum scandens, fructu lappaceo. *Burm. J. zeyl.* 47. *t.* 18. *f.* 1, but stem and peduncle represented as aculeate.

Flowers 3 together. *Bracteae* ovate, 3 at the base of each fasciculus of flowers. *Fasciculi of hooks* compound, dichotomous and branched, each com-

posed of from 2 to 4 fasciculi, with a bractea below the division into branches, somewhat analogous to the involucra of Cynosurus, and to be considered as a rachis in the dichotomy of which is placed a sessile flower. *Calyx*, phylla 5, slightly woolly on the outside, greenish, with 3 ribs, lanceolate. *Stamina* united below. *Filaments* triangulari-subulate, without any segment between each. *Style* as long as the germen. *Stigma* capitate. *Obs.* 6511.
WELLIA-CODIVELI. *Rheede* x. 117. *t.* 59.

5. ACHYRANTHES *muricata*. Flowers patulous, remote, ovate. Leaves alternate. Calyces squarrose. Stem fruticose, with patulous branches. *From L. sp.* 295; *mant.* 344; *a Murr.* 246. *Hort. kew.* i. 286.
BLITUM spinosum. *Rumph.* v. 234. *t.* 83. *f.* 2.

208. CELOSIA.

Calyx pentaphyllous. *Corolla* semiquinquefid. *Stamina* terminating the alternate segments of the corolla. *Capsule* cut-round, with several seeds. *Obs.* 6507. *Juss.* 88. *L.*

1. CELOSIA *argentea*. Spikes scariose. Leaves lineari-lanceolate. Stipulae subfalcate. *From L. a Willd.* i. 1197; *sp.* 296, *and Royen.—Hort. kew.* i. 287.
C. foliis lineari-lanceolatis. *Royen* 419.
Tjeria-belutta-adeka-manjen. *Rheede* x. 77. t. 39. Spikes whitish and pale purplish.

CELOSIA argentea. *Lour.* i. 203. Leaves tomentose underneath.

2. CELOSIA *margaritacea.* Spikes scariose. Leaves lanceolate. *Obs.* 6507. Specimen gathered in the Paris garden.—*L. sp.* 297; *mant.* 344. *Mill. Ph. dict. n.* 1. From America.

C. foliis lanceolato-ovatis. *L. cliff.* 43.

Amaranthus spica albescente habitiore. *Mart. rar.* 7. *t.* 7.

Amaranthus spicatus argenteus americanus. *Boerh.* ii. 98.

Amaranthus spica longa candidissima, spicae foliis, maderaspatanus. *Pluk. alm.* 26; *phyt. t.* 118, *f.* 2.

Belutta-adeça-manjen. *Rheede* x. 75. *t.* 38. Flowers whitish, and pale reddish purple.

Glabrous. *Leaves* alternate, with young shoots in the axillae. *Stipulae* none. *Spikes* terminal, ovate, shining, whitish. *Bracteae* 3, at the base of each flower, scariose, one third shorter than the calyx, ovato-lanceolate. *Calyx* scariose; phylla lanceolate, with 3 greenish ribs at the base. *Stamina* monadelphous. *Filaments* forming a quinquefid cup of an uniform texture, whitish, semitransparent, half as long as the calyx; segments triangular, subulate above, with a short acumen in the middle of each sinus. *Antherae* oblong. *Pistil* somewhat shorter than the corolla. *Germen* ovate. *Style* filiform. *Stigma* roundish, depressed. *Capsule* cut-round, with several seeds. *Obs.* 6507.

CELOSIA margaritacea. *Lour.* i. 203. Leaves described as opposite, and the spikes tawny.

3. CELOSIA *cristata*. Style simple. Leaves ovate and elliptic. Lateral bracteae with an arista from below the end. *Obs.* 6553. In a garden.—*L.* —*Hort. kew.* i. 287. *Mill. Ph. dict. n.* 2.

AMARANTHUS. Schrod. 531.

Amarantus. *Rumph.* v. 236.

C. castrensis. *Lour.* i. 202.

α *simplex*. Spikes simple. *From*

Amaranthus simplici panicula. *Bauh. Casp. phytop.* 193; *pin* 121.

Amaranthus. *Matth.* 1047. *Lob. obs.* 126, *repr. in*

Amaranthus purpureus saturo coccineo. *Lob. ic.* i. 250, *&*

Amaranthus purpureus. *Ger. by Johns.* 322. *Dalech.* 871. *Bauh. J.* ii. 968, *cop. from, &*

Circaea. *Trag.* 579, *which repr. in*

Amarantus purpureus. *Cord. fol.* 168. *p.* 1, *imit. from Fuchs. fol. ed.* 100. *Dod.* 185, *repr. in*

Amarantus purpureus saturo cocci colore. *Dod.* 607; *ed.* ii. 618,

Amaranthus angustifolius simplici spicata pannicula. *Lob. obs.* 126; *& ic.* i. 251, *cop. in*

Amaranthus angustifolius. *Dalech.* 871, *and repr. in*

Amaranthus coccineus. *Ger. by Johns.* 322.

β *composita*. Spike compound, terete, acuminate. *From*

Amaranthus spicatus. *Besl. hort. aut. ord.* 2. *fol.* 8. *f.* 1.

Amaranthus purpureus major. *Tab. ic.* 433, *repr. in*

Amaranthus. *Matth. a Casp. Bauh.* 737. *Cam. epit.* 791.

γ *fastigiata*. Spike compound, flatted, fastigiate. *Obs.* 6553.

Amarantus vulgaris. *Rumph.* v. 238. *t.* 84, who says he has been led to think that all the species of Amaranthus are only varieties.

Amaranthus cristatus. *Besl. hort. aut. ord.* 2. *fol.* S. *f* 2. *Cam. epit.* 792, *cop. in*

Amaranthus pannicula incurva. *Matth. a Casp. Bauh.* 737. inner fig.—outer fig.—*Bauh. Casp. phytop.* 193; *pin.* 121.

Amaranthus holosericeis sanguineis reticulatis floribus, hilariore aspectu. *Lob. obs.* 126, *repr. in*

Amaranthus holosericeis sanguineis reticulatis floribus. *Lob. ic.* i. 252, *&*

Amaranthus pannicula incurva holosericea. *Ger. by Johns.* 323, *& cop. in*

Amaranthus holosericeus. *Dalech.* 871, *&*

Amaranthus coccineus. *Park, parad.* 371. *t.* 372, *f.* 4.

Blitum indicum. *Tab. ic.* 432.

Stem 3 feet long, sulcate, below terete, upwards compressed, with lateral branches. *Branches* about as long as the leaves, shorter than the stem, terete, striate. *Leaves* ovate, acute. *Racemi* spikelike, terminal, rosecoloured, staining paper of a rosecolour, that terminating the stem compound, semicircular, compressed, from 1 to 4 inches broad; those terminating the branches oblong, acuminate, terete, the lower shorter than the peduncles, the uppermost nearly sessile. *Pedicles* very short. *Bracteae* 3 to each flower, lanceolato-ovate, acute, the lowermost at the base of the pedicle, the 2 lateral ones at the base of the calyx, one third shorter than the calyx; arista one fourth as long as the bracteae. *Calyx*, phylla lanceolato-oblong, with an acute point, 2 tenths of an inch long, fleshcoloured with a rosecoloured streak

along the middle. *Stamina* one fourth shorter than the calyx, whitish, united below into a decemdentate cup, the alternate teeth extended into subulate filaments. *Pollen* white. *Pistil* a little longer than the calyx. *Capsule* polyspermous. *Seeds* shining, black. *Obs*, 6553.

209. GOMPHRENA.

Calyx pentaphyllous. *Stamina* united below. *Style* bifid. *Capsule* cut-round, monospermous. *Obs.* 5135. *Juss.* 88. *L.*

1. GOMPHRENA *globosa*. Heads solitary, with 2 leaves. Leaves entire at the margin, lanceolate and oblong. *Obs.* 5135. From a garden.—*L. sp.* 326; *mant.* 348. *Hort. kew.* i. 318.

Amarantho affinis indiae orientalis, floribus glomeratis, ocymoidis folio. *Commelin. hort.* i. 85, *t.* 45. *Breyn. Jac. cent.* 109. *t.* 51.

Wadapu. *Rheede* x. 73. *t.* 37.

Bracteae 3 to each flower, scariose, the lowermost ovate, acute, shorter than the calyx; the 2 lateral ones lanceolate, carinate, twice as long as the calyx. *Calyx* very woolly on the outside, rigid, closing on the seed; phylla lanceolate. *Stamina* united below into a tube; tube quinquefid, investing the pistil; segments bifid. *Filaments* 5, very short, from the fissures of the segments. *Obs*, 5135.

FLOS GLOBOSUS. Rumph. v. 289. *t.* 100. *f.* 2.

2. GOMPHRENA *vermicularis*. Stems creeping. Leaves nearly terete, fleshy. Heads solitary, ter-

minal, oblong. *Swartz. obs.* 101. *L. sp. ed.* i. 224.

Illecebrum vermiculatum. *L. sp.* 300.

G. repens rufescens, foliis linearibus crassiusculis, capitulis alaribus. *Browne* 184.

Amaranthoides humile curassavicum, cepae foliis lucidis, capitulis albis. *Herm. parad.* 15. *t.* 15. *Pluk. alm.* 27; *phyt. t.* 75. *f.* 9.

PEREXXIL. Marcgr. 14, *repr. in*

Caaponga I. *Pis. ind.* 243.

3. GOMPHRENA *hispida.* Stem erect. Heads with 2 leaves. Leaves crenate. *L. sp.* 326.

MIN-ANGANI. Rheede ix. 141. *t.* 72.

210. CERATONIA.

Calyx quinquefid. *Corolla* none. *Filaments* 5 to 7, much longer than the calyx. *Germen* surrounded by an orbicular gland. *Legumen. Obs.* 3275. *L.*

Flowers sometimes diecious with imperfect stamina or pistil. *Juss.*

1. CERATONIA *inermis.* Unarmed. *From*

C. Siliqua. *L. a Gmel.* ii. 431; *sp.* 1513. *Hort. kew.* iii. 449.

Siliqua. *Cam. epit.* 139.

Ceratonia. *Dod.* 775, *cop. in Dalech.* 112, *and repr. in*

Ceratia siliqua, sive Ceratonia. *Ger. by Johns.* 1429, *& cop. in*

Siliqua dulcis vulgatior. *Park. theatr.* 236.

Siliquae arbor, sive Ceratia. *Bauh. J.* i. *b.* 413, the racemus and fruit *cop. in*

Flores et fructus Siliquae dulcis vulgaris. *Park. theatr.* 236.

Flowers hermaphrodite. *Stamina* 7, inserted into the calyx. *Obs.* 3275. Specimen from Prof. Jos. F. Jacquin.

CERATONIA Siliqua. *Bryant* 309.

Siliqua dulcis.—*Pharm. austriaco-prov.* 68.—*Berg.* 836. *Cartheus.* ii. 183. *Dale* 340. *Herm.* 404. *Lew. disp. by Dunc.* 340. *Linn.* 269. *Murr.* ii. 434. *Vog.* 263.

Siliquae dulces. *Spielm.* 465.

Siliqua edulis. *Rutty* 485.

Siliqua. *Alst.* ii. 317.

Carob. *Neum.* ii. 223.

211. RAUVOLFIA.

Drupe dispermous. *Nuts* bilocular. *Corolla* infundibuliform. *From L. a Schreb. L.*

1. RAUVOLFIA *canescens*. Leaves in fours, lanceolate, pubescent above, tomentoso-villose underneath. Flowers corymbose. *Obs.* 8683. Specimen gathered by Broughton in Jamaica.—*L. sp.* 303; *a Willd.* i. 1218. *Jacq. amer.* 8vo, 61.

R. subpubescens. *L. mant.* 345.

R. hirsuta. *Jacq. amer.* 47.

R. tetraphylla latifolia. *Plum. a Burm.* 232. *t.* 236. *f.* 2.

Solani fructu fruticosa, foliis laurinis oblongis integris subtus hirsutis, flore minore purpureo. *Sloane cat.* 173; *hist.* ii. 107. *t.* 188. *f.* 1, no fructifica-

tions, leaves in fives; *t.* 211. *f.* 1. *Raii dendr.* 75, leaves opposite.

(Arbor sycophora jamaicensis, foliis minoribus. *Pluk. alm.* 42; *phyt. t.* 243. *f.* 4, has alternate leaves;—*t.* 266. *f.* 2, has opposite leaves.)

RAUVOLFIA. Browne 180.

212. PAEDERIA.

One of the Contortae. *Berry* empty, brittle, with 2 seeds. *L.*

1. PAEDERIA *foetida.* Stamina inclosed. *L. a Willd.* i. 1219; *mant.* 52. *Retz. obs.* i. 13. *n.* 23, who describes the flowers as sessile and yet racemose!

CONVOLVULUS foetidus. *Rumph.* v. 436. *t.* 160.

213. CARISSA.

Calyx inferior, quinquepartite. *Corolla* infundibuliform; limb quinquepartite. *Stigma* simple, *Berry* bilocular; cells with from 2 to 4 seeds. *From L. Roxb. & Forsk.*

1. *Spinose.* L. a Willd.

1. CARISSA *Carandas.* Leaves veined. Segments of the corolla lanceolate. *From L. a Willd.* i. 1219; *a Murr.* 251; *mant.* 52. 560; *& Roxb. corom.* i. 55. *t.* 77. *Lour.* i. 153.

Lycium malabaricum, subrotundis pyrolae densiori-

bus foliis. *Pluk. alm.* 235; *phyt. t.* 305. *f.* 4. Corolla quadrifid.

CARANDAS. Garcias ap. Clus. exot. 227. No fig.—*Rumph.* vii. 57. *t.* 25.

2. CARISSA *edulis.* Leaves veinless. Segments of the corolla lanceolato-linear. *From Vahl. symb.* i. 22.

ANTURA. Forsk. 63; *p.* xciii.

214. CERBERA.

One of the Contortae. *Drupe* with 1 and 2 nuts. *From L.*

1. CERBERA *linearifolia.* Leaves lanceolato-linear, crowded. *Obs.* 8687. Specimen gathered by Broughton in Jamaica.

C. Thevetia. *Jacq. amer.* 48. *t.* 34. *L. sp.* 304. *Mill. Ph. dict. n.* 2. *Swartz. obs.* 102. *Hort. kew.* i. 293.

Thevetia. *L. cliff.* 76 *α*

Plumeria arborescens, foliis lanceolatis, floribus fauce ampliatis subcampanulatis. *Browne* 181.

Nerio affinis angustifolia lactescens, flore luteo, americana. *Pluk. alm.* 263; (misprinted 253,) *phyt. t.* 207. *f.* 3.

Ahovai nerii folio, flore luteo. *Plum. a Burm.* 10. *t.* 18, the parts of fructification *cop. in*

Ahouai. *Tourn. inst. t.* 434.

CERBERA Thevetia. *Jacq. amer.* 8vo, 62.

2. CERBERA *Manghas.* Leaves lanceolate, with

transverse ribs. *L. sp.* 303. *Osb. trav.* i. 138. *Mill. Ph. dict. n.* 3.

Arbor lactaria. *Rumph.* ii. 243. *t.* 81.

Oda lam. *Rheede* i. 71. *t.* 39, a branch *cop. in*

Tavaracare malabarica, flore albo, folio nerii latiore. *Pet. gaz.* 24. *t.* 16. *f.* 4.

Manga fructu venenato, ossiculo cordiformi nucleo gemino. *Raii hist.* 1552.

(Manghas lactescens, foliis nerii crassis venosis, jasmini flore, fructu persicae simili venenato. *Burm. J. zeyl.* 150. *t.* 70. *f.* 1, has a campanulate upright calyx four times shorter than the tube of the corolla.

Mangas Acostae. *Dalech.* 1870, has simple racemi.)

MANGAS bravas. *Acosta ap. Clus. exot.* 284.

3. CERBERA *Ahovai.* Leaves ovate, acute. *L. a Willd.* i. 1222, from authors;—*sp.* 303. *Mill. Ph. dict. n.* 1. *Donn* 51.

Thevetia. *L. cliff.* 75.

Arbor america, foliis pomi, fructu triangulo. *Bauh. Casp. pin.* 434.

Ahovai Theveti. *Raii hist.* 1676. *Clus. in Garc. ap. Clus. exot.* 232, *which repr. in*

Ahouay Theveti. *Lob. obs.* 604; *ic.* ii. 186, *and Ger. by Johns.* 1545, *and cop. in Tab. ic.* 922, *Dalech.* 1844, *&*

Ahovai, fructus venenatus. *Bauh. J.* i. *a.* 337, lower fig. the empty drupes.—Upper fig. a branch *cop. from*

Ahovai. *Dalech.* 1843, in fruit.

AHOAY-GUACU. Pis. ind. 308, inner fig. cop. from Clus.—outer fig. in fruit;—*bras.* 49. No fig.

4. CERBERA *salutaris*. Leaves oval. *From Lour.* i. 168.
LACTARIA salubris. *Rumph.* ii. 255. *t.* 84.

215. CANTHIUM.

Germen inferior. *Calyx* quinquefid and quadrifid. *Corolla* infundibuliform, quinquefid and quadrifid. *Stamina* 5 and 4, shorter than the corolla. *Stigma* capitate. *Berry* with 2 cells. *Seeds* solitary. *From Lamarck in Juss. Roxb.* &
Webera. *L. a Schreb.* 794.
Chomelia. *L. gen. ed.* ii. *n.* 167.

1. CANTHIUM *corymbosum*.— Without spines. Leaves oblong, acute. Corymbus terminal. *Willd.*
Webera corymbosa. *L. a Willd.* i. 1224.
Rondeletia asiatica. *L. sp.* 244.
Frutex indicus baccifer, floribus umbellatis, fructu rotundo polyspermo. *Raii hist.* 1494, *from*
CUPI. *Rheede* ii. 37. *t.* 23, is described as having berries containing 7 and 8 seeds.

2. CANTHIUM *parviflorum*. Spinose. Leaves ovate. *From Roxb. corom.* i. 39. *t.* 51. *Lamarck.*
Webera tetrandra. *L. a Willd.* i. 1224.
Lycium putatum indiae orientalis, capparis rotundioribus foliis, et aculeis adverso gemellis. *Pluk. alm.* 234; *phyt. t.* 97. *f.* 4. No fructifications.
Baccifera indica, flosculis ad foliorum extortum confertis, fructu dicocco. *Raii hist.* 1497; *from*
TJEROU-KARA. *Rheede* v. 73. *t.* 37. Segments of the calyx and corolla, and stamina 5.

216. GENIPA.

Germen inferior. *Calyx* entire. *Corolla* infundibuliform. *Antherae* sessile, inserted into the tube of the corolla. *Style* clavate. *Berry* bilocular, polyspermous. *From Tourn. Plum. and Juss. L.*

1. GENIPA *americana*. *L. sp.* 251.
Genipa. *Plum. a Burm.* 127. *t.* 136, the parts of fructification *cop. in Tourn. inst. t.* 436.
Gardenia Genipa. *Swartz. obs.* 84; *prodr.* 51.
JANIPABA. Pis. bras. 68, *repr. in ind.* 138, *and Marcgr.* 92; *and the descr. cop. in Raii hist.* 1667.

217. GARDENIA.

Germen inferior. *Calyx* with 5 divisions. *Corolla* infundibuliform and hypocrateriform, with from 5 to 9 segments. *Antherae* sessile, inserted into the tube of the corolla. *Style* clavate. *Berry* dry, with 1, 2, or 4 cells, polyspermous. *From L. fil. suppl.* 23. 468, & *Juss.* 201. *L.—Hort. kew.* i. 293.

1. *Unarmed.* L. a Murr.

1. GARDENIA *grandiflora*. Corolla hypocrateriform. Leaves lanceolate. Segments of the calyx vertical, falcate, reflex. Berries oblong. *From Lour.* i. 182.

2. GARDENIA *florida*. Corolla hypocrateriform. Leaves elliptic. Segments of the calyx vertical, straight. Berries ovate. *Obs.* 7791. In Renishaw garden.—*L. sp.* 305. 1679; *mant.* 346; *fil. suppl.* 163. *Hort kew.* i. 293.

GARDENIA florida. *Lour.* i. 183.

α *simplex*. Corolla single. *Hort. kew.* i. 293.

β *plena*. Corolla double.—*Hort. kew.* i. 293.

Jasminum foliis lanceolatis oppositis integerrimis, calycibus acutioribus. *Mill. Ph. ic. t.* 180.

Jasminum ramo unifloro pleno, petalis coriaceis. *Ehret. t.* 15, and another unpublished fig. in Mr. Knowlton's library.

Catsjopiri. *Rumph.* vii. 26. *t.* 14. *f.* 2.

Leaves opposite, dark green obscurely mottled with pale green. *Stipulae* solitary, intrafoliaceous, vaginant, the lower half becoming a part of the bark. *Flowers* terminal, solitary, nearly sessile. *Germen* obpyramidal, green, with 6 prominent acute angles. *Calyx* superior, cyathiform, sexpartite; segments subulate, compressed below, being extensions of the angles of the germen, trigonous at the end, patulous, somewhat longer than the germen; sinuses with 1 and 2 scariose triangular teeth. *Corolla* buffcoloured white, very double, of a peculiar rich fragrance. *Obs.* 7791.

3. GARDENIA *appendiculata*. Leaves elliptic. Corolla hypocrateriform. Calyx bursting on one side, with appendages. *From*

G. Thunbergia. *L. fil. suppl.* 162, & *Hort. kew.* i. 294.

LA BERGKIAS. *Sonner. nouv. guin.* 48. *t.* 17. 18.

2. *Spinose.* L. a Murr.

4. GARDENIA *esculenta.* Berry unilocular. Corolla rotate. Leaves fasciculate, ovate, pilose. Flowers crowded. *From*
GENIPA esculenta. *Lour.* i. 185.

218. ALLAMANDA.

One of the Contortae. *Capsule* lentilshaped, unilocular, bivalve, erect, echinate, polyspermous. *L.*

1. ALLAMANDA *cathartica.* *L. mant.* 214; *fil. suppl.* 165. *Curt. mag. t.* 338. *Hort. kew.* iii. 489.
ALLAMANDA. Linn. 81.

219. VINCA.

Corolla hypocrateriform; segments oblique. *Follicles* 2, erect. *Seeds* naked. *Obs.* 2705. *L.*

1. VINCA *parviflora.* Flowers pedunculate, in pairs. Leaves lanceolate. *From Retz. obs.* ii. 14. *Hort. kew.* i. 296.
V. pusilla. *L. fil. suppl.* 166.
CUPA-VEELA. Rheede ix. 61. *t.* 35.

2. VINCA *ellipticifolia.* Flowers on peduncles, solitary. Leaves glabrous, elliptic and oval. *Obs.* 2705. In a garden.
V. minor. *L.—Bot. arrang.* 248, Found by Mr. Woodward near Hampstead and in Earsham wood. —*Jacq. vind.* 34. In mountains behind Grin-

zing.—*Curt. lond.* iii. 16. *t.* 172. *Host.* 125. In barren mountainous situations.—*Walc. t. Asso n.* 213. *Lightf.* 147, found by Parsons in Coryton woods.—*Willd. berol.* 84, apparently spontaneous.—*Smith brit.* 270. On a bank near Honingham church Norfolk, and in several lanes in that parish.—*Relh. n.* 171. *Roth. germ.* i. 95. Throughout Germany.—*Sibth. prodr. n.* 569.

Pervinca vulgaris angustifolia. *Tourn. paris.* 218. *Garid.* 358.

Pervinca vulgaris angustifolia, flore caeruleo. *Vaill. paris.* 159. In the forest of Montmorency and in the woods of the Capuchins de Meudon.—*Boerh.* i. 311.

Clematis daphnoides. *Dod.* 401, *repr. in Lob. obs.* 360; *ic.* i. 635, *cop. in*

V. pervinca vulgaris. *Park. theatr.* 381, *&*

Clematis daphnoides minor flore caeruleo. *Bauh. J.* ii. 130, who observed it in the Euganean mountains, in Lombardy, Switzerland, and Burgundy; *& repr. in*

V. Pervinca minor. *Ger. by Johns.* 894, who does not speak of it as growing wild.—*Raii syn.* 268. In hedges and on ditch banks but rare.

Clematis daphnoides, sive V. pervinca simplex minor. *Park. parad.* 391, *t.* 395. *f.* 2. In many woods and orchards by the hedge sides.

V. Pervinca, sive Clematis daphnoides. *Lob. adv.* 282. In Germany, France, and Italy.

Native of Greece, Italy, Spain, France, Switzerland, and Germany, and if of Britain of the more southern counties. It is in general the outcast of gardens. Those who are acquainted with Coryton woods may best judge whether it is a native of Scotland.

VINCA Pervinca. *Berg.* 170. *Dale* 179. *Krock. n.* 365. *Linn.* 81. *Mill. Jos.* 451. *Murr.* i. 540. *Quarin animad.* 84. *Rutty* 536. *Spielm.* 396. *Vog.* 140.

Pervinca vulgaris. *Geoffr. suite* i. 365.

Pervinca vulgaris angustifolia. *Chom.* 568; *suppl.* 161.

3. VINCA *ovatifolia.* Flowers on peduncles, solitary. Leaves ciliate, ovate. *Obs.* 5729. Specimens gathered in the hedge of a cottage garden.

V. major. *L. sp.* 304. *Bot. arrang.* 249. *Smith brit.* 270; *engl. t.* 514. *Relh. n.* 172. *Sibth. ox.* 79. Magdalen College walks.—*Curt. lond.* iv. 19. *t.* 222. *Wale. t. Gouan hort.* 119. About Montpelier.—*Host* 125. In Friuli in hedges.

Pervinca major. *Scop. carn. n.* 274. *Lob. adv.* 282. Near Narbonne in Languedoc.

Pervinca vulgaris, latifolia, flore caeruleo. *Vaill. paris.* 159. *Boerh.* i. 311. *Garid. t.* 81, *at p.* 386.

Clematis daphnoides major. *Raii syn.* 268, found by Plot between Wolverton and Yarnton; by Richardson near Colchester; and by James Sherard between Knowlton and Deal, and in a lane between Foots Gray and Roe hill; *hist.* 1091; *europ.* 103. About Montpelier.—*Dod.* 401, *repr. in*

Clematis, sive Pervinca major. *Lob. obs.* 360; *ic.* i. 636;

Clematis daphnoides, sive Pervinca major. *Ger. by Johns.* 894, *& cop. in*

Clematis daphnoides latifolia, seu V. pervinca major. *Park. theatr.* 381.

Clematis daphnoides major flore caeruleo. *Bauh. J.*

ii. 132. In many parts of Spain, and the south of France.

Native of Spain, Friuli, and the south of France, and said to have been found in Kent, Essex, and the isle of Wight.

PERVINCA latifolia. *Geoffr. suite* i. 368.

Pervinca vulgaris latifolia. *Chom.* 568.

Vinca. *Dale* 179.

220. NERIUM.

Corolla infundibuliform, with a double limb; inner limb quinquepartite. *Follicles* 2, erect. *Seeds* plumose. *Obs.* 5913. *L.*

1. NERIUM *Oleander.* Leaves in threes. Phylla of the calyx squarrose. Segments of the inner limb of the corolla flat, trifid, *Obs.* 5913. In a garden.—*L. sp.* 305. *Hort. kew.* i. 296. *Mill. J. ill.* i. *t.* 12.

Leaves lanceolate. *Obs.* 5913.

α *roseum.* Corolla rosecoloured. *Obs.* 5914. Specimen gathered in the garden of Fothergill.—*H. K.* α

N. floribus rubescentibus. *Boerh.* ii. 316.

N. sive Oleander. *Raii hist.* 1767. *Ger. by Johns.* 1406, *repr. from*

Rhododendrum. *Dod.* 839, *which repr. in*

Nerion. *Lob. obs.* 199, *&*

Oleander, Laurus rosea. *Lob. ic.* i. 364, *and cop. in*

N. sive Rhododendron flore rubro. *Bauh. J.* ii. 140, *&*

Oleander flore rubro. *Park. theatr.* 1469. *Raii europ.* 189. On the side of mount Aetna.

NERIUM. Dale 339.
Nerion. *Geoffr. suite* i. 160.
Nerion floribus rubescentibus. *Chom.* 136.

2. NERIUM *odorum.* Leaves in threes. Phylla erect. Segments of the inner limb of the corolla multipartite; lacinulae filiform. *H. K.* i. 297.
OLEANDER sinicus. *Rumph.* vii. 15. *t.* 9. *f.* 1.

3. NERIUM *coronarium.* Leaves elliptic. Peduncles at the dichotomies of the branches, in pairs, biflorous. *Hort. kew.* i. 297. *Jacq. coll.* i. 138; *ic.* i. 5. *t.* 52.
Nandi-Ervatam minor. *Rheede* ii. 105. *t.* 55.
β *plena.* Corolla double. *From*
Nandi-Ervatam major. *Rheede* ii. 105. *t.* 54.
Jasminum zeylanicum folio oblongo, flore albo pleno odoratissimo. *Burm. J. zeyl.* 129. *t.* 59.
FLOS MANILHANUS. Rumph. iv. 87. *t.* 39.

4. NERIUM *antidysentericum.* Leaves oblongo-ovate. Panicles terminal. *Hort. kew.* i. 297. *L. sp.* 306; *mant.* 346. *Lour.* i. 142.
Nerium indicum, siliquis angustis erectis longis geminis. *Burm. J. zeyl.* 167. *t.* 77.
Codaga-pala. *Raii hist.* 1754, *from Rheede* i. 85, (where for 48 read 47,) *t.* 47.
CODAGA PALA. Geoffr. ii. 208. *Vog.* 293.
Conessi. *Lew.* i. 361. *Linn.* 82. *Monro* iii. 77.
Profluvii sive Conessi cortex. *Murr.* i. 541.
Conessi bark. *Med. ess.* iii. 30.
Tellicherry bark. *Lind hot clim.* 311. *Murr.* i. 552.

221. ECHITES.

One of the *Contortae*. *Follicles* 2, long, straight. *Seeds* pappose. *Corolla* infundibuliform; throat bare. *L.*

1. ECHITES *syphilitica*. Leaves ovate, nearly sessile, glabrous, costate. Panicles dichotomous. Flowers in spikes. *L. fil. suppl.* 167.

2. ECHITES *scholaris*. Leaves mostly verticillate, oblong. Follicles filiform, very long. Umbels compound. *L. mant.* 53.

LIGNUM SCHOLARE. *Rumph.* ii. 246. *t.* 82.

3. ECHITES *umbellata*. Peduncles umbellate. Leaves ovate, obtuse, mucronate. Stem twining. *L. sp.* 307. *Hort. kew.* i. 298. *Jacq. amer.* 30. *t.* 22, segments of the corolla represented as incumbent.

Apocynum scandens majus, folio subrotundo. *Sloane cat.* 89; *hist.* i. 207. *t.* 131. *f.* 2, described and figured as having a peduncle with a great many flowers.

Apocynum scandens foliis cordatis, flore albo. *Catesb.* i. *t.* 58.

Periploca alia, floribus amplis circinatis et crispis, radice bryoniae tuberosa. *Plum. a Burm. t.* 216. *f.* 2.

ECHITES. *Browne* 182.

4. ECHITES *costata*. Peduncles cymose. Leaves elliptico-lanceolate, acuminate. *Forst. G. austral. n.* 123

KAMETTI-VALLI. *Rheede* ix. 23. *t.* 14.

222. PLUMERIA.

Corolla infundibuliform; segments oblique. *Follicles* ventricose. *Seeds* with a membranaceous border. —*L.*

1. PLUMERIA *revolutifolia*. Leaves lanceolate, revolute at the margin. Pedicles bracteate. *Obs.* 8336. Specimen gathered by Dr. Wright in Jamaica.

P. alba. *Jacq. amer.* 36. *t.* 174. *f.* 12, a flower and follicle;—8*vo*, 46. *L. sp.* 306; *a Murr.* 254. *Hort. kew.* i. 299. *Mill. Ph. dict. n.* 3.

P. flore niveo, foliis longis angustis et acuminatis. *Plum. cat.* 20; *a Burm.* 227. *t.* 231.

(Apocynum americanum frutescens, longissimo folio, flore albo odoratissimo. *Commel. hort.* ii. 47. *t.* 24, with leaves not revolute, is rather P. obtusa, which is probably, as J. Burman conjectures, a white variety of P. rubra.)

Leaf lanceolato-oblong, petiolate. *Peduncle* longer than the leaf. *Panicle* terminal, compact, bracteate; primary branches very short; flowers aggregate; pedicles 6 times as long as the bracteae. *Bracteae* quadrato-ovate, shortly acuminate. *Calyx* superior, pentaphyllous, as long as the bracteae, twice as long as the germen, quadrato-ovate, carinate. *Corolla* twice and a half as long as the pedicles; tube slightly ventricose a little above the base, pubescent on the inside above the ventricose part; limb twice as long as the tube; segments oblongo-obovate, oblique. *Stamina* erect, inserted a little above the base of the tube, thrice as short as the tube of the corolla. *Filaments* very short. *Antherae* subulate, thrice as

long as the filaments. *Pistil* very short. *Obs.* 8336.

PLUMERIA alba. *Linn.* 82. *Schoepf* 29.

2. PLUMERIA *rubra.* Leaves ovali-elliptic. Petioles with 2 glands. *Obs.* 8335. Specimen gathered by Dr. Wright in Jamaica.—*L. sp.* 306. *Hort. kew.* i. 298. *Curt. mag. t.* 279.

P. arborescens, ramulis crassis, foliis oblongo-ovatis, petiolis biglandulis, floribus geminatis per spicas terminales. *Browne* 181.

P. flore roseo odoratissimo. *Catesb.* ii. *t.* 92. *Boerh.* i. 315. *Ehret t.* 11. *Trew. select.* 11. *t.* 41.

Jasminum indicum. *Merian surin.* 8. *t.*

The tree Jessamin. *Hughes* 189. *t.* 17.

Quauhtlepatli. *Hernand.* 67.

(Nerio affinis barbadensis arbor latifolia, flore purpureo jasmini odore. *Pluk. phyt. t.* 207. *f.* 2, is a different plant as he himself suspected.)

NERIUM arboreum, folio maximo obtusiore, flore incarnato. *Sloane cat.* 154; *hist.* ii. 61. *t.* 185. 186. *f.* 1.

223. TABERNAEMONTANA.

Follicles 2, horizontal. *Seeds* immersed in a pulp. *Corolla* contorted, infundibuliform. *From L. and Obs.* 7806.

1. TABERNAEMONTANA *alternifolia.* Leaves alternate. Stem arborescent. *L. sp.* 308; *mant.* 346.

CURUTU-PALA. Raii hist. 1754, *from Rheede* i. 83. *t.* 46, (misengraved 47.)

2. TABERNAEMONTANA *bovina*. Leaves opposite, lanceolate. Peduncles solitary, multiflorous. *From Lour.*

Capsicum silvestre. *Rumph.* iv. 133. *t.* 67.
TABERNAEMONTANA bovina. *Lour.* i. 145.

3. TABERNAEMONTANA *bufalina*. Leaves opposite, lanceolate. Peduncles in pairs, uniflorous. *From Lour.* i. 145.

END OF VOL. 1.

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