(6019)

As to the Tarky way of decling Leather, it is to be observed. that their Leather is nothing to strong and serviceable as that in England; an affured proof whereof is the Wearing. And though it be commonly reported, that the Leather in thefe parts though thin and supple, will hold out water; yet this is to be understood, that the Turks in their winter-boots, between the lining and the leather, put a Sear-cloth, which being curioully fow'd in the fearns, will keep out water, though you put them in it for divers hours together. In cleaning of their leather, they use Lime and Album Gracum; and instead of Barks of trees, they employ Valonia, a fort of acorn growing on the Oakes. I am persuaded, that our Acorns in England. if they could be foar'd for it, would perform the like effect, and perhaps better; feeing that many times the Valonia burns the Leather so much as to make it little serviceable; whereas our acorns are probably more temperate and so might better ferve the turn.

An Accompt of two Books.

Il. Vini Rhenani, imprimis BACCARACENSIS, Anatomia Chymica, á Joh. Davide, Portzio Phil. et Med. D. Heidelberge, 1672. in 12°.

His Author treateth in this Book of the Soile proper for Rhinish Wine; of the kinds of that Vine and Grape; and of the Must, Wine, Spirit, Tartar, Vinegar, and particularly of the two Salts, the Acid and Alcali, as the ohief Ingredients of Wine, and according to Tarbesius, of all natural things.

Speaking of the fertility of the Soil proper for Vines, and discoursing of the Nitrous Salt coming down in rain and snow, he delivers a way of collecting that Salt 5:05 which we leave

the skilful to judge upon the reading of the Book.

The Grape he affirms to be compounded of an Acid and a prevalent Alcali; observing, that grapes that are thin-skin'd grow somer ripe, and thrive even in a temperat climat; and taking also notice, that struck with heil when they are big and begin to ripen, they harden and never grow sull ripe.

Having;

Having discoursed of the way of preparing Vessels for tunning up of wine; he is very particular in the matter of the Working of wine: Where he distinguisheth between Effervelcente (which alone he allows to be in Wine) and Fermentations the latter being to him nothing else, than an Action and Reaction of the internal parts of the Acid and Alcali, by which the Spirits are separated without Precipitation; whereas by Effervescence he saith there are no Spirits separated, and though therein be also an action and reaction, yet, in his opinion, 'tis done with a Precipitation: so that, according to him, all Fermentation is made with an Effervolcence, but not vice ver/a; he also offirming, that there may be an Effervelcence between two Acids, when their particles are very active and very tharp or when aftronger is poured on a weaker. Where he adds the manner, how the Must doth effervescere; viz. by the action of the Alcalifate parts upon the Acid ones, which they subdue; whereupon the Effervescence ceaseth, viz. when that Alcali is altogether satiated by the Acid.

Here he takes notice of that Effervescence observed in Wine at the time of the blossoming of Vines; and is of opinion, that it is caused by the Heat, which being at that time more intense worker hupon the said two Salts, and opens them, and so in-

duceth a new Effervescence.

After this he teaches the way of making Must, before the Wine works, either by it self, or by boyling it up. By it self, when 'tis fo close vessel'dup, that it cannot work; which is call'd stum-mine, a liquor that extreamly, affects and rends the brain, by reason that the Salts, that were not before sec at liberty to work, being now open'd in the Stomack do fend up abundance of those pungent steams, so grievously afflicting the brain. By Boyling, when they take strong Vessels not quito fill'd; outring them into a cellar si wherein they make first a mild fire, and then increase it, and after a while lessen it that forthe boyling may cease by little and little of it felf cwhich is perform'd in 26 or 40 hours, caccording to the bigness of the vessel. Here the Wine-boylers, instead of common candless (which would make by the heat) do flit Beech wood dried and lighted by which they also find, when the Must is boyled enough

by reason of the abundance of steams chooking the light; but burning clear, when it hath boiled enough. About 7 or 8 dayes after the Must hath been thus boyled, it begins to work;

after which working 'tis call'd Wine.,

They prepare another kind of boyled Wine, by boyling the Must to half, and then they leave it so, or put into it, whilst boyling, roots and herbs, according to the several uses they design it for; as Elechampane, Worm-wood, Cardus beneditus, Centory, Rosemary, Sage, Baum, Orang pills, but especially Juniper berries. Being thus prepared, it works afterwards more slowly.

If the boyled Must by two violent an Effervescence cast out the Lee (by which it grows vappous or dead,) they stop it by some fatty substance, as with fresh un-salted butter put upon a vine-leas, or by fresh lard applied to the mouth of the vessel, whereby the surious acid parts meeting with an alcali, and be-

ing saturated thereby,, retire and descend again.

There being two forts of this wine, Reddish and White, he notes, that the Tincture of the Red is taken away by Sulphur kindled the Alcalizat colour, got out of the mark or husks, being precipitated by the Acid Sulphur. Sulphur they make also use of to keep their wines, as they also do of Nutmegs, instead of Sulphur.

Discoursing of the Baccharaeh-wine in particular, he notes, that it disfers from other Rhenish wines in colour, odor, taste and virtue. After its working it hath first a luteous colour, which they render limpid by ichthyocolla (being very Alcalical) cut, and kept insused in rain-water for 10 or 12 hours; and then torn into small pieces, and so put into some Wine, and therwith shaken twice every day, till it be quite dissolved; which is done in 6 or 7 dayes. When dissolved, they percolate it through a sive by powring a little wine upon it, and thus percolated they pour it out of one vessel into another until it foam, and then they pour it into the wine to clarify it; some adding sand or powder'd Venice-glass (meer Alcalies,) whereby, as heavy bodies, the tartareous seces go to the bottom. When they pour this solution into the Vessel, they use a stick, with a

little board perforated at the end of it, whereby they agitate and beat the Wine in the Vessel, and so render it clear, which it will beaster 4 or 5 dayes; and then they vessel it out into other vessels.

As for the Smel, that wine is very fragrant, muscatellin and Though there be one fort, that is ranck (bircum olens, Germanice Bruntzer,) which he saith cannot be imputed to the Vessel, nor the kind of Vine alone, nor to the Earth alone. there being gather'd, in all vintages, out of the same Vine-vard and from the same kind of Vine-stock, a grape which hath none of that smell: But this smell not being perceived before the Working, he takes the cause of it from that Effervescence. whereby the Alcali hath a dominion over the Acid; this urinous smell being to the Author nothing but a meer Volatil Alcali, and the Effervelcence, by reason of the copiousness of that Alcali in this kind of wine, during the longer. But that this smell is sometimes so rank in one and the same Vine yard, fometimes not, he imputes to this, that in some years and soils, the foyl is more impregnated with an Alcalifat falt, which the Air abounds with at one time more than an other. This Alcalisat odor is lost by transvasation, that salt being thereby steam'd

The Taste of Baccharach-wine is generally very grateful; and for its Virtue, it is more incilive and diuretick, more stomachical and cardiacal, quickning the motion of the Spirits and exhilarating above the rest. Where he takes occasion to give an account of Drunkenness, which, in his opinion, is thus caused, viz. That the Bloud is circulated in the arteries more swiftly than it can be received into the Veins; whence comes a Giddiness and Stupesaction, which is frequently attended by a head-ach, from a forcible distension of the vessels.

Proceeding to the Spirit of Wine, he declares, that Spirits are nothing else but the fluors of Salts, or Salts resolv'd in their phlegme; Salts being nothing but Spirits concentred. Where he observes, that from sweet wines, as the Greek, Muscadin, &c. a less quantity of Spirits is obtained by distillation, than from Rhenish, quantity for quantity. He also taketh notice, a-

mong the divers wayes of rectifying Spirit of wine, of that of doing it without fire, viz. by an intense Cold, congealing the phlegm, and forcing the Spirit into the midst; as also of that of adding a fix't Alcali to the Spirit of wine, whereupon the Alcali, which is empty, will imbibe the phlegm, and so sink with al; whereupon the Spirit may be decanted, leaving the phlegm at the bottom.

Further, he observes, that Spirit of wine is, as 'twere, the Oyl dissolved in its essential phlegm, which solution is made in the working; every sermented Spirit being, to him, a dissolved Oyl; seeing that upon waters being powred on recisived Spirit of wine, it suddenly grows lacteous, just as a Rosin dissolved. It hatha power of dissolving all Sulphurs, whether fixt or volatil; and highly rectifyed Spirit imbibes

Oyl.

He adds, that out of Spanish and other sweet wines less Oyl is drawn, than from Rhenish, and he refers Oyls to acids, because they are corrosis. He saith also that a purer and siner Oyl is distilled out of Rhenish wine, than out of other wines; which he affirms to be of excellent virtue, a great cordial, and to be preferr'd to the samous tincture of Pearl and Coral.

Hence he goes on to the Tartar, which he saith is precipitated by the Effervescence or consist of the Acid and Alcali, and is condensed into a crystallin and stony matter, consisting of an inflammable Sulphur (which is an acid) and a fixt Salt. Here he takes notice, that the Tartar of Rhenish Wine and of that of Montpelier is preserable to all others; that Tartar of whitewine is better than that of red; and that sweet wines yield but very little Tartar, since 'tis the plenty of acid parts that afford the biggest and finest tartareous crystals. Yet Acetum has no Tartar though it contain a copious acid Salt; of which he renders this reason, that the Wine whence the acetum is made, had already deposed its tartar; besides that the alcalisate parts are wanting, which must needs concur to the concretion of Tartar.

He subjoyns the various V/es of Tartar; To Gold-smiths, for puritying and whitening of Silver, by boyling it in water and Ee ee e e adding

adding a little Allom to it: To Chymiss and Physicians for making their Regulus's for the deslagration and separation of Sulphurs; for preparing with the Creme of Tartar their Tartarum Chalybeatam, Antimoniale, Emeticum, Diureticum; for making a Tartarum Vitriolatum, with Salt of Tartar dissolv'd in Air, and mixt with Spirit of Vitriol by a high Effervescence; for making the Spiritus vini tartarisatus by a tincture drawn out of the Alcalizate salt of Tartar by Spirit of wine, &c.

He concludes this head with directing, how to reduce Salts into Elementary water, viz. by distilling in an Alembic, Salt of Tartar dissolved in the Air per deliquium, whence comes a phlegm; and by distilling again the remainder dissolved as before; and by going on so, till all be distill'd into a phlegm,

and there remain at last nothing but an useless Earth.

After this he treats of Acetum, and esteems the best way of making it to be, by exposing it to the Sun beams, thereby to separate the Spirits, and to open the acid and alcalisate parts, and to consume the phlegm by the heat, and thereby more and more to concenter the acid parts: Yet must not all the spirits avolate; for then from the phlegm which remains after the dissillation of the Spirit of Wine, Acetum would be made; whereas the contrary comes to pass; and the most generous wines (not the sweet ones, as Italic, Spanish, wherein the Alcali exceeds the Acid) afford the best Vinegar. The heat that is required to dissolve the Salts is a gentle and slow one, lest the remaining volatile parts be driven away, and there remain nothing but phlegm.

He ends all by teaching the way of making Ceruse and Verdigrease of plates of Lead and Brass; and by enumerating the many other V/es of Vinegar, in fixing the Narcotique power of Opium, in inciding, attenuating, raising the ferment of the Stomack, repelling inflammations, resisting putresaction, &c.

H. De Poematum Cantu & Viribus Rythmi. Oxon. è Theatro Sheldoniano, 1673. in 8°.

HE Author of this Treatife (which is the famous Isaacus Vossius, though not named in the Title) endeavors to make

make it out, that the Musick of the Antients is far to be preferr'd to that of our Age, foralmuch as Speech, how powerful foeyer at this day, yet, when put into a Song or rendred Mufical, is not of that efficacy in moving our senses, as it was in times of old. For finding out the Cause of which, he observes chiefly three things in Singing; the Harmony, the Words, and the Rhythm or Meeter; the Harmony respecting the found, the Words requiring a distinct enunciation for their clear Understanding; and the Rhythm consisting in a due and wellmeasured motion of the Song. As for the Harmony, he acknowledges, that the Moderns have largely handled it, yet without exhausting the argument. But for the two other parts, he affirms, that they have either totally neglected them, or difcoursed of them besides the purpose. Which he endeavors to prove from hence, that fince all fongs and all harmony, how curious so ever, must prove but an empty sound, if the words fung are not understood, nor the motions significant; as they are not in the modern Musick, contrary to what was most carefully observed in that of the Antients. Where he appeals to Experience, by which he faith it will be found, that scarce the tenth part of what is lung by the Mulitians of this age can be understood, and that they by making, contrary to nature, those Syllables long that are short, and those short that are long, and often repeating the same words ten times, do so disorder and mangle the genuin manner of pronunciation, that they quite destroy the true nature of the song. Besides this, he observs, that we labour under another very great defect, which is, that we are altogether destitute of the Rhythm, the Soul of Songs. And this is it, he faith, which hath induced him, to make out in this Exercitation both the nature of the Rythm, and its wonderful power in moving and raising the Assections: which with what success he hath perform'd, we leave to the judicious to determine.

Mean time, we shall here take notice of divers particulars, which our Author lays weight upon; such as are:

1. The Invention, Nature, Necessity, Efficacy and Number of Poetical Feet, which import different times and measures, and by the means of which not only the visible motions of the Bo-

dy, but also the latent senses and any motions of the Mind may be so lively represented, that there shall be almost nothing in things, that may not be exhibited by well composed Songs and Numbers.

2. The Nature of the Rythm, which he defines to be a System or Aggregate of Feet, the Times of which have a certain proportion to one another; which proportion when 'tis apt, the Verses or Songs are said to be Lyusum, if not, Lipius part, Wherefore for the concinnity of the Rythm, care must be had above all things, not to couple together such seet as differ in their times.

3. The aptness of the variety of the Rythm for expressing either Majesty, or Esseminacy, or Vehemency of Passi-

ons, as Anger, Grief, Love, &c.

4. The cause of the joint Loss of Musick and Poetry in Greece, where they had their Birth together, which he esteems to have been the Change of that Tongue and the Prosody thereof; which is the tenor of the voice according to which the Verse or Song is framed. The same Cause he assigns for the Loss of the Latin Poesy, and that chiefly upon the invasion of the Roman Empire by the barbarous Nations.

5. The Present Constitution of Poetry, which he saith is so ordered that the sole Endings, together with a certain and determinate number of Syllables, doe in a manner all that is done; without any care, of what nature and quantity those Syllables be, and consequently without Rythm, or observation of Matrical seet.

6. The Excellency of the true Greek tongue above all those, of which there remains any knowledg amongst us, and the culture of that tongue, rendring it most apt not only for expressing things, but also for framing Songs and Verses. Where the Author takes occasion of discoursing of divers Tongues, and their Peculiarities, after he had first treated of the two things that are to be considered in all tongues, the Sound and Accept, and enlarged upon the power and efficacy of the Letters both Vowels and Consonants, that form the Sound. Here he examines especially the Genius of several Dialects of the Greek

tongue, and observe the Fast and Gravity of the Spanish language, the Harshness of the German, the Sostness of the English, the Volubility of the French; the Elegancy and Neatness of the Italian, the Hardness of the Polonian.

7. The Cessation, amongst Musitians, of that great power of moving the Affections, which he faith bath been above a thousand years agoe, and ever since that the use and knowledg of the Rythm hath ceased, which alone, in the Authors opinion, could perform what no Musitian this day is able to do; whose Nature therefore and force he explains at large; subjoying thereto his considerations of the Nature and Power of sound, as farr as it concerns this argument, and inferring from thence the far greater force of those Rythmical Motions that are conjoyned with Sound, for the railing of affections: Observing further, that those Motions have so great a power, that even without any voice and found they can raise affections more strongly, than any voice or oration. For the proof of which he alledges the ancient Pantomimi, whose Feet and Hands he makes no less eloquent than the Tonouss of Otators; witness Cicero, who used to contend with Roscius, the Stage-player, which of the two should most vary the same sentence most manacrof ways, the one by words, the other by gestures; which maketh our Author proceed fo farr, as to affirm, that if we employed as much labour and time in learning the Pantomimical Art, as we do in learning a Language, we might possibly come to express our mind and thoughts as clearly by that way, as now we do by the aid of a Language: Nor does he think, that Mankind would suffer any thing by it, if the pest and confusion (these are his own words) of so many tongues were banish't, and, in lieu of them, this sole Art of the Pantomimes were known by all mackind, and men explain'd every thing by signs, nods, and gestures; in regard of which he thinks the condition of Brutes to be much better than that of mensfeeing they fignify without an interpreter their sense and thoughts more readily, and perhaps better, than any Men can do.

8. The skill of explosing the Internal affections of the Body by Touch alone, as we do perceive the External motions by the Eye. Where our Author exceedingly commends the skill of the

Chinese Physicians (which he afferts to be undoubtedly true) in finding out not only that the Body is discaled, (which he saith is all that our Practitioners know by it,) but also, from what Cause or from what Part the Sickness proceeds. Whereupon he adviseth, that, as we collect the manners and affections of men from their Outward motions perceived by the Eye, so we should also, for attaining the Knowledge of their Inward and more latent affections, enlarge our Senses and exercise that of Touch, till we be enabled to distinguist, and to reduce to certain classes, the forms and shapes of every Pulses whereby we would also be led to understand the power and signification of every such motion. And for the reducing of the several forts of Pulses, he prefers to the method of Galen, (who, he thinks, hath rather provoked then satisfied our curiofity in his 15 Books of the Nature and Differences of Pulses) that of He rophilus, of whom he affirms that he hath tied the several manners of the Pulse to Numbers or Metrical feet; the names and powers of which if they were as well known to Physicians, as they are to Musitians and Poets, it would, in his judgement, be exceedingly beneficial for the Life and Health of man. For the encouragement whereof he represents, that, whereas there is not any Kind of motion, which is not to be found in the Mufical feet, it would cost no great pains, according to those to describe the Motions of the Arteries; nor doth he think it very difficult, by use and exercise to come to know and to distinguish by Touch even the compound and discordant Pulses. In short, to make our selves Masters in this skill, he would have us to labour so long in exploring the nature of mens Pulses, till they become so well known and so familiar to us, as a Harp or Lute is to the Players thereon; it not being enough for them to know, that there is something amis which spoileth the tune, but they must also know what String it is which causeth that Fault.

On this occasion the Publisher thinks it will not displease the Reader here to give him notice, that he lately saw a letter written from Java in the East-Indies, mentioning an Indian Treatise, much discoursed of, Concerning the Art and Method of knowing Diseases and their Events by the Sole beating of the Pulse: And that some Curious persons in that Island had already written to some Religious men in China, desiring them to spare no pains in procuring it: To promote which, a summ of mony had been a while ago sent thither for a reward to the Translators. Further, that those Persons in China had promised to imploy all their interest there of doing the thing, as that, which exceedingly tends to the relief of mans health and the Comfort of their Life.

9. The Contemptibleness of the Modern way of Musick, which to him is such, that he saith, there is hardly so much as the shadow of the Pristine Majesty of it remaining; wondering that those, who in this and the former age have written of Musick, have written nothing of the Rythme, or have done it so, that they seem to have been altogether ignorant of what it is; regarding nothing but to please the Ear: Whereas, to affect the mind, 'tis necessary the sound should signific what may be understood by the mind, without which there can be raised no true pleasure, nor any strong affection. In a word, he affirms, that if without partiality we compare the Ancient Musick with the Modern, and consider the Effects of both, we must either acknowledge the ignorance of the Modern Musicians, or evince to be false what the Ancients have delivered of the power and efficacy of their Musick.

10. The Excellency of the Chinese Musick, though that people doe complain of the loss of their antient way of Singing, which if they doe Justly, our Author scruples not to affirm, that their Musick must have been divine, seeing the remainders of it are so excellent, that they may easily silence all the

Musick of Europe.

11. The rare contrivance for rendring even and strong sounds, of the Old Roman Hydraulick Organ, described by Hero and Vitruvius, and explained by our Author, and by him declared to excel our Organs, yielding an unequal and weak blast.

of fo many different forms and figures, as there are kinds of affections concerning which he affirms, that there is none to be found this day, that do so much as know, how to make such

Pipes

Pipes that are able to produce such motions; Since our mor dern Artificers, in his opinion, do fail not only in the matter. of which those instruments are to be made, but also in the proportion, which is to be observed in their form: Forasmuch as 'tis now commonly thought, that, there being two Tibia of the same length, but of different thickness, the thicker of the two will yield a graver found than the flenderer; which he faith, is contrary to Experiment; by which he alledges to have found, that the thicker the Tibie are, the acuter found they yield, and the slenderer, the graver, provided you keep the same length. Where he undertaketh to correct Galilans and Des-Cartes concerning this particular. He concludes all with this admonition, that if any have a mind to restore the Antient Musick, or to rectify the Modern, he must by all means imitate the diligence of the Antients in reducing all fyllables to a certain quantity, and in restoring Metrical Feet, which, be faith, the Modern Musick is almost altogether destitute of.

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