nary, in the Morning fasting, a little before Dinner, and last at night going to Bed.

§ 13. But before we leave this Subject, let me give you this following Note, *That the Bones being reduced into pouder by beating in a Mortar, and then prepared with Spirit of Nitre rectified; and that Dissolution mixed with double the quantity of the best Tartarized Spirit of Wine makes a Medicine much pleasanter both in Smell and Taste, and preferrable before all the other Preparations both for Vertues and Efficacy*, as I by a long Series of Experiments can truly tell. Dose, a gut. 20. ad 60. in a Glass of Wine, as in the former.

CHAP. IV.

Of BALSAMS Distilled.

I. * *Balsamum Apoplecticum*, Apoplectick Balsam.

Bate.] ℞ *Distilled Oyls of Cinamon, Cloves, Lavender, Limons, Marjoram, Mint, Rue, Rosemary, Sage, Rhodium, Wormwood, A. gut. vj. Bitumen Judaicum in fine Pouder ℥ij. Oyl of Nutmegs by Expression ℥j. Balsamum Peruanum. q. s. mix and make a Balsam.* It comforts the Head discusses cold Humors, for which reason it prevails against Apoplexies, Swoonings, and Palsies, being put into the Nostrils, or otherwise applied. Internally it is given a gr.iij. ad vj. &c. with some Cephalick Electuary.

Salmon.] § 1. This Apoplectick Balsam as it is now used, is only smelt to; but that can do but little good; if you will have it powerful to the intention, which is to cure all the parts affected, bathe it well in before a Fire.

§ 2. If the Head be afflicted you must anoint the Temples, Sutures of the Head, and Nostrils; if for a Palsie, anoint the Back-bone from the Nape of the Neck to the Rump, as also the Paralitick Parts.

§ 3. And be sure to do it twice a day, for a Month or six Weeks together, and be not weary; too soon giving over the use of a Medicine, tho it might be the best in the World, as it frustrates the intention for which it is used, so it disparages the Medicine, and causes the Physician to be slighted and despised, who otherwise may be a Man of Learning and Ability enough.

§ 4. If it be made for Great and Noble Persons who are able to pay for it, you may add *choice Musk, Ambergrise, A. ℥ss. Oriental Civet ℈j.* which being ground together with a few drops of pure Juyce of Limons, may be mixt with the Composition.

§ 5. With the Perfumes it ought not to be given to Women who are apt to be troubled with Fits of the Mother; but without the Perfumes they may freely take it inwardly; and that even against the Fits themselves, for which it is a good Expedient: it may be made into a Pill with pouder of Cloves, and so swallowed.

II. * *Bal-*

II. * *Balsamum Magistrale*, The Magistral Balsam.

Bate.] ℞ *Distilled Oyls of Spike, and of Bays, Oyl of Peter, A.* ℥j. *Caranna, red Sanders in Pouder, Oyl of Hypericon* ℥ss. *liquid Storax* ℥iv. *Wax* ℥vss. *Venice Turpentine* ℥viij. *Choice Oyl Olive* ℔ss. *boil all for an hour, then add distilled Oyl of Juniperberries* ℥j. *Oyl of Cloves* ʒj. *Oyl of Cinnamon* ʒss. *mix them, S. A.* It most effectually heals green Wounds whether internal or external, and is profitable against all sorts of Burnings, Contusions or Bruises, Pains in the Bones and Nerves. It is good against the Head-ache, being anointed on the Nostrils and Temples: being applied to the Sides with warm Cloths, it discusses Wind, and eases Pain. It gives ease in the Colick, and Pains of the Feet, being anointed warm thereon, they being first cut or pared to the quick. It stops the Bleeding of the Nose, kills Worms, being internally given, and outwardly applied.

Salmon.] § 1. The Proportion are not exquisite; For what signifies ℥ss. of Oyl of Hypericon to above forty Ounces of the Composition? It may either be left out, or ought to be added in a larger Proportion, as ℥vj. at least.

§ 2. I dislike the Preparation; for if you put in the distilled Oyls of Spike and Bays, and the Oyl of Petre, before the Boiling, they (by reason of their subtilty and volatility) will all boil away, and so the Medicine will never be the better.

§ 3. My Opinion is, that they ought to be put in at last after the boilings, with the Oyls of Juniper, Cinamon, and Cloves.

§ 4. At the end of the Work, every thing being perfectly dissolved that will dissolve, the whole ought to be strained; for otherwise you will find some kind of fæces, which will diminish the pleasant look of the Balsam.

III. *Balsamum Martiale*, Balsam of Mars.

Bate.] ℞ *Mars purified* ℥iv. *affuse thereon Oyl of Turpentine* ℥v. *after put in Guttatim Spirit of Nitre* ℥iij. *digest in a gentle heat for some days; then decant the pure Balsam, S. A.* It is the greatest of Vulneraries.

Salmon.] § 1. This is taken from *Zwelfer, Mantiss. Spagyric. par.* 1. *cap.* 4. *pag.* 808. but somewhat differs in the Composition. In the Author it is thus: ℞ *Pure and clean Filings of Mars* ℥ij. *Oyl of Turpentine, or Oyl of Juniper, or Aniseeds, or Fennel, which of them you please* ℥iij. *mix them, and instil thereto by drops, and at times of acid chalibeat Spirit of Sal Armoniack; or for want thereof, a pure Spirit of Nitre; macerate them a little while, so will you have in the Oyl a rubicund Tincture, which separate from its fæces by filtering, and keep for use.*

§ 2. The acid chalibeat Spirit of Sal Armoniack, s made from *Sal Armoniack sublimed from an equal quantity of pure Filings of Mars, in a Glass Alimbeck, or Glased Earthen Cucurbit, upon a naked Fire, first gentle, and then increasing it with degrees of heat, till the bottom of the Cucurbit is red hot (saving the volatile Spirit as it comes forth.)*

§ 3. *This Martial Sublimate, mix it with the* Caput Mort. *very well, expose it to the moist Air, that it may be impregnated, and begins to ascend in Flowers of a yellowish colour, put this impregnated Mass into a large Glass Retort, with a long Neck well*

well coated; place it in a Reverberatory, on a naked Fire, with a large Receiver, well closed in the Joynt.

§ 4. *Then distil first with a gentle Fire, to force the Flegm; then with a stronger gradatim, that the Spirit in the form of Clouds may follow, by little and little, which continue till the Cloudy Spirits disappear, so will you have the acid saline Spirit of Sal Ammoniack of a Golden colour, much like to Spirit of Salt, by one only distillation pure and deflegmated.*

§ 5. This is the Spirit which *Zwelfer* uses in making of this *Balsamum Martiale*, for want of which, he says, you may use *Spirit of Nitre*, and that our Author to avoid such a great labour, chose rather to do: however, I thought good to give the Prescript, that every Man may take his choice.

§ 6. This Balsam, says *Zwelfer* is a present Remedy against the Stone, and Ulcers of the Reins, the Colick, the Nephritick Passion, and all other internal Ulcers, of what kind soever, healing them after a most effectual manner: Dose a ℈ss. and ℈j.

§ 7. It has also the same effects upon external Ulcers, doing more than can possible be imagined in a very short time; and therefore may very well be accounted among the best of Vulneraries. *Zwelfer* also makes it with *Ol. Vitrioli.*

IV. *Balsamum Paralyticum*, the Palsie Balsam.

Bate.] ℞ *Venice Turpentine* ℔iv. *Olibanum, Aloes, Castor Myrrh, Xyloaloes, Flowers of Hypericon, A* ℥j. *Gum Elemi, Labdanum, A.* ℥iij. *Storax liquida* ℥ij. *Balsam of Peru* ℥iv. *Calamus Aromaticus, Galangal, Cloves, A.* ʒvj. *Cinamon* ℥ss. *Flowers of Rosemary and Sage, A.* ʒx. *all being rightly prepared, mix them with the Turpentine, adding S. V.* ℔iv. *digest warm for six days, then distil through a large Retort in Ashes, first with a gentle fire forty eight hours, so that the Retort by degrees may grow warm: then for some time with a stronger: and at length with the highest degree of heat; so will you have,* 1. A Water which is called, *Mater Balsami.* 2. A yellow Oyl *of a thin substance, which is called*, Balsamum Paralyticum. 3. A thick Oyl, *which is called*, Oleum Balsami. It wonderfully comforts the Nerves, cures the Palsie and Contractures, outwardly anointing with it, and inwardly taking of it.

Salmon.] § 1. This is taken from *Phirovant's* Secrets, *lib.* 3. *cap.* 2. but differs something from that Composition; which is this: ℞ *Venice Turpentine* ℥iv. *Olibanum, Myrrh, Gum Hedera, Galbanum, A.* ℥iv. *Oyl of Bays, Gum Arabick, A.* ʒx. *Lignum Aloes, Galingal, Cloves, Consolida Minor, Cinamon, Nutmegs, Zedoary, Ginger, white Dittany, A.* ʒiij. *Musk, Ambergreese, A.* ℈j. *beat all these things together, and put them into a Retort of Glass, well coated, and put thereto rectified Aqua Vitæ* ℔ij. *digest eight days, then distil in Sand, so will you have a white Water mixed with Oyl: let the Fire be but gentle, till a blackish Oyl begins to come; then change your Receiver, and increase the Fire till all be come forth, so will you have Water and a black Oyl, which separate.*

§ 2. The first Water is white, and is called *Aqua Balsami*, and the Oyl separated from it is called, *Oleum Balsami.*

§ 3. The second Water which is fætid, is called, *Mater Balsami*; and the Oyl separated from it called, *Balsamum Artificiale*: § 4.

§ 4. The first Water is good for the Eyes, and to clear the Skin, being washed therewith; taken inwardly, it is good against Gravel, and to provoke Urine, and is prevalent against all manner of Wounds, in what place of the Body soever, if washed therewith, and Cloths wet therein be laid thereon.

§ 5. It is also good against Wheezings, Catarrhs, Coughs, Gouts, and such like.

§ 6. The other Water called, *Mater Balsami*, cures Scabs in a short time, if washed therewith, as also the Leprosie, white Scall, and all sorts of Ulcers which are not corroding, and heals them to a Miracle, without any trouble; as also many other Diseases of the Nerves and Joynts.

§ 7. The *Oleum Balsami* cures many Diseases, chiefly Wounds in the Head, tho' the Cranium and Membranes should be hurt: It is good against the Palsie and Gout, from a cold Cause being anointed therewith.

§ 8. And taken inwardly, it is most excellent against the Pleurisie, ℈j. of it being taken at a time in Balm-water, or some such like thing.

§ 9. The *Balsamum Artificiale*, is good against any Stitch in the Side, being taken inwardly a ℈j. ad ʒss. in any proper Vehicle; as also against Vapours and Fits of the Mother.

§ 10. It is good against Coughs, Colds, Catarrhs, and Coldness of the Head and Stomack, as also for Wounds in the Head, the Head and Stomach being anointed therewith.

§ 11. It is good against a Quartane, the Back, Stomach, Bowels, and Pulses being anointed therewith; as also against Palsies, and other Diseases of the Nerves and Joynts.

§ 12. But considering of what differing Substances this Preparation is composed, and how many Aromatick things are in it, we cannot commend the *Modus Præparandi*, for that those things which are of themselves, and in their own nature fragrant and odoriferous, are by this means made extreamly fætid and ingrateful.

§ 13. Nor do we think it prudent or necessary to put odoriferous Ingredients into Medicines which are distilled by a Retort, for by that means their fragrancy is lost, and the pure odour of the Ingredients destroyed.

§ 14. If therefore you would prepare this Balsam according to Art, you must proceed after this manner: ℞ *Venice Turpentine* ℔iv. *Olibanum, Myrrh, Gum Hedera, Galbanum, Aloes, A.* ℔j. *Castoreum, Xyloaloes, Galangal, Zedoary, Ginger, Acorus, A.* ℔ss. *Flowers of Rosemary, Sage, Lavender, Liquid Styrax, Labdanum, Gum Elemi, Balsam of Peru, A.* ℥iv. *Cloves, Nutmegs, Cinamon, A.* ℥iij. *rectified Spirit of Wine* ℔vj. *pouder what are to be poudered, and bruise what are to be bruised, then mixt all together, and put them into a Glass Cucurbit: digest a Week, then distil in B. M. to dryness.*

§ 15. *So have you a sweet or odoriferous Spirit and Oyl, which take, separate, and keep by themselves.*

§ 16. This done, ℞ *All the dry matter left in the bottom of the Cucurbit, beat it into gross Pouder, put it into a Retort, and distil upon a naked Fire in a close Reverberatory, so will you have an acid Water, and a fætid Oyl, which take, rectifie, separate, and keep by themselves also.*

§ 17. By this means you have all

all the virtue, power and efficacy out of the Ingredients, preserving their natural Properties and Qualities entire.

§ 18. By the first distillation you have the odoriferous Spirit and Oyl, profitable against most Diseases of the Head, Brain, Nerves, and Joynts.

§ 19. And by the latter distillation, the acid Spirit, and fetid Balsam; the last of which, may be of good use in many external Diseases, as is before declared: the acid Spirit is Sudorifick, purifies the Blood, and is of excellent use against the *Lues Venerea.*

§ 20. The odoriferons Spirit is excellent against the Plague or Pestilence, and infallibly cures it, if the Brain and Heart be not smot, about ʒij. of it being given in a Glass of fragrant Wine, and the Stomach anointed with the fragrant Oyl, and then the Patient made to sweat thereupon.

§ 21. It comforts the Stomach, consumes cold Humours, causes an Appetite and good Digestion, and is an excellent thing against Palsies, Convulsions, Weakness of the Optick Nerves, and other Diseases of the Head and Brain.

§ 22. *The odoriferous Oyl* preserves all things from putrefaction, is good against the Plague or Pestilence, cures the Gout and Sciatica, and is profitable against Palsies Convulsions, Cramps, Numbness, Loss of the use of Limbs, and is good against Rheums, Coughs, Catarrhs, Colds, Stiches, Pleurisies, and expels the Stone and Gravel, whether in Reins or Bladder.

§ 23. Dose a gut. viij. ad xx. dropt into white Sugar, and drunk in Parsly water.

§ 24. It has all the Virtues of the Natural Balsam, and cures all manner of Wounds wheresoever, if dreſt therewith, and if timely applied, at one Application.

§ 25. Held in the Mouth, also, it gives ease in the Tooth-ache; so also, if a hollow-Tooth be stopt with a little Cotton, or Lint dipt therein.

§ 26. *The fætid Oyl* is of use for curing outwardly Ulcers and Fistala's, and other like stubborn and rebellious running old Sores.

§ 27. It also allays Vapours, and helps Fits of the Mother by smelling to it, or anointing it on the Nostrils, and sometimes taking it inwardly a gut. j. ad iv.

V. *Balsamum Saturninum*, Balsam of Saturn.

Bate.] ℞ *Salt of Saturn* ℥iv. *Spirit of Turpentine* ℥xij. *mix and digest according to Art.* It is of very great use in Chyrurgery: heals inveterate Ulcers and Tumours, cures Wounds, and preserves them from Accidents, more especially if a little Camphir be added thereto: it prevails also against Fistula's, Cancers, Morphew, &c.

Salmon.] § 1. The Prescript is exactly from *Le Mort*, who when they are mixt, advises you to let them stand in digestion for six days till the Oyl or Spirit is tinged of a most rubicund colour, and the *Sal* or *Saccharum* is wholly dissolved, still adding a little more, as long as it will dissolve any.

§ 2. And if ʒj. *of Camphir* be dissolved in every Ounce of the Balsam, it will be yet more efficacious.

§ 3. Or thus according to *Lemery*: ℞ *Salt of Saturn* ℥viij. *rectified Oyl of Turpentine, so much as to cover it, four inches deep; being put into a Matrass, place it in a gentle Sand*

Sand heat, digesting for a day, or till you have a red Tincture; which decant, and put on more Oyl of Turpentine, digesting as before; then decant the Tincture again, which is a little coloured, and there will remain a little fæces at bottom, which you may revive into Lead in a Crucible.

§ 4. *Put these dissolutions into a Glass Retort, place it in Sand, fit to it a Receiver, and with a very gentle Fire distil off about two thirds of the Oyl of Turpentine, cease the Fire, and cool the Retort, pouring that out which is in it, into a Glass Vial, which keep for Balsam of Saturn.*

§ 5. It is excellent for curing Fistula's, cleansing and cicatrizing of Ulcers: It heals Cankers, being but touched with it, tho' never so bad, for it mightily resists Putrefaction, heals Wounds, and cures an Atrophy in any particular part.

§ 6. It is also of wonderful use in a hot Gout, if a little Lint, or Cloth be moistened in it, and applied to the part.

§ 7. It is said also to cure Suffusions or Cataracts in the Eyes, and to take away redness and blood-shot in them.

§ 8. It has all the Virtues of the *Saccharum Saturni*, but much more powerful, and by reason of the Correction of the *Ol. Terebinth.* may be the more safely taken inwardly. Dose a gut. j. ad vj.

§ 9. Now here is to be noted, That this Oyl of Turpentine dissolves Lead, and easily unites with it, because of its sulphurous Nature; and therefore if you should persist in putting on new Spirit or Oyl of Turpentine on the remaining matter, all the *Saccharum* would at last dissolve.

§ 10. A Compound Balsam of Saturn. ℞ *Filings of Mars cleansed, q. v. put upon them rectified Spirit of Salt, so much as to over-top them four inches: let them stand together till the effervescence ceases, and the Spirit of Salt grows sweet; which sign appearing, filtrate the Spirit, and evaporate to one half; then add an equal quantity of* Saccharum Saturni, *put them into a Retort, and with a gentle fire draw off the superfluous Liquor to dryness; so in the bottom of the Retort will remain a mass of a rubicund colour, sweet like to Sugar, and most powerfully astringent.*

§ 11. This being given inwardly, it most happily cures Dysenteries, Hemorrhagies, and the over-flowing of the Terms, as also the Hepatick Flux, and the Celiack Passion.

§ 12. Outwardly, mixed with any convenient Vehicle, and injected by a Syringe into Wounds, it cures their Hemorrage or Bleeding, obtunds the sharpness of Humours, mitigates the pain, and stops their flux to the wounded part.

§ 13. Inwardly it is given in Vulnerary Potions a gr. iv. ad x. often to be repeated as occasion requires.

VI. *Balsamum Succini*, Balsam of Amber.

Bate.] ℞ *White Amber in subtil Pouder ℥ij. pure Oyl of Turpentine ℥iv. insolate them so long till the Amber is perfectly dissolved.* It strengthens the Brain and Senses, comforts all the Nerves, and is profitable against all their Disaffections, as Convulsions, Epilepsies, Hysterick Fits, &c. It is also a great Diuretick.

Salmon.] § 1. *Rolfincius, Artis Chymiæ, lib. 4. sect. 5. cap. 2.* makes it thus: ℞ *Bees-wax, white or red, q. v. affuse thereon a sufficient quanti-*

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ty of Oyl of Amber, that may dissolve the Wax: mix and digest with a gentle heat to a just Consistency.

§ 2. This, says he, most powerfully comforts the Brain, and may be given inwardly in Broth or ℈ss. without nauseousness: Outwardly it is to be anointed on the Coronal and Sagittal Sutures, upon the Forehead and Temples.

§ 3. That which I use is thus made: ℞ *Pure Oyl of Nutmegs or Mace by Expression, ℥ij. choice Oyl of Amber ℥j. Salt of Amber ℥ss. mix well together, so have you an excellent Balsam of Amber.*

§ 4. The Virtues thereof we will give you from *Grulingius Florilegii, par.* 11. *cap.* 2. It excels other Balsams, being used against the Epilepsy, Apoplexy, and Vertigo.

§ 5. It comforts the Memory after an admirable manner; it cures all Diseases of the Head and Brain; it stops the overflowing of the Terms, Fluxes of Blood, and Suffocation of the Womb; it facilitates the Birth, being anointed upon the Navel, for which reason also it gives ease in the Colick [and in After-pains of Women lying in.]

§ 6. It is good against the Strangury, and strengthens the Concoction of the Stomach; and is a famous Medicament against the Plague, and all Epidemick Diseases. Dose of it inwardly a ℈j. ad ℈ij.

VII. *Balsamum Sulphuris Antimonii*, Balsam of the Sulphur of Antimony.

Bate.] ℞ *Combustible Sulphur of Antimony, Salt of Tartar, ana ℥j. Spirit or Oyl of Turpentine ℥iv. digest them together, S. A.* It is profitable against sordid Ulcers, Fistula's, &c. Dose inwardly ad gut. x.

Salmon.] § 1. This Combustible Sulphur of Antimony is thus made: ℞ *Aqua Regia (made of Spirit of Nitre ℥iv. in which ℥j. of the Pouder of Sal Gem is dissolved, and distilled by a Retort in Sand to drineſs) ℥iv. most fine Pouder of crude Antimony ℥j. mix them together in a long Cucurbit, putting in the Pouder into the Spirit by degrees, always waiting till the former effervescence ceases: all the Pouder being put in, digest tweny four hours.*

§ 2. *Then pour off the Solution into a White-ware Pot or Bason, almost filled with pure Water, so will the whole become like Milk; after a little while decant the Milky Water into another clean Pot or Bason, and in the bottom you will have a thick and heavy Pouder, which is the inflammable Sulphur of Antimony, which is so often to be washed with pure fair Water, till it cease to come away Milky, then dry it, and keep it for use.*

§ 3. Or thus: ℞ *Fine Pouder of crude Antimony, q. v. to which put by degrees* Aqua Regia, *in a Glass Retort, so long till the effervescence ceases, then draw off the* Aqua Regia, *by a gentle distillation in a soft fire, but exciting it vehemently towards the end, so in the neck of the Retort, you will find the inflammable Sulphur of Antimony sublimed of a subcitrine Colour, which take and keep for use.*

§ 4. Otto Tachenius *in his* Hippocrates Chymicus, cap. 23. saith, *Simple Aqua Fortis of Nitre and Alum, or Vitriol, corrodes not, nor dissolves crude Antimony; but adding to this Water, so much fine cleanly poudred fused Salt, as it can dissolve; if it be then superfused on the Pouder of crude Antimony, it will with a gentle heat presently act on the Antimony, and corrode the Regulus of it, on which pensently pouring cold Water,*

Water, you will see the Sulphur separated and swimming upon the top of the Water like Pitch.

§ 5. Where Note, That at one Operation you must not dissolve above two Drams or thereabouts, for in a greater quantity, the Sulphur will also be corroded by the Water, and turn to feces: dulcify this Sulphur with cold Water, and it will look like the common Sulphur, only a little greener.

§ 6. In making the Balsam *you ought to stir the mixture continually, till the Sulphur is dissolved in the Oyl, for otherwise it will coagulate and settle to the bottom into a mass, and never dissolve so as to bring the Oyl into a Balsam.*

§ 7. *The Fire must be gentle and not extream, and you must be cautious, that it kindle not, lest you set the House on Fire.*

§ 8. *The Sulphur being once dissolved, it ought to digest for a Week or more in a gentle heat, to perfect the Unition.*

§ 9. This Sulphur is an excellent thing against all Wounds and Ulcers whatsoever, and stops bleeding admirably.

§ 10. It is also good against Coughs, Colds, Asthma's, and all Oppressions and Obstructions of the Lungs, Difficulty of Breathing, Shortness of Breath, &c. Dose a gut. vj. ad xij.

VIII. * *Balsamum Sulphuris Anisatum*, Balsam of Sulphur Anisated. Bate.] ℞ *Flowers of Sulphur ℥ij. Oyl of Aniseeds ℥viij. mix and digest till the Sulphur is dissolved, and the Balsam becomes of a rubicund colour.* It is of admirable use against Catarrhs, or Defluxions upon the Breast and Lungs, Coughs, Asthma's, Phthisick, Pleurisies, Colick, the Plague or Pestilence, Epilepsie, and all sorts of Apostemes, and Putrefactions of the Body. Dose ad ℈j.

Salmon.] § 1. It is only a solution of the oily parts of the Sulphur in the Oyl of Aniseeds: Put the Ingredients into a Glass Matrass in Sand, and give a digesting Fire for two Hours; afterwards increase it a little for four Hours more, stirring it very often; the Vessel being cold, separate the clear Balsam from the Sulphur that will not dissolve.

§ 2. In this our Prescript the Proportion is a j. to iv. but *Grulingius* and Monsieur *Charras* in his *Royal Pharmacopœia*, makes it as j. to vj.

§ 3. ℞ *Flowers of Sulphur ℥j. Oyl of Aniseeds by Expression ℥vj. put them into a Matrass, which stop exactly, and set it in digestion over a moderate Fire, till the flowers of Sulphur are almost all dissolved in the Oyl; take off the Matrass, and when the Ingredients are cool, separate the Balsam by Inclination from the fæces, which keep in a Bottle close stopt.*

§ 4. Now here is to be noted, that the volatility of the Oyl of Aniseeds requires that the Matrass should be well stopt; but you must be careful in the time of digestion to shake the Matrass often, to hasten the dissolution of the Flowers.

§ 5. It is also to be observed, that the Oyl by Expression may make a dissolution of the Sulphur; yet the Oyl by distillation would do better, (and that is it which is intended by our Author) but being more volatile, it is absolutely necessary, that the Vessel should be well stopt.

§ 6. *Le Mort* makes it after this manner: ℞ *Sulphur or its Flowers ℥ij. Salt of Tartar ℥j. mix and melt them together exactly, till they become*

become of a darkish purple colour; this done pouder them, and to two Ounces of the Mass add Oyl of Aniseeds ℥iij. boil the in B. M. for eight Hours, often stirring the Materials: then the Vessel being cold, decant the tinged supernating Oyl, and keep it for use.

§. 7. This you see is made by the help or addition of Salt of Tartar; which tho' it may be made without it, yet by this means the Body of the Sulphur is not only prepared and somewhat opened beforehand, but also the acid Particles thereof, are corrected, so as they may not hurt the Lungs.

§ 8. But in our *Phylaxa Medicinæ, cap.* 55. *sect.* 1. we have taught you to make it from *Lac Sulphuris*, for that the Body of the Sulphur is yet better opened by the Alcali, and Experience has confirmed the Effects thereof to be more excellent than that otherwise prepared.

§ 9. Our Author thinks this Balsam to be little inferior to Natural Balsam, for that it moderately heats and dries, and preserves from Corruption.

§ 10. It is highly recommended against Diseases of the Breast and Lungs, as Coughs, Colds, Asthma's, Pleurisies, and Ulcers of the Lungs.

§ 11. It is very good against the Colick, Oppressions of Wind, Griping of the Guts, Weakness and Indigestion of the Stomach, want of Appetite, Heart-burnings, &c.

§ 12. It is also good against the Plague or Pestilence, and all Epidemick Diseases, continual and intermitting Fevers.

§ 13. *Grulingius, par.* 17. *cap.* 5. *pag.* 385. *Florilegii*, calls it the most perfect of Balsams, and says it has all the Virtues of the Natural Balsam, and the greatest Conservative Power in preserving from Putrefaction.

§ 14. And besides all the former Diseases for which it is good, he commends it as an excellent thing against the *Lues Venerea*, and all Apostemes proceeding from Putrefaction. Dose a gut. iv. ad xij. or or xvj.

§ 15. If you would take it in a Potion, it will be best to dissolve it first in a little of the Yolk of an Egg, and then to mix it with the Broth, Wine, or Waters which you design as a *Vehiculum*. For the Colick anoint it on the Navel and Belly.

IX. *Balsamum Sulphuris Benzoinatum*, Benjamin Balsam of Sulphur.

Bate.] *It is made of the Flowers of Sulphur, and Oyl of Benjamin, in like manner as the Anisated Balsam.* It is a wonderful Pulmonick and Antiasthmatick, and strangely prevails in drying up Catarrhs.

Salmon.] § 1. What this Oyl is, and how it is distilled, we shall here shew. Having made the Flowers of Benjamin, as we shall hereafter, in this Book, declare; *you are to take what remains after the Flowers are sublimed and put into a little Glass Retort, and then to distil with a fit Sand-heat, a thick and fragrant Oyl, continuing the distillation till no more will come forth, and nothing but a spongy Earth remains behind in the Retort.*

§ 2. *Grulingius* in his *Florilegium* teaches you to mix the Benjamin with Sand, and to fill the Retort half full, then to distil with degrees of Fire; so have you a Water and Oyl thick like Butter.

§ 3. But this is fetid, and not fit for our purpose, and therefore he prescribes a rectification; this, tho' it renders it more grateful, yet is unfit for this work.

§ 4. *Charras* makes it thus: ℞ *Benjamin* ℔j. *in Pouder, put it into a Glass Retort, having a longer neck than ordinary; add rectified S. V.* ℔iij. *mix them well, and lute to it a Vessel of Rencounter, setting the Retort upright for twenty four hours, upon a very gentle Sand-heat, stirring the Substances from time to time, to hasten the dissolution of the Benjamin.*

§ 5. *This done, place the Retort in a Sand-heat, take off the Vessel of Rencounter, and fit to it an half Ball, luted with a wet Bladder, and with a moderate Fire distil off the Spirit of Wine, after which the Flowers will rise.*

§ 6. *As soon as you see them appear, set to a new Receiver, in the place of the former, luting the Juncture slightly, that you may take out from time to time, the Flowers that shall fall into it, and such as stop the neck of the Retort, keeping them by themselves for their particular use.*

§ 7. *The Flowers being past, Lute to another Receiver, so will you have at first a thick Liquor of Oyl, second an acid Water, third a yellow, clear, and odoriferous Oyl, which is the thing designed in our Prescript. Fourth, And by continuance a fat and thick Oyl, which is only of use to cleanse and heal old Ulcers.*

§ 8. We will yet, because of the excellency thereof, shew another way of distilling our intended Oyl: which is thus: ℞ *Benjamin in Pouder, so much as may fill the third part, or less, of the Retort, (which if of Glass must be coated) affuse thereon Spirit of Salt, q. s. but so as the Retort may not be too full, lest the matter should flow over.*

§ 9. *Place it in Sand, and give Fire by degrees, so will you have, 1. a Flegm, 2. a clear transparent Oyl, together with a Spirit of Salt, which must be kept by it self; 3. a yellow Oyl, which is to be kept by it self, and is that intended in the Prescript. 4. A thick fat Oyl.*

§ 10. This Oyl, tho' it is not to be cast away, yet it is very unlike to the former, and serves only for outward uses, to be mixt with Oyntments and Emplasters.

§ 11. The Water or Flegm, is very subtil and penetrating, good against Contractions of the Nerves, Pains, Aches, Palsies, &c.

§ 12. The clear Oyl is more powerful, and does wonders in cold Diseases of the Nerves.

§ 13. The yellow Oyl, which is the intended Matter of the Prescript, is yet more powerful than either of the former, and a Specifick in the Palsie, &c.

§ 14. Having gotten this yellow odoriferious Oyl of Benjamin, you are to put into it a fourth part of the Flowers of Sulphur, in a Glass Matrass; which being stopt up close, you are to pursue the Operation in all respects as in the former Anisated Balsam of Sulphur.

§ 15. This Balsam is singularly good for Asthmatick Persons, and such as Wheeze, are Short-winded, and cannot easily fetch their Breath; and it is especially good for such as have a vehement Catarrh, which falls violently upon the Breast and Lungs.

§ 16. It is good against a Phthisick, or Ulcer of the Lungs, and by its Balsamick Property, quickly heals and cures it.

§ 17. It is also good against the Colick, and Griping of the Guts, more especially if it proceed from a

a Dysentery or Bloody-flux. Dose a gut. vj. ad xij. or xj.

§ 18. Outwardly it is vulnerary, and speedily cures any green Wound, or old Ulcer, being applied either alone, or with some other proper Balsam or Emplaster.

§ 19. It cures the Gout, as also old Aches and Pains proceeding from a cold Cause, the place afflicted being often anointed therewith, and Cloths dipt in the same laid thereon, at least twice a day.

X. *Balsamum Sulphuris Knephelii*, Knephely *his* Balsam of Sulphur.

Bate.] *It is made from the Hepar Sulphuris poudered*, p. 4. *fresh Linseed Oyl*, p. *iij. and then boiled to a thickness, and cautiously distilled by a Retort; then mixing the Oyl (first separated from the Water) with half the quantity of the Colcothar of Vitriol, upon a gentle Fire; which being cooled, are to be put into a Glass Retort in Sand, to be distilled, or rather rectified: this rectified Oyl is to be mixed with half the quantity of Oyl of Aniseed, and to be digested, S. A. into a red Balsam.* It is a most excellent Balsam for the Lungs, drying up Catarrhs, helping Asthma's, Coughs, Phtisicks, the Colick, &c. It helps Expectoration, stops Defluxions to the Joynts, discusses Ventosities, and prevents them, Dose a gut. iv. ad xij.

Salmon.] § 1. This is taken out of the *Messis Medico-Spagyrica*, or the Edition of *Schroder* in Folio, *pag.* 733. from whence we shall a little explicate the process; moreover in the original Prescript the Sulphur and the Linseed Oyl are in equal quantities.

§ 2. ℞ *The best yellow Sulphur finely poudered, fresh made Linseed-Oyl, A.* ℔ *iij. mix them together, and boyl them in a very large Copper Vessel, but upon a very gentle Fire, continually stirring them with a wooden Spatula, till they begin to grow thick.*

§ 3. *Then remove the Kettle or Skellet from the Fire, and put it into a great Vessel filled with cold Water, so will the matter ascend, and be condensed like Liver, but all spongy; which being cooled, and taken out upon a wooden Table, let it be cut into little bits, which put into a strong Retort, well luted and coated.*

§ 4. *Then put it into a Reverberatory, affixing a proper Receiver, and distil with degrees of Fire: for the first five hours, there comes forth Flegm; after that, a milky Liquor, which will also continue for six or seven hours.*

§ 5. *Cautiously proceed farther to fifteen hours, prudently managing the Fire (if you would save your Receiver, and not take pains in vain, which you are friendly advised) of till little white Clouds begin to come forth, then increasing the Fire (by adding more Coals) a most red Oyl will distil forth.*

§ 6. *In which degree of heat continually keep it, till the whole radical humidity is distilled over, and till no more Clouds appear, then exciting the Fire to the highest violence, so as the Retort may be red hot, the thick Oyl, like to Butter, will come forth, but yet yet in small quantity.*

§ 7. In this last distillation, you shall see the whole Furnace, chiefly in the Night, of a Cerulean colour, for that all the Sulphur being kindled does burn, and the whole House will be filled with a Sulphurous Odour.

§ 8. And almost all Metalick Vessels, chiefly such as are made of

Silver and Copper, or Iron, will be ſpotted and blemiſhed, or changed into divers colours, as if they had been ſtained with Verdigriſe, ſo ſubtil is this Spirit, to pierce all the Veſſels, the Walls of the Furnace, and the ſeveral Coatings.

§ 9. This Butter like Oyl, being come forth, the Fire is to be removed or diminiſhed; that every thing may cool.

§ 10. The diſtillation being done, the milky Liquor is to be ſeparated from the Oyl, which is wont to coagulate it ſelf into a thick and ſtiff Maſs, which yet notwithſtanding, upon the Fire is again eaſily melted, and it is to be rectified after this manner.

§ 11. ℞ *Of this coagulated Oyl, p. ij. Colcother of Vitriol, p. j. mix them upon the Fire in a large Pan, ſtirring them with a wooden Spatula: being mixed and cooled, break it into ſmall bits, put them into a Glaſs Retort, and diſtil in Sand, and again in the ſpace of twenty four hours, the Flegm will come forth with Oyl.*

§ 12. *Then augmenting the Fire, there comes forth together with the Spirits a thick Oyl, not much unlike Glew, which being all come forth, is again to be ſeparated from the Flegm.*

§ 13. ℞ *Of this Oyl ſeparated from the Flegm; for Example ſake, ℥iv. Oyl of Aniſeeds ℥ij. mix them in a Phial hermetically ſealed, and digeſt for forty days in a gentle and Philoſophick digeſtion, and ſo long till they are perfectly united, ſo have you the true Antihectick Tincture, red like a Ruby.*

§ 14. It is one of the greateſt Arcanums that is, for the Cure of the Phthiſick, and all Diſeaſes of the Breaſt and Lungs, ſo that in the World a greater or better is ſcarcely to be found, for which the Name of the moſt great and good God be eternally bleſſed and praiſed.

§ 15. In the Plague it is as it were a Divine Remedy, as well for the Preſervation from, as the Cure of that Diſeaſe.

§ 16. And as it is a Balſam for both Lungs and Liver, ſo alſo it is an excellent Antepileptick and Antilunatick. Doſe a gut. iij. ad x. in any fit Vehicle.

§ 17. Now here is to be noted, That the Work will the better ſucceed, if ſome Salt of Tartar be added by mixing it with the crude Sulphur in the firſt work, before you mix it with the Linſeed Oyl.

§ 18. *Agricola* in his Tract of *Sulphur, pag.* 397. and *Joh. Poppius in Hodegetico,* make mention of this Oyly Medicament. So alſo *Paracelſus, Libro de Naturalibus rebus, cap.* 8. § 7. And *Rolfincius Artis Chymiæ, lib.* 4. *ſect.* 1. *art.* 1. *cap.* 2. deſcribe it from *Paracelſus.*

§ 19. It does wonders in the Colick, Stone, Palſie, Contractions of the Limbs, in expelling Worms, and in healing, old, fætid, and rebellious Ulcers.

§ 20. The white Liquor ſeparated in the diſtillation, which has no internal uſe, is a ſingular thing againſt the Pſora, Scae, Leproſie, and an Alophecia Leproſa, or Leprous Falling of the Hair.

§ 21. It is good for Puſtuls, and other breakings out in the Face and Skin, Scurf, Morphew, Gutta Roſea, being mixt with other Liquors; and ſome ſay it is profitable for ſuch as labour under an *Hydrophobia.*

XI. * *Balſamum*

XI. * *Balsamum Sulphuris Succinatum*, Balsam of Sulphur with Amber.

Bate.] *It is made of the Flowers of Sulphur with Oyl of Amber, in all respects as you make the Anisated Balsam.* It prevails against the Colick, &c.

Salmon.] § 1. The Vulgar Chymist has another way of making this Balsam, besides the common way of the Terebinthinated, or Anisated Balsam, and it is thus:

§ 2. ℞ *Of the thick Terebinthinated Balsam of Sulphur, the Preparation of which see in* Sect. 12. *next following,* ℥j. *pure Oyl of Amber* ℥ij. *mix them well together by shaking them in a Vial, then put them into B. M. and gently boil them, so will the Oyl dissolve, the Balsams enter into it, and mix with it, and this is* Balsamum Sulphuris Succinatum.

§ 3. Other Authors advise not to boil the Terebinthinated Balsam, and the Oyl of Amber together, but only to digest them together in a boiling B. M. till the Balsam is dissolved in the Oyl: but by this way it will be thinner, and want of the true Consistency of the Balsam of Sulphur.

§ 4. It is a good Vulnerary; both inwardly taken, and outwardly applied, heals Ulcers of the Lungs, it heats, attenuates, incides, dries, and resolves thick Flegm both in Stomach and Lungs, is of good use against the Jaundice, Coughs, Colds, and Shortness of Breath; it allays the Vapors, and helps Hysterick Fits.

§ 5. And in a word, it is good against most Diseases of the Breast, Lungs, and Womb. It also kills Worms, and strengthens the Bowels. Dose a gut. iv. ad xx. mixt with some proper Syrup.

XII. * *Balsamum Sulphuris Terebinthinatum*, Balsam of Sulphur Terebinthinated.

Bate.] *It is made with Oyl of Turpentine, as that with Oyl of Aniseeds aforegoing*; viz. ℞ *Flowers of Sulphur* ℥j. *Oyl of Turpentine* ℥iv. *digest in Sand, that it may gently boil for some hours*, viz. *so long till the Sulphur is dissolved, and the Balsam becomes of a rubicund colour; then strain, and keep it for use.* In the same manner you may prepare the Balsam with Oils of Anise, Amber, Juniper, Linseed, Olives, &c. See the Virtues of the Anisated Balsam.

Salmon.] § 1. ℞ *Sulphur in fine Pouder, or rather Flowers of Sulphur* ℥iv. *pure Oyl of Turpentine* ℥xvj. *put them into a Glass Matrass, which place in Sand with a digesting fire for two hours; then increase it a little for four hours, so will the Oyl dissolve part of the Sulphur, and extract out of it a red colour: Let the Vessel cool, then separate the clear Balsam from the Sulphur that will not dissolve.*

§ 2. Now here is to be noted, that in making this Balsam, the Matrass ought not to be above half full: And whereas, we here prescribe it to be made in a Sand-heat, some make it in a boiling Balneo, and fit another Matrass to it, thereby making a double Vessel.

§ 3. In this heat, whether in B. M. or Sand, the Spirit will begin to simper, and presently after the Sulphur will melt, and tinge the Oyl of a deep red colour.

§ 4. The Fire is to be so governed, as to hinder the Oyl from boiling, and in about two hours time the Operation will be done; yet it will be better to keep it in the

ſame heat for three or four hours longer.

§ 5. This done, decant the diſſolution while it is hot, into an Earthen white Ware Veſſel, ſo will the undiſſolved Sulphur, as it grows cold, ſettle to the bottom in a yellow Lump, the pure Balſam remaining above, which then you are to pour off by inclination, and keep in a Glaſs cloſe ſtopt for uſe.

§ 6. There is no need of a great Fire for this operation, becauſe the Sulphur being a fat Body, does eaſily incorporate with Oyls, and commonly gives them a red colour, that which remains undiſſolved in the Matraſs, *Lemery* ſays, is the acid or ſaline part of the Sulphur, and is found cryſtallized.

§ 7. In this Operation the Oyl draws with the colour the odour alſo of the Sulphur, ſo much, as almoſt to loſe all its own ſcent.

§ 8. *Le Mort* firſt mixes the Flowers, p. ij. with Salt of Tartar, p. j. by exactly melting them together, till they are of a blackiſh purple colour, then poudering the Maſs, adds to it double the weight of the Flowers of the Oyl of Turpentine, and then boils them in a Glaſs Matraſs in Sand, for three hours, after which being cold, he ſeparates the clear Balſam for uſe.

§ 9. And this addition of Salt of Tartar may ſeem neceſſary, for that thereby the Body of the Sulphur is in a great meaſure opened, whereby it the eaſier diſſolves and yields its Tincture to the Oyl.

§ 10. And tho' without the Salt of Tartar, the ſubſtance of the Sulphur will diſſolve in the Oyl; yet by the help thereof, the Balſam is made much more efficacious.

§ 11. So that this Balſam thus made, is nothing but a Conjunction of the Sulphur, or its Oily parts, with diſtilled Oyls, which by the addition of a fixed Salt is accelerated, for that it breaks the Chains of the acid, which holds the particles of the Sulphurous Body together.

§ 12. It is a moſt excellent Anodyn and Healer of Wounds and Burns of the Nerves, and Nervous parts.

§ 13. It cures alſo Ulcers of the Breaſt and Lungs, and is admirable againſt Coughs of all ſorts, Colds, Hoarſneſs, Loſs of Voice, Shortneſs of Breath, difficulty of Breathing, and other Diſeaſes of the Breaſt and Lungs.

§ 14. It cures alſo the pain of the Ears, being dropt into them. It heats, dries, attenuates, incides, reſolves, and provokes both Sweat and Urine. Doſe a gut. iv. ad xx.

§ 15. Modus Utendi. ℞ *of this Balſam, q. v. mix with it ſo much double or treble refined Sugar, as will make it into a kind of a rough moiſt Pouder: to which add ſo much pure freſh Butter, as may make it into the Body of a Balſam fit to be cut like Butter, of a perfect bright golden colour.*

§ 16. By this means the Balſam is rendred pleaſant both to the Eye and Palate, ſo that the moſt delicate Stomach will hardly refuſe it, it having loſt all the ſcent both of the Sulphur and the Oyl, and acquired by the mixing of the Sugar, the true ſcent of Lime-Juice, or Juice of Limons.

§ 17. But that it may have this ſmell certainly, it is requiſite that in the firſt making of the Balſam, you never give it ſo great a heat as to make it boil.

§ 18. Of

§ 18. Of this Balsam thus compounded, the Patient may take the quantity of a pretty large Chestnut, three or four several times a day, and particularly, first in the Morning fasting, and last at Night going to Bed.

§ 19. It is an admirable thing, and does wonders. Thus compounded, it is given to Children for the Worms.

§ 20. The Balsam of Sulphur may also be reduced to the Consistence of an Unguent, by evaporation, and then it is of use to cleanse and heal Wounds, especially of the Nerves and Nervous parts, and to cure old Ulcers, Running Sores, and Fistula's. See our *Pharm. Lond. lib. 3. cap. 12. sect.* 12.

XIII. *Balsamum Tartari*, Balsam of Tartar.

Bate.] ℞ *Oyl of Tartar per deliquium* ℥ix. *Cremor Tartari poudred* ℥viij. *digest and evaporate to drineſs; affuse thereon Spirit of Wine or Vinegar, with which extract a Tincture, filter and abstract to the Consistence of Honey, S. A.* It is a most powerful Medicament against the Gout and Stone, and loosens the Belly. Dose ad ʒſs. Outwardly, parts pained are Anointed therewith: It is good also against all chronick and stubborn Diseases.

Salmon.] § 1. This is the *Balsamum Samech Paracelsi*, whose usual Preparation is this: ℞ *Of the best Salt of Tartar* ℔j. *and with a sufficient quantity of Water make of it a strong Lixivium: Take also Cremor Tartari* ℔j. *and dissolve it in Rain Water by boiling: mix these Solutions together guttatim, so long till you see all the Effervescence cease, then immediately filter it, and Evaporate to the Form of a Salt.*

§ 2. *To this affuse the best Tartarised S. V. so much as may cover or over-top it three or four Inches; let it stand in digestion, so long till the S. V. has contracted the highest redness; then decant the S. V. and affuse new S. V. as before; this Work continue till you have extracted all the Tincture out of the Salt: Mix these Tinctures together, and in a Glass Alembick in B. M. draw off the one half of the Spirit, so will the Balsam remain at the bottom.*

§ 3. Now here is to be noted, that the first part of the Preparation, where the two Liquors are mixt together, till the Effervescence ceases, then filtrated and evaporated to the Form of a Salt, is that which is properly called the *Balsamum Samech*, and is given a ℈ſs. ad ʒſs. in some Diuretick Liquor.

§ 4. It is a Medicine that powerfully educes the Tartar of the Blood by Urine, and effectually expels Sand, Gravel, and Stone from the Reins and Bladder.

§ 5. For which reason it is esteemed as a potent Medicine against the Gout. It is exhibited as a Specifick against the Dropsy, Podagra, Scrophul, and Obstructions of the Terms, Green-sickness in Virgins, &c.

§ 6. The Tincture, which is the latter part of the Preparation, has all the same Virtues with the Salt, but is much more powerful to the said intentions, and may be given a ℈j. ad ʒj.

XIV. *Balsamum Veneris*, Balsam of Venus.

Bate.] *It is made of Plates of Copper, digested with Oyl of Turpentine, till a green Balsam is formed, S. A.* It chiefly cleanses Wounds, Ulcers, Fistula's, &c. being mixed with other convenient Medicaments.

Salmon.] § 1. *Schroderus in Pharm. lib.* 3. *cap.* 12. *sect.* 4. §. 3. advises to take Filings of Copper, and to add to them Spirit of Turpentine, then to digest till it is green, so have you a thing useful in Chirurgery.

§ 2. But the best way of making this Balsam is thus: ℞ *Verdigrise, and dissolve it in Spirit of Vinegar, filter, and abstract it to drineſs, or let it crystalize, so have you a pure Verdigrise.*

§ 3. *Of this take* ℥j. *Spirit or Oyl of Turpentine* ℥vj. *mix and digest, till the Oyl has drawn the Tincture of the Verdigrise into its Body.*

§ 4. It is of excellent use in all inveterate running Sores, old Ulcers, Fistula's, the Synovia, or Running of Water from Wounds, and Ulcers in the Joynts.

§ 5. And it is good also against all other stubborn and rebellious Maladies of like nature, doing that which scarcely any other Medicine will do besides; but it is not usually applied alone.

§ 6. The best way is to mix it with some other proper Oyntment or Balsam, and so apply it.

§ 7. It it a Medicament not to be despised, tho' it is composed of things of small price, and easily made.

CHAP. V.

Of ESSENSES, or POWERS.

I. *Essentia Absinthii*, Powers of Wormwood.

Bate.] ℞ *THE Spiritus Ardens, or burning and inflammable Spirit distilled from the green fermented Herb* ℥xij. *distilled Oyl of the same* ℥ij. *of the thick extract of the same Salt of Wormwood, ana* ℥ss. *digest them S. A. till they are united; then filter and keep them for use.* After the same manner you may prepare *the Potestates or Powers of other Vegetable Productions.*

Salmon.] § 1. The Ardent or Inflammable Spirit of *Wormwood* is thus made: ℞ *A good quantity of Wormwood newly gathered, bruise it, and put to it, (in a wooden Vessel) a good quantity of Wormwood-water, or rather Juice of Wormwood, in every* ℔vj. *of which dissolve* ℔j. *of Sugar, or rather as much Manna, or Honey.*

§ 2. *Let them lie to ferment, till they have acquired a Vinous scent, then distil in B. M. drawing off the third part for Spirit of Wormwood, and the second third part for Wormwood-water, what*