Flint. Marchalite. Cos.

Corticula.

Smiris. Saxum.

Pumex.

Tophus.

Precious flones.

t yin Plin Adamant.

h Some say that the bloud of a Deer or Lion will also molliste it, and make it the to be broken; melted Lead alfo mixed therewith in a burning furnace, doth the like.

not shining folid stones are these, and the like: 1. The Flint. 2. The Marchasite, or that whereof they make milltones; which being thruck with Steel, procures fire. like to the Flint, 3. Cos, which is of power to fliarpen edgetools; wherefore we commonly call it a whetstone. 4. Corticula, or Lydius lapis; which is of force to trie the truth in metalls: we therefore call it a touch-stone. c. Smiris, which is an hard stone wherewith glasiers cut their glasse: some call this an Emery. 6. Those which we name wheaten stones, or any kinde of rockie stone: or fuch as may be comprehended under the word Saxum.

Common stones lesse solid, are the Pumen and Tophus. 1. The Pumex is of a spungie nature, and is apt to fwimme by reason of the light matter whereof it confifteth. 2. The Tophus is a fand or gravell stone that may easily be rubbed to crumbes.

But come now to precious stones: and amongst them we have the noble, and the leffe noble: both which forts are begotten of a more fubtil and thin matter then common frones, and fostered with a more singular influence of the heavens. My task were (in a manner) endleffe to reckon * all forts: yet some must be remembred.

The more noble precious stones, are, 1. The Adamant or Diamond, the most precious of all stones, and the hardelt; infomuch as it cutteth glasse, and yeeldeth not either to stroke of hammer or fire: notwithstanding it is foftened with "Goats bloud being warm, foon after the hath eaten parsley or drunken wine.

Plinie maketh 6 kindes of Adamant: The I is Adamas Indicus, being neare akin to crystall; for in colour and clearenesse it is much like it: and in quantitie it is in bignesse as a filbert or hasell nut. The 2, is Adamas Arabicus, like to the other, excepting that it is something lesse. The 3. is called Cenchros, answering in bignesseto the grain of Millet. The 4. kinde is Adamas Ma- 14 cedonicus; and this is like to the feed of a Cucumber. The 5. is Adamas Cypricus; this is found in Cyprus, and tendeth somewhat to the colour of brasse. The 6. is called the * Siderite; which, although it be heavier then the other, yet it is of lesse vertue and esteem; the colour whereof is like to the colour of iron: And this, as also that of Cyprus, are tearmed by Plinie, degenerate kindes; because they will be broken by the hammer, or otherwise with blowes; and may also be cut or rased by

The third dayes work.

other Adamants. All these kindes, the two first onely excepted, are faid to have their place of generation

amongst the Gold, and in golden Mines. 2. The Saphire is a very cleare gem, very hard and of Saphire. a skie colour, growing in the East, and specially in India: the best fort hath in it as it were cloves enclining to a certain rednesse. This stone is said to be of a cold nature. and being drunk it preserveth chastitie, corroborateth the heart, helpeth against the stinging of serpents, poy-

fon and pestilence. 3. The * Smaradge is of a green transparent colour, making the aire green neare about it. The qualitie of this stone, in physick, is much like to the former, or of more vertue: for it is faid to defend the wearer from the falling sicknesse. And so greatly doth it favour chastitie, that if it be worn whilest the man and the woman accompanie themselves together, it breaketh in the

very act. 4. The Hyacinth is of a watrish colour, or rather something blew like a violet. It is exceeding hard, and cloudy in the dark, but pure and cleare by day: like unto a falle flattering friend, whose blithe looks are onely feen in time of prosperitie; but gone when the cloudie night of dark advertitie beginneth to approach: For where true friends are knit in love, there forrows are sha-O.o 3

* Some fay, that it hath power to fet variance be-tween men,

i Lib. 37. cap. 4.

Smaradge. *Plinie maketh 12 forts of this ftone,

Hyacinth. What falle friends are like

Exerc. 117.

red equally; and best are they perceived in a doubtfull matter.

Si fueris felix, multos numerabis amicos: Tempora si fuerint nubila, solus eris.

Whil'st thou art happy, many friends thou hast: But cloudie times those many friends do waste.

Moreover, this stone is of a cold qualitie, moderating the spirits of the heart and of the other parts; also it caufeth mirth, and being worn obtaineth favour, as some report.

5. The Amethyst is a gem or precious stone, which in colour refembleth a deep claret-wine; and (as t fome suppose) it hath power to resist drunkennesse.

Carbuncle

Calcedon.

Amethyft.

kAriffotle affirmieth no lesse.

6. The Carbuncle (of which Plinie writeth in his 37 book and 7 chapter) is a gem shining with a light like fire, representing a flame. Some say it is the noblest, and hath most vertues of any precious stone.

7. The Calcedon is of neare nature to the Carbuncle: it is of a purple colour, and shineth like a stariit is said to expell sadnesse and fear, by purging and chearing the spirits: it also hindreth ill and fearfull visions or dreams in a mans fleep.

Rubie.

8. The Rubieis a red gem, shining in dark like a spark of fire: it cleareth the fight, and expelleth fad and fearfull dreams.

Chrysolite.

2v. The Chrysolite is a stone of a golden colour, and shining, but brightest in the morning. It is good against melancholy; and fire is much hurtfull unto it.

Altarite.

Selenite. A flone which follows the course of the

10. The Aftarite is a cleare thining Crystalline stone, having in the midst the image of a full moon; or being turned about, the funne or the moon may be feen thining within it. Plin. lib. 37. cap. 9.

11. The Selenite is a transparent gem like glasse: it hath a kinde of spot init which bears the image of the The third dayes work.

moon, increasing and decreasing as the moon; and therefore it is called the Moon-stone. Ibid. cap. 10. It is of a white, black, and yellow colour: and the scrapings of it heal the falling ficknesse.

12. The Sardonix is a cleare gem, in colour representing the nail of a mans hand: it preserveth * chastnesse, and healeth ulcers about the nails. Albertus Magnus witneffeth that if it be hanged about the neck, it doth great-

ly corroborate the strength of the body. 13. Achates is a stone of divers colours, insomuch that the colours of other gems are not sufficient for it: fometime it is black with white veins and yellow: fometime it is as it were sprinkled with blond; & (like a Prote-

is of fo many colours that one would scarce believe it were one and the same stone. Eagles (as is said) lay it in their nelts to preserve their young from poyson. And Pyrrhus, K. of Epirus, had one of these gems in aring, in

which were the nine Muses to be seen, and Apollo with his harp; not engraven by art (faith Plinie) fed (ponte natura ità discurrentibus maculis, but on natures own accord the spots being so disposed Plinie also sheweth the di-

vers kindes of this stone in the 10 chapter of his 37. book, affirming that it is good against poyson, and stinging of scorpions; and is supposed to procure eloquence, and make men wife and fair-spoken. See more in Scal.

14. Sardius is a kinde of Onyx, of a blackish or deep | Sardius. vellow colour. " Plinie faith it is a common stone, and was found first about Sardis, but the best are neare Babylon. Some call it a * Corneoll. It stoppeth bleedings at the nose, sharpens the wit, and makes men cheerfull and merrie, and fet in a ring it restrainethanger.

15. Fasper is a green stone, pointed with spots like

drops of bloud. 16 The Topaz is a precious stone whereof there be Topaz.

* The Indians therefore used to hang it about their necks.

Achates.

How Eigler keep their young from paylon.

1 Plin.lib.37.cap.1.

m Ibid.cap. 7.

* It helpeth to flop fluxes; and is good against pyles in the flux-

Jasper.

n Ibid. cap. &.

moon

A flone that will fuddenly cool feething water.

two kindes; one of gold colour casting beams in the sun: the other of a faffron colour, not so good as the other. This stone being put into boyling water doth so presently cool it, that one may forthwith pull it out with his hand, and feel no fealding heat; or being laid to a wound. it stencheth bloud.

Emerald.

17. The Emerald is a precious stone of a green colour, fomething like unto the Smaradge,

Opall.

18. The Opall is a precious stone of divers colours, wherein appeareth the fiery shining of the Carbuncle, the purple colour of the Amethyst, and the green shew of the Emerald, very strangely mixed together.

Turcois. A compassionate ftone; the reason whereof is shew-ed in Corrath.

19. Turcon is dark, of a skie colour, and greenish It helpeth weak eyes and spirits, refresheth the heart; and. if the wearer of it be not well, it changeth colour and looketh pale and dim, but increaseth to his perfectnesse as the wearer recovereth to his health.

The sympathizing Turcois true doth tell, . By looking pale, the wearer is not well.

Crystall.

Now follow fome fuch as are leffe noble gemmes. 1. Crystall is a kinde of Ice made of waters which congeal themselves by avehement and very long cold. as for the space of 10 or 12 continuall yeares. There is some quantitie thereof found in the Alps, and other cold mountains: and being polifhed, men make thereof works of divers fashions; as Vessels, Glasses, Mirrours or Looking-glasses, and other common things. His qualitie is faid to be binding; and therefore his powder is helpfull in Laxes, and increaseth milk in womens breasts. Also another kinde is sometimes found in the earth; as in some places of Germanie.

Good against

Corrall.

2. Corrall is a stone growing in the sea like a slimie shrub, which by the aire presently is made hard and turned into a stone. The Greeks call it 2,186 Dep Spor; which is as much as if you should say, A stonie shrub. It is taken up full of mosse, but being unbarked, it appeareth cleare

The third dayes work.

in its proper colour.

The red and branchie Corrall cometh something neare in nature to the Turcois; for when it is worn by those who are shortly to fall sick, it waxeth pale and wan: the reason whereof may be, in that his tender substance is affected by the bad vapour, which is not so foon perceived in the bodie, because at the first it is not strong enough to afflict it. This stone, they say, is good against the falling sicknesse, fore eyes, and the stone. Alfo know that there be 3 kindes of Corrall; white, black, and red.

Hamatites, or the Bloudstone, is a stone outwardly of a bloudie colour, inwardly like iron; and of fuch hardnesse that the file can scarcely bite it. The qualitie of this stone is to stench bloud, either in a wound, or at the nose: also, it will eat proud flesh out of a sore. It is to be

found either in Ethiopia or Arabia.

4. Magnes, or the Loadstone, is coloured like iron, but blewer, and tending to a skie colour: it hath vertue not onely to draw iron to it felf, but also to make any iron on which it is rubbed, to draw iron also. It respecteth the North and South pole; and lofeth not this fecret vertue, unlesse it be rubbed with onions or garlick: which is certainly true, as may be proved by cutting any of the forefaid roots with a knife touched by the Loadstone. Some affirm, that physically used, it purgeth the dropfie, and helpeth the flux.

Alfo, it is supposed that there are certain magneticall hills, or mountains of Loadstone under the artick pole, and they are the causes why things touched with this stone, tend alwayes that way. But learned * Scaliger (as well he might) laugheth at this conceit. Again, others (with better probabilitie) are perswaded that the Loadstone inclineth towards the starres of the poleby a fecret fympathie;

How it comes to pase that there feems to be com-passion in a stone-

Bloudstone

Loadstone.

*In his exercises

A flone which

sympathic; even as certain flowers and plants turn themselves with the sunne. And for the attractive vertue which it also hath in drawing iron, it is supposed to be also by a kinde of sympathie and likenesse of substance. there being two causes of attraction: one is Similitudo: and the other is Fuga vacui. Heat draweth in Fugavacui; and in the similitude of substance, every part is supposed to draw its own proper nourishment. Whereupon (faith one) fith iron is as it were the aliment or

nourishment of the Loadstone, it therefore draweth iron

to it. And, that iron is a kinde of nourishment to the

o Magir. Phyf. where, by expe-rience he contra-dicteth Scaliger.

298

faid stone, appeareth in that the filed dust of iron covering it doth long preserve it; and in tract of time the dust will be confirmed; augmenting thereby the accretion of the stone. Not that it eateth, or is nourished by it as a thing having life: but even as the elements are moved to their places, as being their end and perfection; so it is in the attraction between this stone and iron, and the accretion which is caused by their reall contaction. This I think may be supposed. But I leave it to the

readers further enquirie, and abler examination.

5. Asbestos is a stone of an iron colour, which being once fired can hardly be ever quenched. Plinie faith that it is to be found in the mountains of Arcadia. Lib. 27. cap. 10.

Dendritis.

6. Dendritis is a white precious stone, which being put under a tree, keepeth the ax that cutteth it, from dulling. Idem, lib. 37. cap. 11.

Galactites. p Lib. 37. cap. 10.

Asbestos.

7. Galactites is of an ash-colour; it seemeth to sweat out a kinde of liquour like unto milk. Plinie faith it increafeth milk in nurses, and keeps the mouth of the childe moist if it be hanged about the neck, &c. some alfo fay that it helpeth running of the eyes, and ulcers.

Amphitane.

8. Amphitane is a precious stone of gold colour; square, and of the nature of the Loadstone almost, excepting cepting that it is faid to draw gold unto it. Plinie faith hath power to draw gold to it. that this stone is also called Chrysocolla, and is found in a part of India where the ants cast up gold from their hills. Lib. 37. cap. 10. o. Androdamas is a stone hard, and heavie; bright

The third dayes work.

like silver, and in form like divers little squares. It putteth away rage of lecherie: and (as the magicians think, faith Plinie) it stoppeth the force of furie and anger.

10. Panfebaftos is a precious stone taking away barrennesse.

11. There is also in Plinie, mention made of the stone Thracius, which being steeped in water burneth and sprinkles, but it is quenched with oyl.

12. Amiantus is a stone like unto alume: this, being put into the fire, is not hurt nor surried, but rather more bright and cleare. Unto which, one patient in troubles and advertities, may be likened: for his afflictions harm him not, but better him; making him look in the middelt

cleare and beautifull in the fight of heaven, by refining. But I conclude; and with him who writeth thus, cannot but fay,

of a fierie triall, not like one flurried with repining, but

Oh mickle is the pow'rfull good that lies In herbs, trees, stones, and their true qualities: For nought so vile that on the earth doth live, But to the earth some secret good doth give. And nought so rich on either rock or shelf, But, if unknown, lies uselesse to it self.

, Therefore who thus doth make their secrets known, , Doth profit others, and not hurt his own.

Now follow metalls of a more friable and brittle nature. They are more mollified bodies, may be eafily brought into crumbes or dust, are called precious earths fomething clammie, and of a middle nature between stones and the lesse pliable metalls.

First

Androdamas. Plin, Ibid.

Pansebastos. Lapis

Thracius.

Amiantus.

One patient in trouble, what he may be likened

Thefe which fol-

Earth of Lemnos.

* In Confiantinople the Apothecaries and
Druggifts fell of
this earth in
cakes, on which
dre framped certain Arabian charath Arabian cha-racters. On the fixth of August it is digged forth at Lemnos with many cereato-

Vermilion.

2.00g. 10.

Bole Armoniack. Good against the

Oker.

Arsenick.

First I begin with Terra * Lemnia, which is an exceeding red earth of Lemnos isle, digged in a red hill. In old time this had Diana's seal upon it, printed by her priests, who were onely wont to wash this earth: and now, in Silesia and Hassia, there is almost as good earth found. It is of force to relift poison, and to heal old putrified or feltered wounds.

2. Cinoper is a foftred stone, found in mines; otherwife called Vermilion: of which Plinie speaketh in his 33 book at the 7 chapter, faying, that in times past it was not onely of great, but of facred esteem among the Romanes: for they painted their gods with it; as he tells us of Jupiters image, whose face was coloured with Vermilion. So Virgil also, speaking of the shepherds god Pan, faith that he was feen,

Sanguineis Ebuli baccis, Minioque rubentem, With bloudie Walwort berries stain'd, And with Vermilion red.

Neither were their gods alone thus beautified, but their own bodies also, in publick fealts and triumphing solemnities; as we reade again in Plinie, that Camillus,

when he triumphed in Rome, was painted with this Vermilion.

3. Bele Armenian, or Bele Armoniack, is of a pale red colour, as easie to break as chalk; being of a very binding nature, and of great vertue against the plague: and secing it drieth, it profiteth against all fluxes.

4. Oker is a light clayie earth, of a red or yellow colour.

5. That which the Grecians call Arfenick, the Latines call Auripigmentum: but I had rather that Arfemick should be the generall name, and that it be divided into 3 kindes; namely, into white, red, and yellow Orpment. The white is that which is the common rats-bane. Red Arfenick is called Sandaracha; of a bright red colour, used of painters, and found in mines of gold and filver. Yellow Orpment is the right Auripigmentum; it is like unto Brimstone. This (if it be our common Arsenick) is a very dangerous drug: for it is hot and burning, fo as it gnaweth the stomack, & pierceth the bowels, producing a fever with an intolerable and an unquenchable thirst.

The third dayes work.

6. Red lead comes something neare to the nature of Vermilion:and(as*Plinie writeth out of Homer) was used by the Trojans, and honoured before they knew Vermilion. For (as Theophrastus in Plinie witnesseth) Callias of Athens first found out Vermilion, thinking indeed to draw gold out of it. Howbeit, Red lead is no minerall, but made artificially.

7. Terra Samia is a white, stiffe, and tough earth coming from the isle Samos. Plinie makes two kindes of it: the one more glutinous then the other; the other more cloddie, lesse glutinous, and whiter. He faith there be those who preferre the first as best. They are either of them good against spitting of bloud. Lib. 35. cap. 16.

8. Chalk is a white earth, which was first found in Creet, and therefore in Latine it is called Cretar But now we finde of it in many other places. Plinie makes. many kindes of Chalk; all which are not white: as in his 34 book at the 17 chapter is apparent; Fullers earth being a chief kinde among them: and that, by others, is called Creta Tasconia. Brown Umber cometh also neare to the nature of the said earth.

Calx is Lime-Chalk, which after it is burnt will be fired with water, but quenched with oyl; as authours write. It is called Caln viva, becauteit contains a kinde of hid fire in it.

10 Ampelite is a pitchie earth, cleaving and black; being much like to that which we call Pit or Sea-coal, as fome imagine: and (haply) the divertitie of climate caufeth !

Red lead. *Plm,lib.33.cap.7.

301

Earth of Samos.

Good against Spitting of bloud

Chalk.

Fullers earth. Brown Umber.

Salarie Alda, 9

Lime-Chalk.

> Black earth like our coals.

Bitumen.

Two kindes of

Hard Bleumen.

Three kindes of hard Bitumen.

Worldly vanities like to Sodome

apples.

Pissasphal-

Bitumen.

seth the difference. There is also found another earth, which * Plinie calls Pignitis, and some others Pnigitis, * Lib. 35. cap.16. and it is as black as this.

11. Bitumen is a fat and tough moisture, like Pitch: and is called Earthy Pitch. Or thus: It is a kinde of clay or naturall Lime, clammie like Pitch; and is to be found in many countreys of Asia. They who builded

the tower of Babel, used this in stead of Morter, as appeareth in Gen. chapter the 11. And so did others also in old time, making it in like manner burn in lamps in itead of ovi.

This pitchie earth is of two kindes: For it is either Hard, or Liquid.

The Hard is more strongly concreted then the other; being like unto clods of the earth, or coals. Or

(as some affirm) it is tough and moist at the first, swimming on the water, but being taken forth it waxeth hard. Of this kinde is I Asphaltus, 2 Pissasphaltus, 3 Succinum.

Asphaltus. Asphaltus is a black Bitumen, hard like stone-pitch, cleare, and smelling scarce so ill as Pitch. It is found throughout Babylon, and especially in the lake Asphal-

tites; neare unto which stood those cities of Sodome and Gomorrah, that were consumed with fire and brimftone: and where also do as yet grow apples, which (according to Solinus) are fair and fresh without, but within are full of Sulphur; and being handled they fall all to ashes: In which they are Emblemes of the vanities of this world, alwayes feeming more

then they are. Pissasphaltus is said to be Alumnie, or a kinde of Bi-

tumen somewhat * differing from Asphaltus, and is not tus. feldome found in clods rolling from mount Ceravine to Mummie. * Ashaving more pitch in it accordthe Sea; as authours witnesse. In stead of this, it is supposed that we have counterfeit Mummie often out of ing to Plin lib 35. Syria,

Syria, Egypt and some other places, which is taken from poore mens bodies that die there: For in stead of Myrrhe, Aloes, Cassia, &c. (which the rich men have

in their burialls and embalmings) the poore are dreffed and stuffed up with Bitumen. This therefore which is but counterfeit, is nothing else but a corrupted humour taken out of old tombes, which there droppeth from embalmed bodies: and most ridiculously (in my opinion) do they erre who say it is made of mans flesh boyled in Pitch. It is hot in the second degree, and good against all bruisings, spit-

ting of bloud, and divers other diseases. Succinum is a Bituminous fuck or juice of the earth. being hard as if it were a kinde of stone. It is of three

colours; White, Yellow, and Black. The White and Yellow are called Amber: and the Black is fet. They make beads of Amber. And some would have this Amber to be rather a gumme growing on a tree, then

to be a suck of the earth. The tree, by some, is called Ibex Romana. But (as others report out of Dioscorides) it falleth in manner of a liquour from Poplar trees into the river Po in Italie, where it congealeth and beco-

meth hard, in that form as we see it. Jet hath more plentie of fatnesse in it then Amber; and therefore it will burn like a candle, and smelleth like the Pine-tree. It hath an attractive vertue in it to draw chaffe, straws, and such other light stuffe unto it, especially if it be rubbed till it be hot. And these are the kindes of Hard Bitumen.

The Liquid and foft, is like an oyly moisture flowing, and is of divers colours according to the varietie of the place: but the white is faid to be most precious. And for the kindes, the chief are these; Naphtha, and Am-

ber of Arabia. Naphtha, is a liquid Bitume like unto chalkie Naphtha. clay, or (as it were) the fat of Bitume; whereunto if fire

Peore folk are glad of any thing.

Good against Succinum.

Amber.

Soft Bithmen, and his kindes.

Chap.6. 304 fire be put, it kindleth in such wise, that if a little water Water cannot quench this liquous be cast thereon, it burneth more vehemently: And indeed it hath in it such a fiery force, that it will draw fire unto it, although it be farre off. When it is found to flow out of rocks, then it is called Naphtha Petreolum: and by some, taken for oyl. In the island Sicilie are fountains, from whence great store of this liquour floweth, which they frequently burn in Lamps. Amber of Amber of Arabia, is Bitume of an ash colour, and of a Arabia. fragrant fweet finell, defired and fought after as a most precious merchandise. It is found in Arabia felix, neare unto a town which is called Sichris. Howbeit Olaus Magnus calleth that Amber, which is Sperma Ceti: but then it is Ambergreese, and rather the spawn then the feed. 12. From Bitume, I come to Alume: which is Alume. LIb. 35 . 649.15 .

faid to be a falt sweat of the earth, according to Plimie; congealing it felf with a glutinous earth and water.

It is either white or black.

The white is either cleare or thick.

The cleare is fofter and fatter then the other: This is Roch-Alume; and if paper be washed with this, it will bear ink very well, although it be bad.

Harder Alume.

The thick is more hard, and of a grayer colour. Black Alume is found in Cyprus: and with this, gold is Black Alume. purified and purged. They that defire more, may reade Plinie in his 25 book at the 15 chapter.

Vitriol.

Roch-

Alume.

13. Vitriol is a flick of the earth concreted obtaining the perspicuitie of glasse: some call it Chalcanthum. which word may fignific either Copperas or Viriol. This fuck is very poyfonous.

Salt.

14. Salt is called Sal, à saliendo; because when it is put into the fire, it skippeth and danceth. It is a friable metall.

metall, begotten of a waterish and earthie moisture, mixt and decocted together: the efficient cause whereof is the heat of the sunne and other starres; who, out of a falt matter, drawing away the thinner and the fweeter parts, leave the earthie still behinde, which being throughly rosted by heat, become falt. For there be two things requilite in a falt favour: The first, are drie and earthie parts; The other, is an adultion of the faid

parts, as Philosophers witnesse. Salt hath force to binde, to scowre and purge, to disperse, make thin, and the like: which thing Physicians can best declare. There be 2 kindes; Naturall and Artificiall. The Naturall, or Artificiall, is made or boiled Salt.

Digged Salts are gotten either from the earth, or from the waters; as some distinguish.

Salts digged out of the earth, be principally of foure

kindes. The first is Salt Ammonaick. This is found in Africa

under fand, and is something like unto alume. It is faid to be hot and drie in the fourth degree, and serveth to purge slimie humours. Some affirm that that which Apothecaries fell in black clods, is made of Camels stale; and because store of Camels be in Armenia, it is called

Armeniack. The second is Salt of Indie, of which you may reade | Salt of Inin Plinie, lib. 31. cap. 7. that it is digged out of mount die. Oromene; and that the King hath there a greater yearely

pension or custome, then out of gold and precious stones. The third is called Salt-gem, which is a kinde of glittering Salt, white, and shining after the manner of Crystall. Sometimes it is also called stonie, marblie Salt: Salt Dacian, or Sarmatick Salt.

The fourth is called Salt-nitre: and this is that which we call Salt-peter, found in drie places under ground, and in hollow rocks. Of

Salt-gem.

Salt Am-

monaick.

cerning

Buch in chronol.

e jakana

-306

* Polydore Pingil faith he was ma-king a medicine. Lib. 2. cap. 7. de Invens.

ata ya lila sa Tida Hana ka ka Jisa sa

Sect . 12.

Polid. Virg. hb.

Of this is made that fatall dust, called Pulvis Bombardicus, or Gunne-powder: the invention whereof was after this manner. A Germane Monk or Frier, of the order of S. Francis, whose name was Bertholdus Smart, being very studious in Alchymie, was one evening (for the finding out of some * experiment) very busie in tempering brimftone, sulphureous powder of dried earth. and certain other ingredients, in a mortar, which he covered with aftone: and growing dark, he took a tinderbox to light him a candle; into which whilest he assayed tostrike some fire, a spark by chance flew into the mortar, where catching hold of the brimstone and falt-peter-it fired with a fudden flash, and violently blew up the stone. The cunning Chymist, guessing which of his ingredients it was that produced this effect, never left till he found it out; then taking an iron pipe he crammed it full of the faid ingredient, together with some stones. and putting fire to it, he faw that with great furie and noise it discharged it self. Soon after, he communicated this his invention to the Venetians, who having been often vanquished by the Genowaies, did, by help of these bombards or gunnes, give them a notable discomfiture: which was in the yeare of our Lord 1380, as Bucholcerm writeth in his chronologie, faying, Hoe tempone BOMBARD & adhominum perniciem invente funt Patrol Tox & excegitata à Bertholdo Nigro Chymista, & (ut quidam volunt) Monacho Germano. Wherein we fee that he calls them bombards invented for the ruine of men. For by these (saith he) it comes to passe, that now (in a manner) all the force of the footmen, all the splendour of the horse, and all right warlike power, doth shamefully cease, lie dead, faint, and dull. Polydore also faith, that of all other instruments which ever were devised to the destruction of man, the gunnes be most devilish. In which regard (fith he was not well instructed con-

cerning the Almains name that invented them) he addeth yet thus much more, faying, For the invention he received this benefit, that his name was never known, left he might for this abominable device be cursed, and evill spoken of as long as the world remaineth. And in the continuation of Carions chronicle, by a Caspar Peucer, it is also said, a Lib. 5. pag. 817. that about the beginning of Wencessaus his reigne That raging kinde of engine and tormenting torture (which from the found we call a bombard) was found out by a Monk, t Bombarda voca-tur à bombo, idest, sonte, qui Bomthe devil being the chiefest enginer or master-workman. BOC Greed dicher. For it was their care, that seeing the authoritie of idle superstitions should decline and fade by little and little, (which through these authours had bewitched the mindes of mortalls, and cast them into eternall destruction) this might therefore succeed, by them, the same authours, as another kinde of mischief, which should rage against their bodies, as that other had done against their souls. To this purpose Peucer. And indeed an experiment of his speech we then beheld, when the upholders of that tottering kingdome would have traiterously tried to have * sent at * In the powder treason Anno .
Doin, 1601. once, even all the peers of this our land piece-meal into the aire. But he that keepeth Israel shall neither sumber nor fleep. The Lord himself was our keeper, fo that their fulphureous fire could neither burn us by day, nor fcare us by night: although Faux were taken the night before, among the barrells, and wished that then (fith he had done so much, and could do no more) his march with fire had toucht the powder. Ohnever let the mem'rie of that day Flie from our hearts, or dully slide away. God thought on us, that me remembring this, Might think on him whose hand defendeth his.

The third dayes work.

But whither am I transported now? These foure, although they be the principall kindes of falt digged from the ground, yet there be other also amongst which, Qq2

Salt of Spain,

those

those Spanish mountains would be remembred, where there is a falt cut out, and drawn as stones are out of a quarrie; in which place it afterwards increaseth, and filleth up the gap with more falt again. Du Bartas calls this the brine-quar-hill in Arragon.

The third dayes work.

Salt not digged ground.

And as for Salt digged out of waters or watrie places, or not digged from under ground, it is thus caused; namely, by the heat of the funne percocking those waters which are extreamly falt. For when falt waters are throughly concocted by the funne, they are so dried. congealed, and thickened, that in their shores, by their banks, and often upon their very furfaces or fuperficies, they render liberally good store of Salt. Thus in the

summer time is the Tarentine lake (of which Plinie

speaketh) turned into salt: the salt being in the surface

of the waters, to the depth of a mans knee. So also in

Sicilie, in the lake Coranicus. And in some rivers, the

water is known to runne underneath in its ordinary

course, whilest the uppermost part is turned into falt: as

about the Caspian * straits, which are called the rivers

of falt; and also neare the Mardi and Armenians, whose

But leaving these, I come to the second kinde of Salt.

countreys are in Asia.

more falt.

Plin, ljb. 31.

Boiled Salt.

which is artificiall and made, or boiled falt. For although the matter be naturall, yet the making is by art. From whence it comes to passe, that of one and the same falt water, this man will boil better Salt then that man; and he then another. Yea, some, out of water lesse salt, will boil and make better Salt, then others our of fountains

Many be the places where they make Salt after this manner, by boiling of falt water: neither is this kingdome of ours destitute of such fountains or wells. For at the towns called the Witches in Cheshire, there is a brinie water, which by boiling is turned into white Sale. And

And the same water is said to be as good to powder any kinde of flesh, as brine: for within 24 houres it will powder beef sufficiently. A great blessing of God to raise up fuch fprings for our use fo farre within the land: as also an evident argument, that the Sea is made falt by the substance of the ground; of which I have spoken my minde already. And here unto all this, I could adde the necessitie of

Salt; which is flich, that we cannot well live without it: and therefore it is the first thing that is set on the table, and ought to be the last taken away; according as one translateth out of Schola Salerni, faying, Salt (bould be last remov'd, and first set down

At table of a Knight, or countrey clown. This, I confesse (as pertinent) might be added; but it is now high time to put a period to the discourse of this dayes work. Take the rest therefore, all in one word; and then it is thus,

The eve and morn conclude the third of dayes, And God gives to his work deserved praise.

Qq3

CHAP.