THE WORKS OF
SIR THOMAS BROWNE
VOLUME I
PREFATORY NOTE

This edition is an endeavour to arrive at a more satisfactory text of the work of Sir Thomas Browne, and to reproduce the principal part of it, as faithfully as seems advisable, in the form in which it was presented to the public at the time of his death. For this purpose, in the first volume, the text of the Religio Medici follows more particularly the issue of 1682. The Pseudodoxia Epidemica here given is based upon the sixth edition of ten years earlier, with careful revision. In every case in which a spelling or punctuation was dubious, a comparison was made of nearly all the issues printed during the lifetime of the writer, and their merits weighed. By this means it is hoped that the true flavour of the period has been preserved.

The Annotations upon the Religio Medici, which were always reprinted with the text during the seventeenth century, are here restored. They will appeal to a certain class of readers which has a right to be considered. It is to be regretted that every quotation given in these pages has not been verified. Several have been corrected; but to have worked through
them all, in these busy days, would have been a labour
of some years, which it is not possible to devote to the
purpose. It has been thought best to leave these
passages therefore, in the main, as they stand.\(^1\)

The portrait of Sir Thomas Browne here prefixed
is reproduced from the engraving published in 1672
with the edition of the *Religio Medici* and *Pseudodoxia
Epidemica*.

\[\text{C. S.} \]

*August, 1903.*

\(^1\) The quotation, now corrected, from Montaigne, on p. xxii,
is a typical example of the pitfall into which one is liable to
stumble. The passage there cited is in chapter xl. of the French
author's later arrangement: a clear indication of the edition of
the *Essais* used by the author of the Annotations. What is one
to make of the readings in Lucretius on p. xxv? No light
is thrown upon these difficulties by the edition of Browne's
works published in 1686. Wilkin did not reprint the Anno-
tations, except in selection.
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ANNOTATIONS UPON
RELIGIO MEDICI

Nec satis est vulgasse fidel. —
THE ANNOTATOR TO THE READER

A. GELLIUS (noct. Attic. 1. 20. cap. ult.) notes some Books that had strange Titles; Pliny (Prefat. Nat. Hist.) speaking of some such, could not pass them over without a jeer: So strange (saith he) are the Titles of some Books, Ut multos ad vadimionum deferendum compellant. And Seneca saith, some such there are, Qui patri obstetricem parturienti filiae accersenti moram injicere possint. Of the same fate this present Tract Religio Medici hath partaken: Exception by some hath been taken to it in respect of its Inscription, which say they, seems to imply that Physicians have a Religion by themselves, which is more than Theologie doth warrant: but it is their Inference, and not the Title that is to blame; for no more is meant by that, or endeavoured to be prov'd in the Book then that (contrary to the opinion of the unlearned) Physicians have Religion as well as other men.

For the Work it self, the present Age hath produced none that has had better Reception amongst the learned; it has been receiv'd and foster'd by almost all, there having been but one that I knew of (to verifie that Books have their Fate from the Capacity of the Reader) that has had the face to appear against it; that is Mr. Alexander Rosse; but he is dead, and it is uncomely to skirmish with his shadow. It shall be sufficient to remember to the Reader, that the noble and most learned Knight, Sir Kenelm Digby, has delivered his opinion of it in another sort, who though in some things he differ from the Authors sense, yet hath he most candidly and ingeniously allow'd it to be a very learned and excellent Piece; and I think no Scholar will say there can be an approbation more authentique. Since the time he Published his Observations upon it, one Mr. Jo. Merryweather, a Master of Arts of the University of Cambridge, hath deem'd it worthy to be put into the universal Language, which about the year 1644 he performed; and that hath carried the Authors name not only into the Low-Countries and France (in both which places the Book in Latin hath since been printed) but into Italy and Germany; and in Germany it hath since fallen into the hands of a Gentleman of that Nation (of his name he hath given us no more than L.N.M.E.N.) who hath written learned Annotations upon it in Latin, which were Printed together with the Book at Strasbourg 1652. And for the general good

1 In his Medicus Medicatus.

2 That he was a German appears by his notes where he useth these words, Dulissima nostra Germania, etc.
opinion the World had entertained both of the Work and Author, this Stranger tells you: Inter alios Auctores incidi in librum cui Titulus Religio Medici, jam ante mihi innotuerat lectionem istius libri multos praeclaros viros delectasse, imo occupasse. Non ignorabam librum in Anglia, Gallia, Italia, Belgio, Germania, cupidissime legi; constabat mihi eum non solum in Anglia ac Batavia, sed et Parisis cum prefatione, in qua Auctor magnis laudibus fertur, esse typis mandatum. Compertum mihi erat multos magnos atq; eruditos viros sensere Auctorem (quantum ex hoc scripto perspici potest) sanctitate vitae ac pietare elucere, etc. But for the worth of the Book it is so well known to every English-man that is fit to read it, that this attestation of a Forrainer may seem superfluous.

The German, to do him right, hath in his Annotations given a fair specimen of his learning, shewing his skill in the Languages, as well antient as modern; as also his acquaintance with all manner of Authors, both sacred and profane, out of which he has amass'd a world of Quotations: but yet, not to mention that he hath not observed some Errors of the Press, and one or two main ones of the Latin Translation, whereby the Author is much injured; it cannot be denied but he hath pass'd over many hard places untoucht, that might deserve a Note; that he hath made Annotations on some, where no need was; in the explication of others hath gone besides the true sense.

And were he free from all these, yet one great Fault there is he may be justly charg'd with, that is, that he cannot manum de Tabula even in matters the most obvious: which is an affectation ill-becoming a Scholar; witness the most learned Annotator, Claud. Minos. Div. in prefat. commentar. Alcat. Emblem. præf. Præstat (saith he) brevius omnia persequi, et leviter attingere quæ nemini esse ignota suspicari possint, quam quasi ᾱαψυδεῖν, perq; locos communes identidem expatiari.

I go not about by finding fault with his, obliquely to commend my own; I am as far from that, as 'tis possible others will be; All I seek, by this Preface, next to acquainting the Reader with the various entertainment of the Book, is, that he would be advertized that these Notes were collected ten* years since, long before the German's were written; so that I am no Plagiary (as who peruseth his Notes and mine, will easily perceive): And in the second place, that I made this Recueil meerly for mine own entertainment, and not with any intention to evulge it; Truth is my witness, the publication proceeds meerly from the importunity of the Book-seller (my special friend) who being acquainted with what I had done, and about to set out another Edition of the Book, would not be denied these notes to attest to it; 'tis he (not I) that divulgeth it, and whatever the success be, he alone is concern'd in it; I only say for my self what my Annotations bear in the Frontispiece—

Nec satis est vulgasse fidem—

1 In Prefat. Annotat.

2 Excepting two or three particulars in which reference is made to some Books that came over since that time.
That is, that it was not enough to all persons (though pretenders to Learning) that our Physicians had publish'd his Creed, because it wanted an exposition. I say further, that the German's is not full; and that (—Quicquid sum Ego quamvis infra Lucilli censum ingeniumq;—) my explications do in many things illustrate the Text of my Author.

24 Martii,
1654.
The Epistle to the READER

CERTAINLY that man were greedy of life, who should desire to live when all the World were at an end;] This Mr. Merryweather hath rendered thus; Cupidum esse vitæ oportet, qui universo jam expirante mundo vivere cuperet; and well enough: but it is not amiss to remember, that we have this saying in Seneca the Tragedian, who gives it us thus, Vita est avidus quisquis non vult mundo secum pereunte mori.

There are many things delivered Rhetorically.] The Author herein imitates the ingenuity of St. Austin, who in his Retract. corrects himself for having delivered some things more like a young Rhetorician than a sound Divine; but though St. Aug. doth deservedly acknowledge it a fault in himself, in that he voluntarily published such things, yet cannot it be so in this Author, in that he intended no publication of it, as he professeth in this Epistle, and in that other to Sir Kenelm Digby.

THE FIRST PART

The general scandal of my Profession.] Physicians (of the number whereof it appears by several passages in this Book the Author is one) do commonly hear ill in this behalf. It is a common speech (but only amongst the unlearn'd sort) Ubi tres Medici, duo Athei. The reasons why those of that Profession (I declare my self that I am none, but Causarum Actor Mediocris, to use Horace his Phrase) may be thought to deserve that censure, the Author rendreth Sect. 19.

The natural course of my studies.] The vulgar lay not the imputation of Atheism only upon Physicians, but upon Philosophers in general, who for that they give themselves to understand the operations of Nature, they calumniate them, as though they rested in the second causes without any respect to the
RELIGIO MEDICI

first. Hereupon it was, that in the tenth Age Pope Silvester PART I. the second pass’d for a Magician, because he understood Geometry and natural Philosophy. Baron. Annal. 990. And Apuleius long before him laboured of the same suspicion, upon no better ground; he was accus’d, and made a learned Apology for himself, and in that hath laid down what the ground is of such accusations, in these words: Hæc fœrmè communi quodam errore imperitorum Philosophis objectantur, ut partem eorum qui corporum causas meras et simplices rimantur, irreligiosos putant, eosque aïunt Deos abnuere, ut Anaxagoram, et Lucippum, et Democritum, et Epicurum, cæterosq; rerum naturæ Patronos. Apul. in Apolog. And it is possible that those that look upon the second Causes scattered, may rest in them and go no further, as my Lord Bacon in one of his Essays observeth; but our Author tells us there is a true Philosophy, from which no man becomes an Atheist, Sect. 46.

The indifferency of my behaviour and Discourse in matters of Religion.] Bigots are so oversway’d by a preposterous Zeal, that they hate all moderation in discourse of Religion; they are the men forsooth—qui solos credant habendos esse Deos quos ipsi colunt. Erasmus upon this accompl makes a great complaint to Sir Tho. More in an Epistle of his, touching one Dorpius a Divine of Lovain, who because, upon occasion of discourse betwixt them, Erasmus would not promise him to write against Luther, told Erasmus that he was a Lutheran, and afterwards published him for such; and yet as Erasmus was reputed no very good Catholick, so for certain he was no Protestant.

Not that I meerly owe this Title to the Pont] as most do, taking up their Religion according to the way of their Ancestors; this is to be blamed among all persons: It was practised as well amongst Heathens as Christians.

Per caput, hoc juro per quod Pater antè solebat, saith Ascanius in Virgil: and Apuleius notes it for an absurdity. Utrum Philosopho, putas turpe scire ista, an nescire? negligere, an curare? nosse quanta sit etiam in istis providentia ratio, an de diis immortalibus Matri et Patri cedere? saith he in Apolog. and so doth Minutius. Unusquisq; vestrum non cogitat prius se debere deum nosse quæm colere, dum inconsulte gestiuntur parentibus obedire, dum fieri malunt alieni erroris accessio, quam sibi credere. Minut. in Octav.

But having in my ripers examined, etc.] according to the Apostolical Precept, Omnia probate, quod bonum est tenete. There being a Geography of Religion] i.e. of Christian Religion, Sect. 2. Pag. 8. which you may see described in Mr. Brerewood’s Enquiries: he means not of the Protestant Religion; for though there be a difference in Discipline, yet the Anglican, Scotic, Belgic, Gallican, and Helvetic Churches differ not in any essential matter of the Doctrine, as by the Harmony of Confessions
PART I. appears. 5. Epist. Theod. Bezae Edmundo Grindallo Ep. Lon-
dinensis.

Wherein I dislike nothing but the Name] that is Lutheran, Calvinist, Zuinglian, etc.

Now the accidental occasion wherein, etc.] This is graphically described by Thuanus in his History: but because his words are too large for this purpose, I shall give it you somewhat more briefly, according to the relation of the Author of the History of the Council of Trent. The occasion was the necessity of Pope Leo the Tenth, who by his profusion had so exhausted the Treasure of the Church, that he was constrained to have recourse to the publishing of Indulgencies to raise monies: some of which he had destined to his own Treasury, and other part to his Allyes, and particularly to his Sister he gave all the money that should be raised in Saxony; and she, that she might make the best profit of the donation, commits it to one Aremboldus, a Bishop to appoint Treasurers for these Indulgences. Now the custome was, that wh ensever these Indulgences were sent into Saxony, they were to be divulged by the Fryars Eremites (of which Order Luther then was), but Aremboldus his Agents thinking with themselves, that the Fryars Eremites were so well acquainted with the trade, that if the business should be left to them, they should neither be able to give so good an account of their Negotiation, nor yet get so much themselves by it as they might do in case the business were committed to another Order; they thereupon recommend it to (and the business is undertaken by) the Dominican Fryars, who performed it so ill, that the scandal arising both from thence, and from the ill lives of those that set them on work, stirred up Luther to write against the abuses of these Indulgences; which was all he did at first; but then, not long after, being provoked by some Sermons and small Discourses that had been published against what he had written, he rips up the business from the beginning, and publishes xcv Theses against it at Wittenberg. Against these Tekel a Dominican writes; then Luther adds an explication to his. Eckius and Prierius Dominicans, thereupon take the controversie against him: and now Luther begins to be hot; and because his adversaries could not found the matter of Indul-
gences upon other Foundationes then the Popes power and infallibility, that begets a disputacion betwixt them concerning the Popes power, which Luther insists upon as inferior to that of a general Council; and so by degrees he came on to oppose the Popish Doctrine of Remission of sins, Penances, and Purgatory; and by reason of Cardinal Cajetans imprudent management of the conference he had with him, it came to pass that he rejected the whole body of Popish doctrine. So that by this we may see what was the accidental occasion wherein, the slender means whereby, and the abject condition of the person
by whom, the work of Reformation of Religion was set on PART I. foot.

Yet I have not so shaken hands with those desperate Resolutions, Sect. 3. (Resolvers it should be, without doubt) who had rather venture at large their decayed Bottom, than bring her in to be new trimm’d in the Dock; who had rather promiscuously retain all, than abridge any; and obstinately be what they are, than what they have been; as to stand in a diameter and at swords point with them: we have reformed from them, not against them, etc.] These words by Mr. Merryweather are thus rendred, sc. Nec tamen in vecordem illum pertinacium hominum gregem memet adjungo, qui labefactatum navigium malunt fortuneæ committere quàm in navale de integro resarciiendum deducere, qui malunt omnia promiscuè retinere quam quicquam inde diminuere, et pertinaciter esse qui sunt quam qui olim fuerunt, ita ut iisdem ex diametro repugnet: ab illis, non contra illos, reformationem instituimus, etc. And the Latine Annotator sits down very well satisfied with it, and hath bestowed some notes upon it; but under the favour both of him and the Translator, this Translation is so far different from the sense of the Author, that it hath no sense in it; or if there be any construction of sense in it, it is quite besides the Author’s meaning; which will appear if we consider the context: by that we shall find that the Author in giving an account of his Religion, tells us first, that he is a Christian, and farther, that he is of the reform’d Religion; but yet he saith, in this place, he is not so rigid a Protestant, nor at defiance with Papists so far, but that in many things he can comply with them, (the particulars he afterwards mentions in this Section) for, saith he, we have reform’d from them, not against them, that is, as the Archbishop of Canterbury against the Jesuit discourseth well. We have made no new Religion nor Schism from the old; but in calling for the old, and desiring that which was novel and crept in might be rejected, and the Church of Rome refusing it, we have reform’d from those upstart novel Doctrines, but against none of the old: and other sense the place cannot bear; therefore how the Latine Annotator can apply it as though in this place the Author intended to note the Anabaptists, I see not, unless it were in respect of the expression Vecordem pertinacium hominum gregem, which truly is a description well befitting them, though not intended to them in this place: howsoever, I see not any ground from hence to conclude the Author to be any whit inclining to the Bulk of Popery (but have great reason from many passages in this Book to believe the contrary,) as he that prefix’d a Preface to the Parisian Edition of this Book hath unwarrantably done.

But for the mistake of the Translator, it is very obvious from whence that arose. I doubt not but it was from mistake of the sense of the English Phrase Shaken hands, which he hath
rendered by these words, Memet adjungo, wherein he hath too much play'd the Scholar, and show'd himself to be more skilful in forraign and antient customs, then in the vernacular practise and usage of the language of his own Country; for although amongst the Latines protension of the Hand were a Symbole and sign of Peace and Concord (as Alex. ab Alexandro; Manum verò pretendere, pacem peti significabant (saith he) Gen. Dier. lib. 4. cap. ult. which also is confirmed by Cicero pro Dejotaro; and Cæsar. l. 2. de Bellico Gallico) and was used in their first meetings, as appears by the Phrase, Jungere hospitio Dextrus; and by that of Virgil,

Oremus pacem, et Dextras tendamus inermes,

And many like passages that occur in the Poets, to which I believe the Translator had respect; yet in modern practise, especially with us in England, that ceremony is used as much in our Adieu's as in the first Congress; and so the Author meant in this place, by saying he had not shaken hands; that is, that he had not so desertd, or bid farewell to the Romanists, as to stand at swords point with them: and then he gives his reasons at those words, For omitting those improperations, etc. So that instead of memet adjungo, the Translator should have used some word or Phrase of a clean contrary signification; and instead of ex diemetro repugnent, it should be repugnem.

Henry the Eighth, who, though he rejected the Pope, refused not the faith of Rome.] So much Buchanan in his own life written by himself testifieth, who speaking of his coming into England about the latter end of that King's time, saith, Sed ibi tum omnia adeo erant incerta, ut eodem die, ac eodem igne (very strange !) utriusque factionis homines cremarentur, Henrico 8, jam seniore sua magnis securitati quam Religionis puritati intento. And for the confirmation of this assertion of the Author, vide Stat. 31. H. 8, cap. 14.

And was conceived the state of Venice would have attempted in our dayes.] This expectation was in the time of Pope Paul the Fifth, who by excommunicating that Republique, gave occasion to the Senate to banish all such of the Clergy as would not by reason of the Popes command administer the Sacraments; and upon that account the Jesuits were cast out, and never since receiv'd into that State.

Or be angry with his judgement for not agreeing with me in that, from which perhaps within a few days I should dissent my self.] I cannot think but in this expression the Author had respect to that of that excellent French Writer Monsieur Mountaign (in whom I often trace him). Combien diversement jugeons nous de choses? Combien de fois changeons nous nos fantasies? Ce que je tien aujourd'hui, ce que je croy, je le tien et le croy de toute ma Creance, mais ne m'est il pas advenu non une

Every man is not a proper Champion for truth, etc.] A good cause is never betray’d more than when it is prosecuted with much eagerness, and but little sufficiency; and therefore Zuing-lius, though he were of Caroloostadius his opinion in the point of the Sacrament of the Eucharist against Luther, yet he blamed him for undertaking the defence of that cause against Luther, not judging him able enough for the encounter: Non satis habet humerorum, saith he of Carolostad, alluding to that of Horace, Sumite materiam vestris qui scribites aquam Viribus, et versate diu quid ferre recusent Quid valeant humeri.— So Minutius Felix; Plerumq; pro disserentium viribus, et eloquentiae potestate, etiam perspicue veritatis conditio mutetur. Minut. in Octav. And Lactantius saith, this truth is verified in Minutius himself: for Him, Tertullian and Cyprian, he spares not to blame (all of them) as if they had not with dexterity enough defended the Christian cause against the Ethniques. Lactant. de justitia, cap. 1. I could wish that those that succeeded him had not as much cause of complaint against him: surely he is noted to have many errors contra fideon.

In Philosophy—there is no man more Paradoxical then my Pag. 13. self, but in Divinity I love to keep the Road, etc.] Appositely to the mind of the Author, saith the Publisher of Mr. Pembel’s Book de origine formarum, Certe (saith he) in locis Theologicis ne quid detrimenti capiat vel Pax, vel Veritas Christi— à novarum opinionum pruritu prorsus abstinendum puto, usq; adeo ut ad certam regulam etiam loqui debeamus, quod pie et prudenter monet Augustinus (de Civ. Dei. l. 10, cap. 23.) [ne verborum licentia impia vi gignat opinionem.] at in pulvere Scholastico ubi in nullius verba juramus, et in utramvis partem sine dispendio vel pacis, vel salutis ire liceat, major conceditur cum sentiendi tum loquendi libertas, etc. Capel. in Ep. Dedicat. Pembel. de origine form. praefix.

Heresies perish not with their Authors, but like the River Arethusa, though they lose their Currents in one place, they rise again in another.] Who would not think that this expression were taken from Mr. Mountaigne, l. 2, des Ess. cap. 12. Where he hath these words, Nature enserre dans les termes de son progress ordinaire comme toutes autres choses aussi les creances les jugements et opinions des hommes elles ont leur revolutions; and that Mountaigne took his from Tully. Non enim hominum interitu sententiae quoque occidunt, Tull. de nat. deorum l. 1, etc. Of the River Arethusa thus Seneca. Videbis celebratissimum carnibus fontem Arethusam limpidissimi ac perludicissimi ad imum stagni gelidissimas aquas profundenter, sive illas primum nascentes inventi, sive flumen integrum subter tot maria, et d confusione pejoris undæ servatum reddidit. Senec. de consolat. ad Mart-tiam.
PART I. Now the first of mine was that of the Arabians.] For this Heresie, the Author here sheweth what it was; they are called Arabians from the place where it was fostered; and because the Heresiarch was not known, Euseb. St. Aug. and Nicephorus do all write of it: the reason of this Heresie was so specious, that it drew Pope John 22, to be of the same perswasion. Where then was his infallibility? Why, Bellarmine tells you he was nevertheless infallible for that: for, saith he, he maintained this opinion when he might do it without peril of Heresie, for that no definition of the Church whereby 'twas made Heresie, had preceded when he held that opinion. Bellar. l. 4, de Pontif. Roman. cap. 4. Now this definition was first made ('tis true) by Pope Benedict in the 14 Age: but then I would ask another question, that is, If 'till that time there were nothing defined in the Church touching the beatitude of Saints, what certainty was there touching the sanctity of any man? and upon what ground were those canonizations of Saints had, that were before the 14 Age?

The second was that of Origen.] Besides St. Augustine, Epiphanius, and also S. Hierom, do relate that Origen held, that not only the souls of men, but the Devils themselves should be discharged from torture after a certain time: but Genebrard endeavours to clear him of this. Vid. Coquœum, in 21. lib. Aug. de Civ. Dei. cap. 17.

These opinions though condemned by lawful Councils, were not Heresie in me, etc.] For to make an Heretique, there must be not only Error in intellectu, but pertinacia in voluntate. So St. Aug. Qui sententiam suam quamvis falsam atque perversam nulla pertinaciam animositate defendunt, quœrunt autem cautæ sollicitudine veritatem, corrigit parati cum invenerint, nequœquam sunt inter Hereticos deputandii. Aug. cont. Manich. 24. qu. 3.

The deepest mysteries ours contains have not only been illustrated, but maintained by Syllogism and the Rule of Reason,] and since this Book was written, by Mr. White in his Institutiones Sacrae.

And when they have seen the Red Sea, doubt not of the Miracle.] Those that have seen it, have been better informed then Sir Henry Blount was, for he tells us that he desired to view the passage of Moses into the Red Sea (not being above three days journey off) but the Jews told him the precise place was not known within less than the space of a days journey along the shore; wherefore (saith he) I left that as too uncertain for any Observation. In his Voyage into the Levant.

I had as lieve you tell me that Anima est Angelus hominis, est corpus Dei, as Entelechia; Lux est umbra Dei, as actus perspicui.] Great variety of opinion there hath been amongst the Ancient Philosophers touching the definition of the Soul. Thales, his was, that it is a Nature without Repose. Asclepiades, that it is an Exercitation of Sense. Hesiod, that it is a thing composed of
Earth and Water; Parmenides holds, of Earth and Fire; Galen
that it is Heat; Hippocrates, that it is a spirit diffused through
the body. Some others have held it to be Light; Plato saith,
'tis a Substance moving itself; after cometh Aristotle (whom
the Author here reproveh) and goeth a degree farther, and
saith it is Entelechia, that is, that which naturally makes the
body to move. But this definition is as rigid as any of the
other; for this tells us not what the essence, origine or nature of
the soul is, but only marks an effect of it, and therefore signifieth
no more than if he had said (as the Author’s Phrase is) that it
is Angelus hominis, or an Intelligence that moveth man, as he
supposed those other to do the Heavens.

Now to come to the definition of Light, in which the Author
is also unsatisfied with the School of Aristotle, he saith, It satis-
fieth him no more to tell him that Lux est actu perspicui, than
if you should tell him that it is umbra Dei. The ground of this
definition given by the Peripateticks, is taken from a passage in
Aristot. de anima l. 2, cap. 7, where Aristotle saith, That the
colour of the thing seen, doth move that which is perspicuum
actu (i.e. illustratam naturam quae sit in aere altiove corpore trans-
parente) and that that, in regard of its continuation to the eye,
moveth the eye, and by its help the internal sensorium; and
that so vision is perform’d. Now as it is true that the Sectators
of Aristotle are to blame, by fastening upon him by occasion of this
passage, that he meant that those things that made this impress
upon the Organs are meer accidents, and have nothing of sub-
stance; which is more than ever he meant, and cannot be main-
tained without violence to Reason, and his own Principles; so
for Aristotle himself, no man is beholding to him for any Science
acquir’d by this definition: for what is any man the near for his
telling him that Colour (admitting it to be a body, as indeed it
is, and in that place he doth not deny) doth move actu per-
spicuum, when as the perspicuity is in relation to the eye; and
he doth not say how it comes to be perspicuous, which is the
thing enquired after, but gives it that donation before the eye
hath perform’d its office; so that if he had said it had been
umbra Dei, it would have been as intelligible, as what he hath
said. He that would be satisfied how Vision is perform’d, let
him see Mr. Hobbs in Tract. de nat. human. cap. 2.

For God hath not caused it to rain upon the Earth.] St. Aug.
de Genes. ad litteram, cap. 5, 6, salves that expression from any
inconvenience; but the Author in Pseudodox. Epidemic. l. 7,
cap. 1, shews that we have no reason to be confident that this
Fruit was an Apple.

I believe that the Serpent (if we shall literally understand it)
from his proper form and figure made his motion on his belly before
the curse.] Yet the Author himself sheweth in Pseudodox.
Epidemic. lib. 7, cap. 1, that the form or kind of the Serpent is
PART I. not agreed on: yet Comestor affirm'd it was a Dragon, Eugubinus a Basilisk, Delrio a Viper, and others a common Snake: but of what kind soever it was, he sheweth in the same Volume, lib. 5, c. 4, that there was no inconvenience, that the temptation should be perform'd in this proper shape.

I find the tryal of Pucelage and the Virginity of Women which God ordained the Jews, is very fallible.] Locus extat, Deut. c. 22, the same is affirm'd by Laurentius in his Anatom.

Whole Nations have escaped the curse of Child-birth, which God seems to pronounce upon the whole sex.] This is attested by M. Mountaigne. Les doleurs de l'enfantiment par les medicins, et par Dieu mesme estimees grandes, et que nous passons avec tant de Ceremonies, il y a des nations entieres qui ne'n fuit nul conte. l. 1, des Ess. c. 14.

Who can speak of Eternity without a Solacism, or think thereof without an Extasie? Time we may comprehend, etc.] Touching the difference betwixt Eternity and Time, there have been great disputes amongst Philosophers; some affirming it to be no more than duration perpetual consisting of parts; and others (to which opinion, it appears by what follows in this Section, the Author adheres) affirmed (to use the Authors Phrase) that it hath no distinction of Tenses, but is according to Boetius (lib. 5, consol. pros. 6), his definition, interminabilis vitæ tota simul et perfecta possessio. For me, non nostrum est tantas componere lites. I shall only observe what each of them hath to say against the other. Say those of the first opinion against those that follow Boetius his definition, That definition was taken by Boetius out of Plato's Timeus, and is otherwise applied, though not by Boetius, yet by those that follow him, than ever Plato intended it; for he did not take it in the Abstract, but in the Concrete, for an eternal thing, a Divine substance, by which he meant God, or his Anima mundi: and this he did, to the intent to establish this truth, That no mutation can befal the Divine Majesty, as it doth to things subject to generation and corruption; and that Plato there intended not to define or describe any species of duration: and they say that it is impossible to understand any such species of duration that is (according to the Authors expression) but one permanent point.

Now that which those that follow Boetius urge against the other definition is, they say, it doth not at all difference Eternity from the nature of Time; for they say if it be composed of many Nunc's, or many instants, by the addition of one more it is still increased; and by that means Infinity or Eternity is not included, nor ought more than Time. For this, see Mr. White, de dial. mundo, Dial. 3. Nod. 4.

Indeed he only is, etc.] This the Author infers from the words of God to Moses, I am that I am; and this to distinguish him from all others, who (he saith) have and shall be: but
those that are learned in the Hebrew, do affirm that the words PART I.
in that place (Exod. 3) do not signify, Ego sum qui sum, et
qui est, etc. but Ero qui ero, et qui erit, etc. vid Gassend. in

I wonder how Aristotle could conceive the World Eternal, or how Sect. 12.
he could make two Eternities:] (that is, that God, and the World Pag. 20.
both were eternal.) I wonder more at either the ignorance or
incogitancy of the Conimbricenses, who in their Comment upon
the eighth book of Aristotle’s Physicks, treating of the matter of
Creation, when they had first said that it was possible to know
it, and that actually it was known (for Aristotle knew it) yet for
all this they afterwards affirm, That considering onely the light
of Nature, there is nothing can be brought to demonstrate Creation: and yet farther, when they had defined Creation to
be the production of a thing ex nihilo, and had proved that the
World was so created in time, and refused the arguments of the
Philosophers to the contrary, they added this, That the World
might be created ab aeterno: for having propos’d this question
[Num aliquid à Deo ex Aeternitate procreari potuit?] they defend
the affirmative, and assert that not onely incorporeal substances,
as Angels; or permanent, as the celestial Bodies; or corruptible
as Men, etc. might be produced and made ab aeterno, and be
conserved by an infinite time, ex utraq; parte; and that this is
neither repugnant to God the Creator, the things created, nor
to the nature of Creation: for proof whereof, they bring
instances of the Sun which if it had been eternal, had illumin-
ated eternally, (and the virtue of God is not less than the virtue
of the Sun.) Another instance they bring of the divine Word,
which was produced ab aeterno: in which discourse, and in the
instances brought to maintain it, it is hard to say whether the
madness or impiety be greater; and certainly if Christians thus
argue, we have the more reason to pardon the poor heathen
Aristotle.

There is in us not three, but a Trinity of Souls.] The Peripatetiques
held that men had three distinct Souls; whom the Heretiques,
the Anomaei, and the Jacobites, followed. There arose a great
dispute about this matter in Oxford, in the year 1276, and it
was then determined against Aristotle. Daneus Christ. Eth. 1. 1.
c. 4. and Suarez in his Treatise de causa formalis, Quest. An
dentur plures formas in uno composito, affirmeth there was a Synod
that did anathematize all that held with Aristotle in this point.

There is but one first, and four second causes in all things.] In Sect. 14.
that he saith there is but one first cause, he speaketh in opposi-
tion to the Manichees, who held there were Duo principia; one
from whom came all good, and the other from whom came all
evil: the reason of Protagoras did it seems impose upon their
understandings; he was wont to say, Si Deus non est, unde
igitur bona? Si autem est, unde mala? In that he saith there
are but four second Causes, he opposeth Plato, who to the four causes, material, efficient, formal, and final, adds for a fifth exemplar or Idea, sc. Id ad quod respiciens artifex, id quod destinabat efficit; according to whose mind Boetius speaks, ibid. 3. met. 9. de cons. Philosoph.

O qui perpetua mundum ratione gubernas,
Terrarum Cæliq; sator qui tempus ab ævo
Ire jubes, stabilisq; manenae das cuncta moveri:
Quem non externæ pepulerunt fingere causæ
Materiæ fluitantis opus, verum insita summi
Forma boni livre carens: tu cuncta superno
Ducis ab exemplo, pulchrum pulcherrimus ipse
Mundum mente gerens, similique in imagine formans,
Perfectasq; jubes perfectum absolvere partes.

And St. Augustine l. 33. quest. 46. where (amongst other) he hath these words, Restat ergo ut omnia Ratione sint condita, nec cedam ratione homo qua equus; hoc enim absurdum est existimare: singula autem propriis sunt creata rationibus. But these ideæ Plato's Scholar Aristotle would not allow to make or constitute a different sort of cause from the formal or efficient, to which purpose he disputes, l. 7. Metaphysic. but he and his Sectators, and the Ramists also, agree (as the Author) that there are but the four remembred Causes: so that the Author, in affirming there are but four, hath no Adversary but the Platonists; but yet in asserting there are four (as his words imply) there are that oppose him, and the Schools of Aristot. and Ramus. I shall bring for instance Mr. Nat Carpenter, who in his Philosophia Libera affirmeth, there is no such cause as that which they call the Final cause: he argueth thus: Every cause hath an influence upon its effect: but so has not the End, therefore it is not a Cause. The major proposition (he saith) is evident, because the influence of a cause upon its effect, is either the causality it self, or something that is necessarily conjoynd to it: and the minor as plain, for either the End hath an influence upon the effect immediately, or mediately, by stirring up the Efficient to operate; not immediately, because so it should enter either the constitution or production, or conservation of the things; but the constitution it cannot enter, because the constitution is only of matter and form; nor the Production, for so it should concur to the production, either as it is simply the end, or as an exciter of the Efficient; but not simply as the end, because the end as end doth not go before, but followeth the thing produced, and therefore doth not concur to its production: if they say it doth so far concur, as it is desired of the agent or efficient cause, it should not so have an immediate influence upon the effect, but should onely first move the
efficient. Lastly, saith he, it doth not enter the conservation PART I. of a thing, because a thing is often conserved, when it is Sect. 14. frustrate of its due end, as when it's converted to a new use and end. Divers other Arguments he hath to prove there is no such cause as the final cause. Nat. Carpenter Philosoph. liber Decad. 3. Exercitat. 5. But for all this, the Author and he differ not in substance: for 'tis not the Author's intention to assert that the end is in nature præexistent to the effect, but only that whatsoever God has made, he hath made to some end or other; which he doth to oppose the Sectors of Epicurus, who maintain the contrary, as is to be seen by this of Lucretius which follows.

There are no Grotesques in nature, etc.] So Monsr. Montaign. Sect. 15. Il n'ya rien d'inutile en nature, non pas l'inutilité mesmes, Rien ne s'est ingéré en cet Univers qui n'y tienne place opportun. Ess. l. 3. c. 1.

Who admires not Regio-montanus his Fly beyond his Eagle?]

Of these Du Bartas.

Que diray je de l'aigle,
D'ont un doct Aleman honore nostre siecle
Aigle qui deslogeant de la maistresse main,
Aila loin au devant d'un Empereur Germain;
Et l'ayant rencontré suddain d'une aiso accorte,
Se tournant le suit au seuil de la porte
Du fort Norembargois, que lis piliers dorez,
Les tapissez chemins, les arcs elabourez,
Les fourdroyans Canons, in la jeuxnesse isnelle,  
In le chena Senat, n'honnoroit tant comme elle.  
Vn jour, que cetominer plus des esbats, que de mets,  
En privé fasteyoit ses seignieurs plus amees,  
Vne mousche de fer, dans sa main recelee:  
Prêt sans ayde d'autroy, sa gallard evolee:  
Fit une entiere Ronde, et puis d'un cerveau las  
Come ayant jugement, se purcha sur son bras.

Thus Englished by Silvester.

Why should not I that wooden Eagle mention?  
(A learned German's late admir'd invention)  
Which mounting from his Fist that framed her,  
Flew far to meet an Almain Emperour:  
And having met him, with her nimble Train,  
And weary Wings turning about again,  
Followed him close unto the Castle Gate  
Of Noremberg; whom all the shews of state,  
Streets hang'd with Arras, arches curious built,  
Loud thundring Canons, Columns richly guilt,  
Grey-headed Senate, and youth's gallantise,  
Gra'd not so much as onely this device.  
Once as this Artist more with mirth than meat,  
Feasted some friends that he esteemed great;  
From under's hand an Iron Fly flew out,  
Which having flown a perfect round about,  
With weary wings, return'd unto her Master,  
And (as judicious) on his arm she plac'd her.

Or wonder not more at the operation of two souls in those little bodies, than but one in the Trunk of a Cedar?] That is, the vegetative, which according to the common opinion, is supposed to be in Trees, though the Epicures and Stoiques would not allow any Soul in Plants; but Empedocles and Plato allowed them not only a vegetative Soul, but affirm'd them to be Animals. The Manichees went farther, and attributed so much of the rational Soul to them, that they accounted it Homicide to gather either the flowers or fruit, as St. Aug. reports.

We carry with us the wonders we seek without us.] So St. Aug. l. 10. de civ. c. 3. Omni miraculo quod fit per hominem majus miraculum est homo.

Another of his servant Nature, that publique and universal Manuscript that lies expansed, etc.] So is the description of Du Bartas 7. jour de la sepm.

Oyes ce Docteur muet estudie en ce livre  
Qui nuict et jour ouvert l' apprendra de bien vivre.
RELIGIO MEDICI

All things are artificial, for Nature is the Art of God.] So Mr. PART I. Hobbes in his Leviathan (in initio) Nature is the Art whereby God governs the world.

Directing the operations of single and individual Essences, etc.] Sect. 17. Things singular or individuals, are in the opinion of Philosophers not to be known, but by the way of sense, or by that which knows by its Essence, and that is onely God. The Devils have no such knowledge, because whatsoever knows so, is either the cause or effect of the thing known; whereupon Averroes concluded that God was the cause of all things, because he understands all things by his Essence; and Albertus Magnus concluded, That the inferior intelligence understands the superiour, because it is an effect of the superiour: but neither of these can be said of the Devil; for it appears he is not the effect of any of these inferior things, much less is he the cause, for the power of Creation onely belongs to God.

All cannot be happy at once, because the Glory of one State depends upon the ruine of another.] This Theme is ingeniously handled by Mr. Montaigne livr. 1. des Ess. cap. 22. the title whereof is, Le profit de l'un est dommage de l'autre.

'Tis the common fate of men of singular gifts of mind, to be destitute of those of Fortune.] So Petron. Arbiter. Amor ingenii neminem unquam dividit fecit, in Satyrig. And Apuleius in Apolog. Idem mihi etiam (saith he) paupertatem opprobravit acceptum Philosopho crimen et ulteri profitendum; and then a little afterwards, he sheweth that it was the common fate of those that had singular gifts of mind: Eadem enim est paupertas apud Graecos in Aristide justa, in Phocyone benigna, in Epaminonde strenua, in Socrate sapiens, in Homero diserta.

We need not labour with so many arguments to confute judicial Astrology.] There is nothing in judicial Astrology that may render it impious; but the exception against it is, that it is vain and fallible; of which any man will be convinced, that has read Tully de Divinat. and St. Aug. book 5. de Civ. dei.

There is in our soul a kind of Triumvirate — that distracts the peace of our Commonwealth, not less than did that other the State of Rome.] There were two Triumvirates, by which the peace of Rome was distracted; that of Crassus, Caesar and Pompey, of which Lucan, I. 1.

—Tu causam aliorum—

Facta tribus Dominis communis Roma, nec unquam in turbam missi feralia fiedera Regni.

And that other of Augustus, Antonius and Lepidus, by whom, saith Florus, Respublica convulsa est lacrataque, which comes somewhat near the Author's words, and therefore I take it that he means this last Triumvirate.
PART I. Would dissuade my belief from the miracle of the brazen Serpent.] Vid. Coqueum in, l. 10. Aug. de Civ. Dei, c. 8. And bid me mistrust a miracle in Elias, etc.] The History is 18. 1 Reg. It should be Elias. The Author in 15. cap. lib. 7. Pseudodox. sheweth it was not perform'd naturally; he was (as he saith) a perfect miracle.

To think the combustion of Sodom might be natural.] Of that opinion was Strabo, whereupon he is reprehended by Genebrard in these words: Strabo falsus est — dum erosionem addicit sulphuri et bitumin e terra erumpentibus, quae erat assignanda Celo, i.e. Deo irato. Tacitus reports it according to the Bible, fulminis ictu arsissi.

Those that held Religion was the difference of man from Beasts, etc.] Lactantius was one of those: Religioni ergo serviendum est, quam qui non suspect, ipse se prosternit in terram, et vitam pecudum securitas humanitate se abdicat. Lactant de fals. Sapientia, cap. 10. The Doctrine of Epicurus that denied the providence of God, was no Atheism, but, etc.] I doubt not but he means that delivered in his Epistle to Menaceus, and recorded by Diogenes Laertius, lib. 10. Quod beatum externumque est, id nec habet ipsum negotii quicquam, nec exhibet alteri, itaque neque ira, neque gratia tenetur, quod quae talia sunt imbecillia sunt omnia; which the Epicurean Poet hath delivered almost in the same words.

Omnis enim per se divum natura necesse est
Immortali ævo summa cum pace fruatur,
Semota à nostris rebus sejuncta; longè:
Num privata dolore omni, privata periclis
Ipsa suis pollens opibus nihil indigat nostri
Nec bene pro meritis capitur, nec tangitur ira.

Lucret. lib. 2.

That Villaine and Secretary of Hell, that composed that miscreant piece of the three Impostors.] It was Ochinus that composed this piece; but there was no less a man than the Emperour Frederick the Second, that was as lavish of his tongue as the other of his pen; Cui scepe in ore, Tres fuisse insignes Impostores, qui genus humanum seduxerunt: Moysem, Christum, Mahumetem. Lips. monit. et exempl. Politic. cap. 4. And a greater than he, Pope Leo the Tenth, was as little favourable to our Saviour, when he us'd that speech which is reported of him, Quantas nobis divitias comparavit ista de Christo fabula. There are in Scripture stories that do exceed the fables of Poets.] So the Author of Relig. Luci. Certè mira admodum in S.S. plus quam in reliquis omnibus Historiis traduntur; (and then he concludes with the Author) sed quae non retundunt intellectum, sed excercent. Yet raise no question who shall rise with that Rib at the Resur-
The Author cap. 2 l. 7. Pseudodox. sheweth that it PART I. appeares in Anatomy, that the Ribs of Man and Woman are Sect. 21. equal.

Whether the world were created in Autumn, Summer, or the Spring, etc.] In this matter there is a consent between two learned Poets, Lucretius and Virgil, that it begins in Spring.

At novitas mundi nec frigora dura ciebat,
Nec nimios aestus, nec magnis viribus auras. Lucretius.

Which he would have to be understood of Autumn, because that resembles old age rather than Infancy. He speaks expressly of the Fowls.

Principio genus alituum variæq; volucres
Ova relinquebant excluscB tempore verno. Lucret.

Then for Virgil.

Non alios prima nascentis origine mundi
Illuxisse dies alitumve habuisse tenorem
Crediderim, ver illud erat, ver magnus agebat
Orbis, et hibernis parcebant flatibus Euri.

Virgil 2. Georgic.

But there is a great difference about it betwixt Church-Doctors; some agreeing with these Poets and others affirming the time to be in Autumn: but truly, in strict speaking, it was not created in any one, but all of the seasons, as the Author saith here, and hath shewed at large. Pseudodox. Epidemic. lib. 6. cap. 2.

'Tis ridiculous to put off or down the general floud of Noah in Sect. 22. that particular inundation of Deucalion,] as the Heathens some of them sometimes did: Confuderunt igitur sepe Ethnici particularia illa diluvia, quaE longe post secuta sunt, cum illo universal quod præcessit, ut ex fabulis in Diluvio Deucalionæo sparsis colligere licet; non tamen semper nec ubique. Author. Observat. in Mytholog. Nat. Com. Then amongst those that confound them, he reckons Ovid and Plutarch.

How all the kinds of Creatures, not onely in their own bulks, but with a competency of food and sustenance, might be preserved in one Ark, and within the extent of 300 Cubits, to a reason that rightly examines it will appear very feasible.] Yet Apelles the Disciple of Merecion, took upon him to deride the History of Moses in this particular, alledging that it must needs be a fable, for that it was impossible so many creatures should be contain'd in so small a space. Origen and St. Aug. to answer this pretended difficulty, alledge that Moses in this place speakes of Geometrical (and not vulgar) cubits, of which every one was as much as six vulgar ones; and so no difficulty. But Perer. 1. 10. com. in
PART I. Genes. quest. 5. de arca, rejects this opinion of Origen, as being both against reason and Scripture.

1. Because that sort of Cubit was never in use amongst any people, and therefore absurd to think Moses should intend it in this place.

2. If Moses should not speak of the same Cubits here, that he mentions in others places, there would be great equivocation in Scripture: now in another place, i.e. Exod. 27, he saith, God commanded him to make an Altar three Cubits high; which if it shall be meant of Geometrical Cubits it will contain 18 vulgar Cubits; which would not only render it useless, but would be contrary to the command which he saith God gave him, Exod. 20. Thou shalt not go up by steps to my Altar. For without steps what man could reach it. It must therefore be meant of ordinary Cubits; but that being so it was very feasible. I can more easily believe than understand it.

And put the honest Father to the Refuge of a Miracle.] This honest father was St. Aug. who delivers his opinion, that it might be miraculously done, lib. 16. de Civ. Dei, cap. 7. where having propos’d the question how it might be done, he answers, Quod si homines eas captas secum adduxerunt, et co modo ubi habitabant earum genera instituerunt, venandi studio fieri potuisse incredibile non est, quamvis jussu Dei sive permissa etiam opera Angelorum negandum non sit potuisse transferri; but St. Aug. saith not that it could not be done without a miracle.

And 1500 years to people the World, as full a time, etc.] That Methusaleh was the longest liv’d of all the children of Adam, etc. See both these Points cleared by the Author, in Pseudodox. Epidemic. the first lib. 6. cap. 6. the other lib. 7. cap. 3.

That Judas perished by hanging himself, there is no certainty in Scripture, though in one place it seems to affirm it, and by a doubtful word hath given occasion to translate it; yet in another place, in a more punctual description it makes it improbable, and seems to overthrow it. These two places that seem to contradict one another are Math. 27. 5. and Acts 1. 8. The doubtful word he speaks of is in the place of Matthew; it is ἀπηγγείλατο, which signifieth suffocation as well as hanging, (ἀπελθὼν ἀπηγγείλατο, which may signify literally, after he went out he was choak’d) but Erasmus translates it, abiens laqueo se suspendit: the words in the Acts are, When he had thrown down himself headlong, he burst in the midst, and all his bowels gushed out; which seems to differ much from the expression of Matthew; yet the Ancient Writers and Fathers of the Church do unanimously agree that he was hanged. Some I shall cite. Anastas. Sinaita, l. 7. Anagog. Contempl. Unus latro ingratus cum esset typus Diaboli, et Serpentis, et Judæ, qui se in ligno suffocavit. Gaudentius Brixiens. tract. 13. de natal. Dom. Mortem debitam laqueo sitimet
intulit praeparato, etc. Droggotoshen. de sacram. dominic. pass. PART I. 
Jamdiu erat quidem quod Christo recesserat, et avaritie laqueo se
suspenderat, sed quod fecerat in occulto, palam omnibus innotuit.
S. Martialis in Ep. ad Thalosanos. Non sustinuit penitentiam,
donec laqueo mortis seipsum consumpsit. Ignat. ad Philippens.
Diabolus laqueum ei ostendit, et suspensum docuit. Leo Serm. 3.
de passion.— Ut quia facinus omnem mensuram ultionis
excesserat, te haberet impietas tua judicem te pateretur sua pana
Carnificem. Theodoret. lib. 1. haeretic. Fabul. Ille protinus
strangulatus est, quae fuit merces ejus proditio. Chrysostom.
Hom. 3. de prodiore. Pepepndit Celum Terramque intermedium
vago funere suffocatus, et cum flagitio suo tumefacta, viscera
crepuerunt, etc. Bernard. Serm. 8. in Psal. 9. Judas in Aere
crepuit medius.

1. There are those that are so particular, that they acquaint
us with the manner, as that it was done with a Cord. Antiochus
Laurensi, Spem omnem a se cum abjecisset, insiliente in eum
imimico (sc. Diabolo) funiculo sibi præfocavit gulam. Oecumen.
in Act. Fracto funiculo quo erat suffocatus decidit in terram
precipitio. 2. That it was done on a Fig-Tree, Beda. Portam
David egredientibus fons occurrit in Austrum per vallem directus,
ad cujus medietatem ab occasu Judas se suspendisse narratur:
Nam et ficus magna tibi et vetustissima stat.

Exorsus; suas laqueo sibi sumere pænas,
Informem rapuit ficus de vertice mortem.

3. Some acquaint us with the time when it was done, vix. the
next day after he had given the kiss. So Chrysostom. Homil. 1. de
præditar. et Mysterio Cen. Dominic. Gutter prophanum quod
hodie Christo extendis ad osculum, crastino es illud extensusus ad
laqueum. But there are two, that is Euthymius and Oecumenius,
that tell us, that the hanging did not kill him, but that either the
Rope broke, or that he was cut down, and afterwards cast him-
down headlong, as it is related in the before mentioned
place of the Acts: Agnitus à quibusdam depositus est ne præfo-
caretur, denique postquam in secreto quodam loco modico vixisset
tempore præceps factus sive præcipitatus, inflatus diruptus, ac
diffusus est medius, et effusa sunt omnia viscera ejus; ut in Actis.
Euthym. cap. 67. in Math. Judas suspendio à vita non recessit, sed
supervixit, dejectus est enim prius quam præfocaretur, idque
in Act. And this may serve to reconcile these two seemingly
disagreeing Scriptures.

That our Fathers after the Flood erected the Tower of Babel.] Pag. 37.
For this see what the Author saith in his Pseudodox. Epidemic.
l. 7. cap. 6.
And cannot but commend the judgment of Ptolemy. He means of Ptolemeus Philadelphus, who founded the Library of Alexandria, which he speaks of in the next Section. He was King of Egypt; and having built and furnish'd that Library with all the choicest Books he could get from any part of the world, and having good correspondence with Eleazer the high Priest of the Jews, by reason that he had released the Jews from Captivity, who were taken by his Predecessor Ptolemaeus Lagi; he did by the advice of Demetrius Phalereus the Athenian, whom he had made his Library-Keeper, write to Eleazer, desiring him that he would cause the Books of the Jews, which contained their Laws, to be translated for him into Greek, that he might have them to put into his Library: to which the Priest consents; and for the King's better satisfaction, sends to him Copies of the Books, and with the same 72 Interpreters skilled both in the Greek and Hebrew Language, to translate them for him into Greek; which afterwards they performed. This is for certain; but whether they translated only the Pentateuch, as St. Jerome would have it, or together with the Books of the Prophets also, as Leo de Castro and Baronius contend, I undertake not to determine: but as to that part of the story, that these Interpreters were put into so many several Cells, whilst they were about the work of translation; and notwithstanding they were thus severed, that they all translated it totidem verbis; it is but reason to think with St. Jerome (notwithstanding the great current of Authority against him) that it is no better than a fable.

The Alcoran of the Turks (I speak without prejudice) is an ill-composed piece, containing in it vain and ridiculous errors in Philosophy, etc.] It is now in every mans hand, having been lately translated into English; I shall therefore observe but these few particulars in it, in regard the book it self is so common; and indeed they are not mine own, but Lipsius his observations. He begins, O nugas, O deliria! primum (saith he) commentus est, Deum unum solidum; (διόσφυρον Ἰεραιμιπροσμυντ) eundemq; incorporem esse. Christum non Deum, sed magnum vatem et prophetam; se tamen majorem, et proxime à Deo missum, praemia qui ipsum audient Paradisum, qui post aëruit annorum millia reserabitur, ibi quatuor flumina lacte, vino, melle, aqua fluere, ibi palatia et ædificia gemmata atque aurata esse, carnes avium suavissimarum, fructus omne genus quos sparsi jacentesque sub umbra arborum edent: sed caput faæcitatis, viros feminasque, majores solito magnis Gentialibus assidua libidine, et ejus usu sine lario aut fattigatione. These and some others that are in the Alcoran he reckons up. Sed et Physica quoq; miranda (saith he) nam facit Solem et Lunam in equis vehi, illum autem in aquam calidam vespere mergi, et bene lotum ascendere atque oriri, Stellas in aere e catenis aureis pendere: terram in bovini cornus cuspidæ stabilitum, et agitante se bove ac succutiente fieri terræ.
RELIGIO MEDICI

motum; hominem autem ex hirundine aut sanguisuga nasi, etc. PART I. Just. Lips. Monit. et exempl. Politic. cap. 3.

I believe besides Zoroaster there were divers others that wrote before Moses.] Zoroaster was long before Moses, and of great name; he was the father of Ninus, Justin. lib. 1. Si quamlibet modicum emolumentum probaveritis, ego ille sim Carinondas vel Damigeron, vel is Moses, vel Ioannes, vel Apollonius, vel ipse Dardanus, vel quicunque; aliquus post Zoroastreum et Hostanem, inter Magos celebratus est. Apuleius in Apol.

Others with as many groans deplore the combustion of the Library at Alexandria. This was that Library before spoken of, set up by Ptolemaeus Philadelphus; in which 'tis reported by Ammianus Marcellinus there were 700,000 volumes; it was burnt by Jul. Caesar's means, whose Navy being environed before Alexandria, he had no means to keep off the Enemy, but by flinging of fire, which at length caught the Library and consumed it, as Plutarch hath it in Vita Caesaris: but notwithstanding we have no reason to believe it was quite consumed, because Sueton. in Claudius, tells us, that that Emperour added another to it; and there must be somewhat before, if it were an addition; but true it is, too many of the Books perished; to repair which loss, care was taken by Domitian the Emperour, as the same Sueton. and Aurel. Victor. do relate.

I would not omit a Copy of Enoch's Pillars, had they many nearer Authors than Josephus, etc.] For this the Story is, that Enoch, or his father Seth, having been inform'd by Adam, that the world was to perish once by water, and a second time by fire, did cause two Pillars to be erected, the one of Stone against the water, and another of Brick against the fire; and that upon those Pillars was engraven all such Learning as had been delivered to, or invented by mankind; and that thence it came that all knowledge and learning was not lost by means of the Floud, by reason that one of the Pillars (though the other perished) did remain after the Floud, and Josephus witnesseth, till his time, lib. 1. Antiq. Judaeic. cap. 3.

Of those three great inventions of Germany, there are two which are not without their incommodities.] Those two he means are Printing and Gunpowder, which are commonly taken to be German Inventions; but Artillery was in China above 1500 years since, and Printing long before it was in Germany, if we may believe Juan Concales Mendosa in his Hist. of China, lib. 3. cap. 15, 16. The incommodities of these two inventions are well described by Sam. Daniel, lib. 6. of the Civil Wars.

Fierce Nemesis, mother of fate and change,
Sword-bearer of th' eternal providence,
Turns her stern look at last into the West,
As griev'd to see on Earth such happy rest;
And for Pandora calleth presently,
Pandora Jove's fair gift that first deceived
Poor Epimetheus in his imbecility.
That though he had a wondrous boon received,
By means whereof curious mortality
Was of all former quiet quite bereaved.
To whom being come deckt with all qualities,
The wrathful goddess breaks out in this wise:
Dost thou not see in what secure estate,
Those flourishing fair Western parts remain?
As if they had made covenant with fate,
To be exempted free from others pain,
At one with their desires, friends with debate,
In peace with Pride, content with their own gain.
Their bounds contain their mindes, their mindes applyed
To have their bonds with plenty beautified.

Devotion (Mother of Obedience)
Bears such a hand on their credulity,
That it abates the spirit of eminence,
And busies them with humble piety:
For see what works, what infinite expence,
What Monuments of zeal they edifie,
As if they would, so that no stop were found,
Fill all with Temples, make all holy ground.

But we must cool this all-believing zeal,
That hath enjoy'd so fair a turn so long, etc.
Dislike of this first by degrees shall steal,
As upon souls of men persuaded wrong;
And that the sacred power which thus hath wrought,
Shall give her self the sword to cut her throat.

Go therefore thou with all thy stirring train
Of swelling Sciences (the gifts of grief)
Go loose the links of that soul-binding chain,
Enlarge this uninquisitive Belief:
Call up mens spirits, that simpleness retain,
Enter their hearts, and knowledge make the Thief
To open all the Doors to let in Light,
That all may all things see but what is right.

Opinion arm against opinion (grown)
Make new-born contradictions still arise,
As if Thebes Founder (Cadmus) tongues had sown
Instead of teeth, for greater mutinies:
Bring new defended faith against faith known,
Weary the soul with contrarieties,
Till all Religion become Retrograde,
And that fair tye the mask of sin be made:
And better to effect a speedy end,
Let there be found two fatal Instruments,
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The one to publish, th’ other to defend
Impious contention, and proud discontents:
Make that instamped characters may send
Abroad to thousands, thousand mens intents;
And in a moment may dispatch much more,
Than could a world of pens perform before;
Whereby all quarrels, titles, seccries,
May unto all be presently made known,
Factions prepar’d, parties altur’d to rise,
Seditions under fair pretences sown;
Whereby the vulgar may become so wise
That with a self-presumption overgrown,
They may of deepest mysteries debate,
Controll their letters, censure acts of State.
And then when this dispersed mischief shall
Have brought confusion in each mystery,
Call’d up contents of State in general,
And ripen’d the humour of impiety,
Then take the other engine wherewithal
They may torment their self-wrought misery;
And scourge each other in so strange a wise,
As time or tyrants never could devise, etc.

See Bellermontan. in his Dissertat. politic. dissert.
29. and 30.

For the other Invention, the Latine Annotator doubts
whether the Author means Church-Organs, or Clocks? I
suppose he means Clocks, because I find that Invention reckon’d
by a German, with the other two, as a remarkable one. It is
by Busbequius, speaking of the Turks, who hath these words:
Testes majores minoresque bombardæ, multaque alia quæ ex nostris
excogitata ipsi ad se avertunt; ut libros tamen typis excuderent,
horologia in publico haberent, nondum adduci potuerunt. Epist.
Legat. Turcic. I suppose if he had known any Invention which
next to the other two had been greater than this, he would not
have named this, and this being the next considerable, we have
no cause to doubt but the Author meant it.

To maintain the Trade and Mystery of Typographers.] Of this
Cuneus in his Satyre Sardi venales. Qui bis in anno nomen
sum ad Germanorum mundinas non transmittit, eruditionem suam
in ordinem coactam credit, itaç; manquam tot fungi una pluvia
nascuntur, quod nunc libri uno die.

The Turk in the bulk that he now stands, is beyond all hope of Sect. 25.
conversion.] That is, in respect of his great strength, against
which it is not probable the Christians will prevail, as it is
observed by Monsieur de Silhon. La Race des Ottomans (saith he)
quia oaste a Dieu la Religion qu’il a revelee, et aux hommes la
liberte que le droit des Gens leur laisse a fait tant de progres depuis

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PART I.  

Sect. 25.  

Mr. de Silhon en son Minist. D’Estat. l. 1. c. 1.

None can more justly boast of persecutions, and glory in the number and valour of martyrs.] Of the fortitude of the Christians in this particular, Minutius Felix, in the person of the Ethnique, hath these words, Per mira stultitia et incredibili audacia spernunt tormenta presentia, dum incerta metuant et futura; et dum mori post mortem timent, interim mori non timent. And afterwards, when he speaks in the person of the Christian, he saith, that Christian women and children have in this surpassed Scævola and Regulus: Viros (saith he) omn Mutio vel cum Attilo Regulo comparo: pueri et mulierculæ nostræ cruces et Tormenta, feros et omnes suppliciorum terriculas inspirata patientia doloris illudunt. Minut. in Octav. vide Aug. de Civit. Dei, lib. 1. c. 23, 24.

If we shall strictly examine the circumstances and requisites which Aristotle requires to true and perfect valour, we shall find the name onely in his Master Alexander, (that is, no more than the name) and as little in that Roman worthy Julius Caesar.] Aristotle. 3. Ethic. cap. 6. amongst other requisites, requires to valour, that it keep a mediocrity betwixt audacity and fear; that we thrust not our selves into danger when we need not; that we spare not to shew our valour when occasion requires: he requires for its proper object, Death; and to any death, he prefers death in War, because thereby a man profits his Country and Friends; and that he calls mors honesta, an honest or honourable death: and thereupon he defines a valiant man to be, Is qui morte honesta proposita, iisq; omnibus quæ cum sint repentina mortem adfuuerunt metu vacat. So that by the Author’s saying, there was onely the Name in Alexander, he means only that which is rendred in the two last words, metu vacans, and not the rest that goes to make up the definition of a valiant man, which is very truly affirmed of Alexander, who exposed himself to hazzard many times when there was no cause for it: As you may read in Curtius, he did, in the siege of Tyrus, and many other ways. Cettuy-cy semble rechercher et courir à force les dangiers comme un impétueux torrent, qui choque et attaque sans discretion, et sans choix tout ce qu’il rencontre, saith Montaign, speaking of Alexander, l. 2. des Ess. cap. 34. And for Caesar, it cannot be denied, but in his Wars he was many times (though not so generally as Alexander) more adventrous than reason military could warrant to him; and therefore Luuan gives him no better Character than

Acer et indomitus quo spes quoq; ira vocasset
Ferre manum, etc.

Lucan. lib. 1.
To instance in some Particulars: with what an inconsiderable strength did he enterprize the conquest of Egypt, and afterwards went to ataque the forces of Scipio and Juba, which were ten times more than his own? after the Battle of Pharsalia, having sent his Army before into Asia, and crossing the Hellespont with one single Vessel, he there meets Lucius Cassius with ten men of War, he makes up to him, summons him to render, and he does it. In the famous and furious siege of Alexia, where he had 80,000 men to make defence against him, and an Army of one hundred and nine thousand Horse, and two hundred and forty thousand foot, all marching towards him, to raise his siege; yet for all that he would not quit the siege, but first fought with those without, and obtain’d a great Victory over them, and soon afterwards brought the besieged to his mercy.

The Council of Constance condemns John Husse for an Heretick, the Stories of his own Party style him a Martyr.] John Husse did agree with the Papists against us in the Point of Invocation of Saints, Prayers and Sacrifice for the Dead, free Will, Good Works, confession of Sins, seven Sacraments, etc. Gordon. Hunt. l. contr. 3. de Sacr. Euch. cap. 17. Yet was he condemned for maintaining certain Articles said by that Council to be heretical and seditious, and was burnt for Heresie. Now as I will not say he was an Heretick, so can I not maintain that he was a Martyr, if it be but for this one Article, which in the 15. Sess. of that Council was objected against him, which he did acknowledge, but would not recal, i.e. Nullus est Dominus civilis, dum est in peccato mortali. If that Doctrine should be believed, we shall have little obedience to Civil Magistrates; and without that, how miserable is humane condition? That which begat compassion towards Husse in those of his own Party was, that he had a safe conduct from the Emperour Sigismund; and therefore it was, say they, a violation of publick faith in the Council and Emperour in putting him to death.

That wise heathen Socrates that suffered on a fundamental point of Religion, the Unity of God.] That Socrates suffered on this Point, divers Christian Writers do object to the Ethniques, as Justin Martyr, Apol. 2. Euseb. l. 5. de præparat. Evangelic. c. 14. Tertul. in Apolog. cap. 14. and Lactant. de justitia, cap. 15. whose words are these: Plato quidem multa de uno Deo locutus est, a quo ait constitutum esse mundum, sed nihil de Religione; somniaverat enim Deum, non cognoverat. Quod si justitiae defensionem vel ipse vel quilibet alius implore voluisset, imprimis Deorum Religiones evertere debuit, quia contraria Pietati. Quod quidem Socrates quia facere tentavit in carcerem conjectus est, ut jam tunc appareret quid esset futurum iis hominibus qui justitiam veram defendere Deoque singulari servire coepissent.

I have often pitted the miserable Bishop that suffered in the
PART I. cause of Antipodes.] The suffering was, that he lost his Bishoprick for denying the Antipodes. Vid. Aventin. in Hist. Boio. Besides him, there were other Church-men of great note, that denied Antipodes, as Luctantius, Augustin, and Bede.

Sect. 26.

I hold that God can do all things: How he should work contradicitions, I do not understand, yet dare not therefore deny.] Who would not think the Author had taken this from Mr. Montaign, whose words are, Il m'a toujours semble qu'a un homme Christien, cette sorte de parler est plein d' indiscretion et d' irreverence [Dieu ne se peut disdire;] [Dieu ne peut faire cecy ou cela]. Je ne trouve pas bon d'enfermer ainsi la puissance divine sous les loix de nostre parole. Et l'apparence qui s'offre à nous en ses propositions, il la faudroit representer plus reveremment, et plus Religieusement. Liv. 2. des Ess. c. 12.

I cannot see why the Angel of God should question Esdras to recal the time past, if it were beyond his own power, or that God should pose mortality in that which he was not able to perform himself.] Sir K. Digby in his Notes upon this place saith, There is no contradiction in this, because he saith it was but putting all things that had motion into the same state they were in at that moment, unto which time was to be reduced back, and from thence letting it travel on again by the same motions, etc. which God could do. But under favour, the contradiction remains, if this were done that he mentions; for Time depends not at all upon motion, but has a being altogether independent of it, and therefore the same revolution would not bring back the same time, for that was efflux'd before; as in the time of Joshua, when the Sun stood still, we cannot but conceive, though there were no motion of the Sun, but that there was an efflux of Time, otherwise, how could the Text have it, That there was not any day, before or after, that was so long as that? for the length of it must be understood in respect of the flux of time. The reasoning of Sir Kenelme is founded upon the opinion of Aristot. who will needs have it, that Time cannot be without mutation; he gives this for a reason, because when we have slept, and cannot perceive any mutation to have been, we do therefore use to connect the time of our sleeping and of our awakening together, and make but one of it: to which it may be answered, although some mutation be necessary, that we may mark the flux of time, it doth not therefore follow that the mutation is necessary to the flux it self.

Sect. 28.

I excuse not Constantine from a fall off his Horse, or a mischief from his enemies, upon the wearing those nails, etc.] Hac de re videatur P. Diaec. hist. miscell.

Sect. 29.

I wonder how the curiosity of wiser heads could pass that great and indisputable miracle, the cessation of Oracles.] There are three opinions touching the manner how the predictions of these Oracles were perform'd: Some say by vapour, some by the
intelligence, or influences of the Heavens, and others say by PART I.
the assistance of the Devils. Now the indisputable miracle the
Author speaks of, is, that they ceas'd upon the coming of
Christ; and it is generally so believed; and the Oracle of
Delphos delivered to Augustus, mentioned by the Author in this
Section, is brought to prove it, which is this:

Me puer Hebraus divos Deus ipse gubernans
Cedere sede jubet, tristemq; redire sub orcum.
Aris ergo dehinc tacitus discedito nostris.

But yet it is so far from being true that their cessation was
miraculous, that the truth is, there never were any predictions
given by those Oracles at all.
That their cessation was not upon the coming of Christ, we
have luculent testimony out of Tully, in his 2. lib. de Divinat.
which he writ many years before Christ was born; who tells us
that they were silent (and indeed he never thought they were
otherwise) long before that time, insomuch that they were come
into contempt: Cur isto modo oracula Delphos non eduntur,
non modo nostra estate, sed jamdiu jam ut nihil possit esse con-
temptius. So that for that of Delphos, which was the most
famous of them all, we see we have no reason to impute the
cessation of it to Christ; Why therefore should we do so for
any of the rest?
For their predictions, let us consider the three several ways
before mentioned, whereby they are supposed to operate; and
from thence see whether it be probable that any such Oracles
ever were.
The first Opinion is, that it was by exhalation or vapour
drawn up from the earth; and gives this for a reason of their
being, that they were for a time nourished by those exhalations;
and when those ceased, and were exhausted, the Oracles
famish'd and died for want of their accustom'd sustenance: this
is the far-fetcht reason given by Plutarch for their defect; but
'twas not devised by him, but long before, as appears, in that
Tully scoffs at it, lib. de divinat. De vino aut salsamente putes
loqui (saith he) quae evanescunt vetustate. This seem'd absurd
to others, who do therefore say this was not to be attributed
to any power of the Earth, but to the power of the Heavens,
or Intelligences Celestial; to certain aspects whereof, they say,
the Statua's of those Oracles were so adapted, that they might
divine and foretell future events. But yet to others, this way
seemeth as absurd as the others; for, say they, admitting that
there were an efficacy in the Heavens, more than in the Earth;
yet how can it be that men should come by the skill to fit the
Statua's to the Aspects or influences of the Heavens? or if at
any time they had such skill, why should not the same continue
the rather, because men are more skilled in the motions of the Heavens, of later than in the former time? Again, they do not see how it should be that the cause should be of less excellency than the effect; for if a man (say they) can by his industry make such Oracles, why can he not produce the same effect in another man? for if you affirm that the Heavens influence is requisite, they will tell you that Influence may happen as well to a man, as to a Statue of wood or stone. Therefore the third sort being unsatisfied, which either of the former ways conclude, that this was perform'd by the Devil; but for that it will appear as contrary to Reason and Philosophy, as either of the former; for Philosophy teacheth that things singular, or individual, are to be known only by sense, or by such an Intellect, as doth know by its Essence; and Theology teacheth that God only knoweth the heart, and that the Devil doth not know by sense, nor by essence; and since 'tis admitted by all, that most of the answers that were pretended to be given by those Oracles, were de rebus singularibus, or individuis; it is evident that these predictions were not perform'd by Devils. How then? why those predictions which the ignorant Heathen took to come from Heaven, and some Christians (not less ignorant) from the Devil, was nothing but the jugling and impostures of the Priests, who from within the Statua's gave the answers; which Princes connived at, that they might upon occasion serve their turns upon the ignorance of the people; and the learned men, for fear of their Princes, durst not speak against it. Lucian hath noted it, and so a more Authentick Author, Minut. Felix, in Octav. Authoritatem quasi præsentis numinis consequuntur dum inspirantur interim vatibus. But in process of time, the people grew less credulous of their Priests, and so the Oracles became to be silent: Cum jam (saith he) Apollo versus facere desisset, cujus tunc cautum illud et ambiguum defectit oraculum; Cum et politiores homines et minus creduli esse ceperunt. Sir H. Blount in his Levantine voyage, saith he saw the Statua of Memnon so famous of old; he saith it was hollow at top, and that he was told by the Egyptians and Jews there with him, that they had seen some enter there, and come out at the Pyramid, two Bows-shoot off; then (saith he) I soon believe'd the Oracle, and believe all the rest to have been such; which indeed, is much easier to imagine than that it was perform'd by any of the three ways before mentioned. St. Aug. hath composed a Book, where he handleth this point at large, and concludes that the Devils can no more foretel things to come, than they are able to discern the thoughts that are within us. Aug. lib. de Scientia Daemon. 

Till I laughed my self out of it with a piece of Justin, where he delivers that the Children of Israel for being scabbed were banished out of Egypt.] These words of Justin are, Sed cum seabiem
What sort of Witches they were that the Author knew to be such, I cannot tell; for those which he mentions in the next Section, which proceed upon the principles of Nature, none have denied that such there are; against such it was, that the Lex Julia de veneficiis was made, that is, those, Qui noxio poculo aut impuris medicaminibus aliquem fuerint insectati. Al. ab Alex. Gen. Dier. l. 5. c. 1. But for the opinion that there are Witches which co-operate with the Devil, there are Divines of great note, and far from any suspicion of being irreligious, that do oppose it. Certainly there is no ground to maintain their being from the story of Oracles, as may be seen from what hath been said on the precedent Section.

Nor have the power to be so much as Witches.] Pliny saith, so it fared with Nero, who was so hot in pursuit of the Magick Arts, that he did dedicate himself wholly to it, and yet could never satisfy himself in that kind, though he got all the cunning men he could from the East, for that purpose. Plin. l. 3. Nat. Hist. c. 1.

By conjunction with the Devil.] Though, as the Author saith, it be without a possibility of Generation, yet there are great men that hold, that such carnality is performed; as August. in Levit. Aquin. l. 2. de qu. 73. art. ad 2. and Justin Martyr, Apol. 1.

It is no new opinion of the Church of Rome, but an old one of Pythagoras and Plato.] This appears by Apuleius a Platonist, in his Book de Deo Socratis, and elsewhere. See Mede's Apostasie of the latter times, where out of this and other Authors, you shall see collected all the learning de Genii.

I cannot with those in that great Father securely interpret the work of the first day, Fiat lux, to the creation of Angels.] This great Father is S. Chrysost. Homil. in Genes. But yet 'tis his opinion, as also of Athanasius and Theodoret, that there is expression mention of the creation of Angels, so that they need not rest upon this place, which they admit to be somewhat obscure. The place which they take to be express, is that of the 130 Psalm, where David begins to speak of the Majesty of God, in this manner: Confessionem sive majestatem et decorum induisti, amictus lumine sicut vestimento: Next he speaks of the Heavens, saying, Thou hast stretched them out over us like a Tent.
PART I.

Sect. 42.
Pag. 61.

Illic Æmonia radices valle resectas,
Seminam; et flores, et succos incoquit atros,
Adjiciet extre mo lapides Oriente petitos,
Et quas Oceani refiium mare lavit arenas:
Addidit exceptas luna de nocte pruinas,
Et Strigis infames ipsis cum carnibus alas,
Inq; virum soliti vultus mutare ferinos
Ambigui prospecta lupi, nec defuit illi
Squamea Cinyphei tenuis membrana Chelidri,
Vivaciis; jecur cervi; quibus insuper addit
Ora caputq; novem comicis secula passce.

His et milie aliis, postquam sine nomine rebus
Propositum instruct mortali barbaro munus
Arenti ramo jampridem mitis olivce
Omnia confudit, summisq; immiscuit ima.

Ecce vetus calido versatus stipes aheno
Fit viridis primo, nee longo tempore frondes,
At quacunq; cavoh spumas ejecit aheno
Ignis, et in terram gutce ceucidere calentes,
Vernat humus, floresq; et mollia pabula surgunt.

Quce simulac vidit, stricto Medea recludit
Ense Senis jugulum, veterem extare cruorem
Passa replet succis, quos postquam combibit Æson,
Aut ore acceptas, aut vulnere, barba cecem;
Canicie posita, nigrum rapuere colorem.
Pulsa fugit macies: abeunt pallorq; sitiuseque:
Adjectoq; cave supplentur corpore rugce;
Membrraq; luxuriant. Æson miratur, et olim
Ante quater denos hunc se reminiscitur annos,
Dissimilemq; animum subiit, aetate relieta.

[262-293.]

Sect. 44.
Pag. 62.

Extol the Suicide of Cato.] As doth Seneca in several places; but Lactantius saith, he cast away his life, to get the reputation of a Platonic Philosopher, and not for fear of Caesar; and 'tis very probable, he was in no great fear of death, when he slept so securely the night before his death, as the story reports of him.

Emori nolo, sed me esse mortuum, nihil curo. Were I of Caesar’s Religion.] I doubt not, but here is a fault of the Press, and that instead of Caesar it should be Cicero. I meet not with any such saying imputed to Caesar, nor any thing like it, but that he preferr’d a sudden death (in which he had his option) to any other; but I meet with such a saying in Cicero quoted out of Epicharmus [Emori nolo, sed me esse mortuum nihil aestimo.]

Where Cicero sustaineth the part of the Epicure that there is no hurt in being dead, since there remaineth nothing after it. Cic. 1. Thusc. qu. non procul ab initio.
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Or whence Lucan learn'd to say, Communis mundo superest rogus, etc.] Why, Lucan was a Stoique, and 'twas an opinion among them almost generally, that the world should perish by fire; therefore without doubt from them he learned it. *Cæcum quoque cum omnibus quæ in caldo continentur, ita ut exipisset desinere, fontium dulci aqua marisve nutriti, in vim ignis abiturum.* Stoics constans opinio est, quod consumpto humore mundus hic omnis ignescat. *Minutius in Octav.* But Minutius should have excepted Boetius, Possidoniæus, Diogenes Babylonius, and Zeno Sidoniæus, who were Stoiques, and yet did not think the world should be destroyed by fire, nor yet by any other means.

*How shall we interpret Elias 6000 years, etc.?* Lactant. is very positive that the world should last but 6000 years; but his reason for it is somewhat strange; thus it is, *Quoniam sex diebus cuncta Dei opera perfecta sunt, per secula sex, i.e. annorum sex milia manere in hoc statu mundum necesse est.* *De Divino premio,* cap. 14.

*Ipsa sui pretium virtus sibi, is but a cold principle.* It is a Stoical principle. *Queris enim aliquid supra summum, interroga quid petam extra virtutem ipsam. Nihil enim habet melius. Pretium sui est.* Senec. de vit. beat. c. 19.

*That honest artificæ of Seneca.* What that article was, is to be seen in Senec. l. 1. ep. 11. *Aliquis vir bonus nobis eligendus est, et semper ante oculos habendus, ut sic tanquam illo spectante vivamus, et omnia tanquam illo videntе faciamus. Et paulo post; eligе itaq; Catonem; si hic videtur tibi nimis rigidus, eligе remissioris animi virum Lægium, etc.* which though, as the Author saith, it be an honest Artifice, yet cannot I but commend the party, and prefer the direction of him (whoever he were) who in the Margin of my Seneca, over against those words, wrote these: *Quin Deo potius qui semper omnibus omnia agentibus non tanquam sed reipsa adest, et videt; ac etiam ut Testis, vindex et punitor est male agentis.*

I have tried, if I could reach that great Resolution of his (that is of Seneca) to be honest without a thought of Heaven or Hell. *Seneca* brags he could do this, in these words: *Si scirem deos peccata ignoscinturos, et homines ignoranturos, adhuc propter vilitatem peccati peccare erubescerem. Credat Judæus Appella: non ego.*—

And Atheists have been the onely Philosophers.] That is, if nothing remain after this life. *St. Aug.* was of this opinion. *Disputabam— Epicurum accepturum fuisset palmam in animo meo, nisi ego credidisset post mortem restare animæ vitam, etc.* Aug. l. 6. conf. cap. 16.

*God by a powerful voice shall command them back into their proper shapes.* So Minutius. *Ceterum quis tam stultus est aut brutus, ut audeat repugnare hominem à Deo ut primum potuit fingi, ita posse denuo reformari, nihil esse post obitum, et ante ortum*
PART I.

nihil fuisset; sicut de nihilo nasci licuit, ita de nihilo licere reparari. Porro difficilium est id quod sit incipere, quod quam id quod fuerit iterare. Tu perire Deo credis, si quid nostris oculis hebetibus subtrahitur. Corpus omne sive arescit in pulverem sive in humorem solvitur, vel in cinerem comprimitur vel in nigredo tenuatur, subductur nobis, sed Deo elementorum custodi inseruntur. In Octav. Vide Grot. de veritate Relig. Christian. ubi (lib. 2.) solvit objectionem, quod dissoluta corpora restitutae nequeant.

Or conceive a flame that can either prey upon, or purifie the substance of a soul.] Upon this ground Psellus lib. 1. de Energia Daemonum, c. 7. holds, That Angels have bodies, (though he grants them to be as pure, or more pure than Air is) otherwise he could not apprehend how they should be tormented in Hell; and it may be upon this ground it was, that the Author fell into the error of the Arabians, mentioned by him, Sect. 7.

There are as many Hells as Anaxagoras conceived worlds.] I assure my self that this is false printed, and that instead of Anaxagoras it should be Anaxarchus; for Anaxagoras is reckoned amongst those Philosophers that maintain'd a Unity of the world, but Anaxarchus (according to the opinion of Epicurus) held there were infinite Worlds. That is he that calls'd Alexander to weep by telling him that there were infinite worlds, whereby Alexander it seems was brought out of opinion of his Geography, who before that time thought there remained nothing, or not much beyond his Conquests.

It is hard to place those souls in Hell.] Lactantius is alike charitably disposed towards those. Non sum equidem tam iniquus ut eos putem divinare debuisse, ut veritatem per seipsos invenirem (quod fieri ego non posse confiteor) sed hoc ab eis exigio, quod ratione ipsa prestante potuerunt. Lactant. de orig. error. c. 3. which is the very same with Sir K. Digbie's expression in his Observations on this place. I make no doubt at all (saith he) but if any follow'd in the whole tenour of their lives, the dictaments of right reason, but that their journey was secure to Heaven.

Aristotle transgress'd the rule of his own Ethicks.] And so they did all, as Lactantius hath observed at large. Aristot. is said to have been guilty of great vanity in his Clothes, of Incontinency, of Unfaithfulness to his Master Alexander, etc. But 'tis no wonder in him, if our great Seneca be also guilty, whom truly notwithstanding St. Jerome would have him inserted in the Catalogue of Saints, yet I think he as little deserv'd it, as many of the Heathens who did not say so well as he did, for I do not think any of them liv'd worse: to trace him a little. In the time of the Emperour Claudius we find he was banish'd for suspicion of incontinency with Julia the daughter of Germanicus. If it be said that this proceeded meerly from the spight of
Messalina, (and that Lipsius did not complement with him in PART I. that kind Apostrophe, Non expetit in te hac culpa, O Romani nominis et Sapientiae magne, Sol. Not. in Tacit.) why then did she not cause him to be put to death, as well as she did the other, who was her Husbands Niece? This for certain, whatever his life were, he had paginam lascivam, as may appear by what he hath written, de Speculorum usu, l. 1. Nat. Qu. cap. 16. Which (admitting it may in a Poet, yet) how it should be excus’d in a Philosopher I know not. To look upon him in his exile, we find that then he wrote his Epistle De Consolat. to Polybius, Claudius his creature (as honest a man as Pallas or Narcissus) and therein he extols him and the Emperour to the Skies; in which he did grosly prevaricate, and lost much of his reputation, by seeking a discharge of his exile by so sordid a means. Upon Claudius his marriage with Agrippina, he was recall’d from Banishment by her means, and made Praetor, then he forgets the Emperour, having no need of him, labours all he can to depress him and the hopeful Britannicus, and procured his Pupil Nero to be adopted and design’d Successor, and the Emperours own Son to be disinherited; and against the Emperour whom he so much praised when he had need of him, after his death he writes a scurrilous Libel. In Nero’s Court, how ungratefully doth he behave himself towards Agrippina! who although she were a wicked woman, yet she deserv’d well of him, and of her Son too, who yet never was at rest till he had taken away her life, and upon suspicion cast in against her by this man. Afterwards not to mention that he made great haste to grow rich, which should not be the business of a Philosopher, towards Nero himself, how well did it become his Philosophy to play the Traitor against him, and to become a complice in the conspiracy of Piso? And then as good a Tragedian as he was, me thinks he doth in extremo actu deficere, when he must needs perswade Paulina, that excellent Lady his wife, to die with him: what should move him to desire it? it could in his opinion be no advantage to her, for he believ’d nothing of the immortality of the soul; I am not satisfied with the reason of Tacitus, Ne sibi unice dilectam ad injurias relinquuere, because he discredits it himself, in almost the next words, where he saith, Nero bore her no ill will at all, (and would not suffer her to die) it must surely be then, because he thought he had not liv’d long enough (being not above 114 years old, so much he was) and had not the fortitude to die, unless he might receive some confirmation in it by her example. Now let any man judge what a precious Legacy it is that he bequeaths by his nuncupative will to his friends in Tacitus. Conversus ad amicos (saith he) quando meritis eorum referre gratiam prohiberetur, quod unum jam tamen et pulcherrimum habeat, imaginem vitae suae relinquere testatur. It cannot be denied of him, that he hath said very
PART I. well; but yet it must as well be affirmed, that his Practice hath run counter to his Theory, to use the Author’s phrase.

The Scepticks that affirmed they knew nothing.] The ancient Philosophers are divided into three sorts, Dogmatici, Academici, Sceptici; the first were those that delivered their opinions positively; the second left a liberty of disputing pro et contra; the third declared that there was no knowledge of any thing, no not of this very proposition, that there is no knowledge, according to that,

—Nihil sciri sequis putat, id quoq; nescit
An sciri possit, quod se nil scire fatetur.

The Duke of Venice that weds himself to the Sea by a Ring of Gold, etc.] The Duke and Senate yearly on Ascension-day use to go in their best attire to the Haven of Lido, and there by throwing a Ring into the water, do take the Sea as their spouse. Vid. Hist. Ital. by Will Thomas Cambrobrit. Busbequis reports that there is a custom amongst the Turks, which they took from the Greek Priests, not much unlike unto this. Cum Graecorum sacerdotibus mos sit certo veris tempore aquas consecrando mare clausum veluti reservare, ante quod tempus non facile se committunt fluctibus; ab ea Ceremonia nec Turcae absunt. Busb. Ep. 3. legat. Tursic.

But the Philosopher that threw his money into the Sea, to avoid avarice, etc.] This was Apollonius Thyaneus, who threw a great quantity of Gold into the Sea with these words, Pessundol divitas, ne pessundarem ab illis. Polycrates the Tyrant of Samos cast the best Jewel he had into the Sea, that thereby he might learn to compose himself against the vicissitude of Fortune.

There go so many circumstances to piece up one good action.] To make an action to be good, all the causes that concur must be good; but one bad amongst many good ones, is enough to make it vitious, according to the rule, Bonum ex causa integra, malum ex partiali.

The vulgarity of those judgements that wrap the Church of God in Strabo’s Cloak, and restrain it unto Europe.] ’Tis Strabonis tunica in the translation, but Chlamydi would do better, which is the proper expression of the word that Strabo useth: it is not Europe, but the known part of the world that Strabo resembles to a Cloak, and that is it the Author here alludeth to; but we have no reason to think that the resemblance of Strabo is very proper. Vid. Sir Hen. Savil. in not. ad Tac. in vita Agricola.

Those who upon a rigid Application of the Law, sentence Solomon into damnation, etc.] St. Aug. upon Psal. 126. and in many other places, holds that Solomon is damned. Of the same opinion is Lyra, in 2 Reg. c. 7. and Bellarm. 1 Tom. lib. 1. Controv. c. 5.
THE SECOND PART

[ WONDER not at the French for their Frogs, Snails and Toad-stools.] Toad-stools are not peculiar to the French; they were a great delicacy among the Romans, as appears every where in Martial. It was conceived the Emperor Claudius received his death by Poyson, which he took in Mushroom. Suet. and Tac.

How among so many millions of faces, there should be none alike.] Sect. 2. Pag. 87.

It is reported there have been some so much alike, that they could not be distinguished; as King Antiochus, and one Antemon, a Plebeian of Syria, were so much alike, that Laodice, the Kings widow, by pretending this man was the King, dissembled the death of the King so long, till according to her own mind, a Successor was chosen. Chn. Pompeius, and one Vibus the Orator; C. Plancus, and Rubrius the Stage-player; Cassius Severus the Orator, and one Mirmello; M. Messala Censorius, and one Menogenes, were so much alike, that unless it were by their habit, they could not be distinguished: but this you must take upon the Faith of Pliny (lib. 7. c. 12.) and Solinus, (cap. 6.) who as this Author tells elsewhere, are Authors not very infallible.

What a βαροχωμομαξια and hot skirmish is betwixt S. and T. Sect. 3. in Lucian.] In his Dialog. judicium vocalium, where there is a large Oration made to the Vowels, being Judges, by Sigma against Tau, complaining that Tau has bereaved him of many words, which should begin with Sigma.

Their Tongues are sharper than Actius his razor.] Actius Navius was chief Augur, who (as the story saith) admonishing Turqu. Priscus that he should not undertake any action of moment, without first consulting the Augur, the King (shewing that he had little faith in his skill) demanded of him, whether by the rules of his skill, what he had conceived in his mind might be done: to whom when Actius had answered it might be done, he bid him take a Whetstone which he had in his hand, and cut it in two with a Razor; which accordingly the Augur did. Livy. And therefore we must conceive it was very sharp. Here the Adage was cross'd, ἐφὸς εἰς ἀκόμη, i.e. novacula in cotem. Vid. Erasm. Chiliad.

It is not meer Zeal to Learning, or devotion to the Muses, that wiser Princes Patronize the Arts, etc. but a desire to have their names eterniz'd by the memory of their Writings.] There is a great Scholar, who took the boldness to tell a Prince so much. Est enim bonorum principum cum viris eruditis tacita quedam naturalisque Societas, ut alteri ab alteris illustrentur, ac dum sibi mutuo suffragantur, et gloria principibus, et doctis authoritas

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Sect. 3. Pag. 90.

ep. 1. And to this Opinion astipulates a Country man of our

own, whose words are these: Ignotus esset Lucilius, nisi eum

Epistole Senecæ illustraret. Laudibus Caesareis plus Virgilius et

Varus Lucanusq; adjecerunt, quam immensum illud erarium quo

urbe et orbem spoliavit. Nemo prudentiam Ithaci aut Pelidæ

vires agnosceret, nisi eam Homerus divino publicasset ingenio: unde

nihil mihi videtur consultus viro ad gloriam properanti fidelium


Princes are as much beholding to the Poets Pens as their own

Swords, Horace tells Censorinus with great confidence. Od. 8.

l. 4. Non incisa notis, etc.

Sect. 4. Pag. 90.

St. Paul that calls the Cretians Lyars, doth it but indirectly, and

upon quotation of one of their own Poets.] That is, Epimenides; the

place is Tit. 1. v. 12. where Paul useth this verse, taken out of

Epimenides.

Κρήτες ἂν ἰσόσταται, κακὰ θηρία, γαστέρες ἀργαλ.

It is as bloody a thought in one way, as Nero's was in another.

For by a word we wound a thousand.] I suppose he alludes to

that passage in Sueton, in the life of Nero, where he relates that

certain person upon a time, spoke in his hearing these words,

'Εμοῦ θανόντος γαϊα μιχθήτω πυρί.

i.e. When I am dead let Earth be mingled with Fire. Where-

upon the Emperour uttered these words, 'Εμοῦ ζῶντος, i.e. Yea

whilst I live: there by one word, he express'd a cruel thought;

which I think is the thing he meant; this is more cruel than

the wish of Caligula, that the people of Rome had but one Neck,

that he might destroy them all at a blow.

Sect. 6. Pag. 95.

I cannot believe the story of the Italian, etc.] It is reported

that a certain Italian having met with one that had highly pro-

voked him, put a Ponyard to his breast, and unless he would

blaspheme God, told him he would kill him, which the other

doing to save his life, the Italian presently kill'd him, to the

intent he might be damned, having no time of Repentance.

I have no sins that want a Name.] The Author in cap. ult. lib.

ult. Pseudodox. speaking of the Act of carnality exercised by

the Egyptian Pollinctors with the dead carcasses, saith we want

a name for this, wherein neither Petronius nor Martial can

relieve us; therefore I conceive the Author here means a

venereal sin.

This was the Temper of that Leacher that carnal'd with a Statuæa.]

The Latine Annotator upon this hath these words: Rome

refertur de Hispano quodam. But certainly the Author means

the Statue of Venus Gnidia made by Praxiteles, of which a cer-

tain young man became so enamoured, that Pliny relates, Ferunt
amore captum cum delituisset noctu simulachro cohæsisse, ejusq; PART II.
cupiditatis esse indicem maculum. Lucian also has the story in his Dialog. [Amores.]
And the constitution of Nero in his Spintrian recreations.] The Author doth not mean the last Nero, but Tiberius the Emperour, whose name was Nero too; of whom Sueton. Secessu vero Capreensi etiam sellarium excogitavit sedem arcinarum libidinum, in quam undique conquisti puellarum et exolctorum greges monstrosis; con-cubitus repertores, quos spintrias appellabat, triplici serie connexion invicem incestarent se coram ipso, ut adspectu deficientes libidines excitaret. Suet. in Tib. 43.
I have seen a Grammarian toure and plume himself over a single line in Horace, and shew more pride, etc.] Movent mihi stomachum Grammatistae quidam, qui cum duas tenuerint vocabularum origines ita se ostentant, ita venditant, ita circumferunt jactabund, ut præ ipsis pro nihilo habendos Philosophos arbitrentur. Picus Mirand. in Ep. ad Hermol. Barb. qua extat lib. nono Epist. Politian.
Garsio quisq; duas postquam scit jungere partes, Sic stat, sic loquitur, velut omnes noveril artes.

I cannot think that Homer pin'd away upon the Riddle of the Pag. 99 Fishermen.] The History out of Plutarch is thus: Sailing from Thebes to the Island Ion, being landed and set down upon the shore, there happen'd certain Fishermen to pass by him, and he asking them what they had taken, they made him this Enigmatical answer, That what they had taken, they had left behind them; and what they had not taken, they had with them: meaning, that because they could take no Fish, they went to loose themselves; and that all which they had taken, they had killed, and left behind them, and all which they had not taken, they had with them in their clothes: and that Homer being struck with a deep sadness because he could not interpret this, pin'd away, and at last dyed. Pliny alludes to this Riddle, in his Ep. to his Friend Fuscus, where giving an account of spending his time in the Country, he tells him, Venor aliquando, sed non sine pugillaribus, ut quamvis nihil ceperim, non nihil referam. Plin. Ep. lib. 9, Ep. 36.
Or that Aristot.—did ever drown himself upon the flux or reflux of Euripus.] Laertius reports that Aristotle dyed of a disease at 63 years of age. For this and the last, see the Author in Pseudodox.
Aristotle doth but instruct us as Plato did him, to confute himself.] In the matter of Idea's, Eternity of the world, etc.
I could be content that we might procreate like trees without con-junction, or that there were any way to perpetuate the world without this trivial and vulgar way of Coition: It is the foolishest act a wise man commits in all his life.] There was a Physitian long before
PART II. the Author, that was of the same opinion, Hippocrates; for which vide A. Gel. l. 19. Noct. Attic. c. 2. And so of late time was Paracelsus, who did undertake to prescribe a way for the generation of a man without coition. Vide Campanel. de sensu rerum, in Append. ad cap. 19. l. 4. Monsieur Montaignes words on this subject, are worth the reading; these they are: Je trouve apres tout, que l'amour n'est autre chose que la fame de cette jouystance, et considerant maintes fois la ridicule titillation de ce plaisir par ou il nous tient, les absurdes movements escerevez et estourdis dequoy il agite Zenon et Cratippus, ceste rage indiscrète, ce visage inflamme de fureur et de cruauté au plus doux effect de l'amour, et puis cette morgue grave severe et extatique en une action si folle, et que la supreme volupte aye du trainsy et du plaintiff commer la douler, je croye qu'on se joue de nous, et que c'est par industrie que nature nous a laisse la plus trouble de nos actions les plus communes pour nous esgaller par la et apparier les fois et les sages, et nous et les bestes. Le plus contemplatif et prudent homme quand je l'imagin en cette assiety je le tien pour un affronteur, de faire le prudent et le contemplatif: ce sont les pieds du paon qui abbatent son orgueil. Nous mangeons bien et beuvons comme les bestes, mais ce ne sont pas actions, qui empeschent les operations de nostre ame, en celles-la nous gardons nostre advantage sur elles: cettcey met tout autre pensee sous le joug, abrutist et abesiit par son imperieuse authorite toute la Theology et Philosophy, qui est en Platon et si il ne s'en plaint pas. Par tout ailleurs vous pouvez garder quelque decence; toutes autres operations souffrent des Regles d'honestete: cettcey ne se peut seulement imaginier que vitieuse ou ridicule; trouvez y pour voir un proceder sage et discret. Alexander disoit qu'il se cognossoit principalement mortel par cette action et par le dormir: le sommeil suffoqie et supprime les facultez de nostre ame, la besoigne les absorbe et dissipe de mesme. Certes c'est une marque non seulement de nostre corruption origineelle, mais aussi de nostre vanite et disformite. D'un coste nature nous y pousse ayant attaché a ce desiere la plus noble, utile et plaisante de toutes ses operations, et la nous laisse d'autre part accuser et fuyr comme insolent et dishoneste, en rougir et recommander l'abstinence, etc. Montaign liv. 3. chapit. 5.

And may be inverted on the worst.] That is, that there are none so abandoned to vice, but they have some sprinklings of vertue. There are scarce any so vitious, but commend virtue in those that are endued with it, and do some things laudable themselves, as Plin. saith in Panegyric. Machiavel upon Irey, lib. 1. cap. 27. sets down the ensuing relation as a notable confirmation of this truth. Julius Pontifex, ejus nominis secundus, anno salutis 1505. Bononium exercitus duxit, ut Bentivolorum familiam, qua ejus urbis imperium centum jam annos tenuerat, loco moveret. Edemque in expeditione etiam Johannem Fugolum, Bagloneum tyrannum Perusinum sua sede expellere decreverat, ut
cæteros item, qui urbes Ecclesiæ per vim tenerent. Eijus rei causa

cum ad Perusinam urbem accessisset, et notum jam omnibus esset quid in animo haberet: tamen impatiens moræ, noluit exercitus expectare, sed inermis quasi urbem ingressus est, in quam Johannes Pagolus defendendī sui causa, non exiguas copias contraxerat. Is autem eodem furore, quo res suas administrare solebat, una cum milité, cui custodiam sui corporis demandarat, sese in pontificis potestatem dedidit; a quo abductus est relictusque alius, qui Ecclesiæ nominem urbem gubernaret. Hac ipsa in re magnopere admirati sunt viri sapientes, qui Pontificem comitabantur, cum Pontificis ipsius temperitatem, cum abiectum vilem; Johannes Pagoli animum: nec causam intelligebant, ob quam permutus idem Pagolus, hostem suum inermem (quod illi cum perpetua nominis sui memoria fecere licebat) non subitò oppresserit, et tam pretiosa spolia diripuerit; cum Pontifex urbem ingressus fuisset, Cardinalibus tantum suis stipatus, qui pretiosissimas quasq; suarum rerum secum habebant. Neque enim credebatur Pagolus a tanto fucinore vel sua bonitate, vel animi conscientia abstinuisset: quod in hominem sceleratum, qui et propria sorore utebatur, et consobrinos nepotesque dominandi causa e medio sustulerat hujusmodi più affectus cadere non viderentur. Cum igitur hac de re variae essent sapientium virorum sententia; concluserunt tandem id ei accidisse, quod ita comparatum sit, ut homines neque plane pravi esse queant, neque perfecte boni. Pravi perfecte esse nequeant, propterquâ quod,ubi tale quod-dam scelus est, in quo aliquid magnifici ac generosi insit, id putare non audeant. Nam cum Pagolus neg; incestum prius horruisset, neque patricidio abstinuisset: tamen cum obleta esset occasio, pravi quidem sed memorabilis, atque aeterna memoria fucinoris patrandi, id attentare non ausus fuit, cum id sine infamia prestare licuisset, quod rei magnitudo omnia priora sceleru obtegere potuisset, et a periculo conservare. Quibus accedit, quod illi gratulati fuissent etiam quam plurimi, si primus ausus esset Pontificibus monstrare rationem dominandi; totiusque humanae vitae usum ab illis nimis parvi pendit.

Poysons contain within themselves their own Antidote.] The Poyson of a Scorpion is not Poyson to it self, nor the Poyson of a Toad is not Poyson to it self; so that the sucking out of Poyson from persons infected by Psylls, (who are continually nourished with venomous aliment) without any prejudice to themselves, is the less to be wondred at.

The man without a Navil yet lives in me.] The Latine Annotator hath explicated this by Homo non perfectus, by which it seems he did not comprehend the Author's meaning; for the Author means Adam, and by a Metonymie original sin; for the Navil being onely of use to attract the aliment in utero materno, and Adam having no mother, he had no use of a Navil, and therefore it is not to be conceived he had any; and upon that ground the Author calls him the man without a Navil.
PART II. Our grosser memories have then so little hold of our abstracted understandings, that they forget the story, and can onely relate to our awaked senses a confused and broken tale of that that hath pass'd.] For the most part it is so. In regard of the Author's expression of forgetting the story, though otherwise it be not very pertinent to this place, I shall set down a relation given by an English Gentleman, of two dreams that he had, wherein he did not forget the story, but (what is more strange) found his dreams verified. This it is.

Whilst I lived at Prague, and one night had sit up very late drinking at a feast, early in the morning the Sun beams glancing on my face, as I lay in my bed, I dreamed that a shadow passing by told me that my Father was dead; at which awaking all in a sweat, and affected with this dream, I rose and wrote the day and hour, and all circumstances thereof in a Paper-book, which book with many other things I put into a Barrel, and sent it from Prague to Stode, thence to be conveyed into England. And now being at Nurenburch, a Merchant of a noble Family well acquainted with me and my friends, arrived there, who told me my Father dyed some two months ago. I list not to write any lyes, but that which I write, is as true as strange. When I returned into England some four years after, I would not open the Barrel I sent from Prague, nor look into the Paper-book in which I had written this dream, till I had called my Sisters and some friends to be witnesses, where my self and they were astonished to see my written dream answer the very day of my Father's death.

I may lawfully swear that which my Kinsman hath heard witnessed by my brother Henry whilst he lived, that in my youth at Cambridge, I had the like dream of my Mother's death, where my brother Henry living with me, early in the morning I dreamed that my Mother passed by with a sad countenance, and told me that she could not come to my Commencement: I being within five months to proceed Master of Arts, and she having promised at that time to come to Cambridge. And when I related this dream to my brother, both of us awaking together in a sweat, he protested to me that he had dreamed the very same; and when we had not the least knowledge of our Mother's sickness, neither in our youthful affections were any whit affected with the strangeness of this dream, yet the next Carrier brought us word of our Mother's death. Mr. Fiennes Morison in his Itinerary. I am not over-credulous of such relations, but methinks the circumstance of publishing it at such a time, when there were those living that might have disprovd it, if it had been false, is a great argument of the truth of it.

I wonder the fancy of Lucan and Seneca did not discover it.] For they had both power from Nero to chuse their deaths.
To conceive our selves Urinals is not so ridiculous.] Reperti sunt PART II.

Galeno et Avicenna testibus qui se vasa fictilia crederent, et idcirco Sect. 13.
hominum attactum ne confringerentur solicitae fugerent. Pontan. Pag. 108.
in Attic. bellar. (Hist. 22.) Which proceeds from extremity of
Melancholy.

Aristot. is too severe, that will not allow us to be truly liberal Pag. 109.
without wealth.] Aristot. l. 1. Ethic. c. 8.

Thy will be done though in mine own undoing.] This should be Sect. 15.
the wish of every man, and is of the most wise and knowing, Pag. 112.

Le Christien plus humble et plus sage et mieux reconnoissant que c'est
que de luy se rapporte a son createur de choisir et ordonner ce qu' il
luy faut. Il ne le supplie dautre chose que sa volunte soit faite.
Montaign.
A Letter sent upon the information of Animadversions to come forth, upon the imperfect and surreptitious copy of Religio Medici, whilst this true one was going to Press.

HONoured Sir, Give your Servant, who hath ever honour'd you, leave to take notice of a Book at present in the Press, intituled (as I am informed) Animadversions upon a Treatise lately printed under the name of Religio Medici; hereof, I am advertised, you have descended to be the Author. Worthy Sir, permit your Servant to affirm there is contain'd therein nothing that can deserve the Reason of your Contradictions, much less the Candor of your Animadversions: and to certifie the truth thereof, That Book (whereof I do acknowledge myself the Author) was penn'd many years past, and (what cannot escape your apprehension) with no intention for the Press, or the least desire to oblige the Faith of any man to its assertions. But what hath more especially emboldened my Pen unto you at present, is, That the same Piece, contrived in my private study, and as an Exercise unto my self, rather than Exercitation for any other, having past from my hand under a broken and imperfect Copy, by frequent transcription it still run forward into corruption, and
after the addition of some things, omission of others, & transposition of many, without my assent or privacy, the liberty of these times committed it unto the Press; whence it issued so disguised, the Author without distinction could not acknowledge it. Having thus miscarried, within a few weeks I shall, God willing, deliver unto the Press the true and intended Original (whereof in the mean time your worthy Self may command a view); otherwise when ever that Copy shall be extant, it will most clearly appear how far the Text hath been mistaken, and all Observations, Glosses, or Exercitations thereon, will in a great part impugn the Printer or Transcriber, rather than the Author. If after that, you shall esteem it worth your vacant hours to discourse thereon, you shall but take that liberty which I assume my self, that is, freely to abound in your sense, as I have done in my own. However you shall determine, you shall sufficiently honour me in the Vouchsafe of your Refute, and I oblige the whole World in the occasion of your Pen.

*Your Servant.*

T. B.

CERTAINLY that man were greedy of Life, who should desire to live when all the world were at an end; and he must needs be very impatient, who would repine at death in the society of all things that suffer under it. Had not almost every man suffered by the Press or were not the tyranny thereof become universal, I had not wanted reason for complaint: but in times wherein I have lived to behold the highest perversion of that excellent invention, the name of his Majesty defamed, the Honour of Parliament depraved, the Writings of both depravedly, anticipatively, counterfeitly imprinted; complaints may seem ridiculous in private persons; and men of my condition may be as incapable of affronts, as hopeless of their reparations. And truely had not the duty I owe unto the importunity of friends, and the allegiance I must ever acknowledge unto truth, prevailed with me; the inactivity of my disposition might have made these sufferings continual, and time that brings other things to light, should have satisfied me in the remedy of its oblivion. But because things evidently false are not onely printed, but many things of truth most falsely set forth, in this latter I could not but think my self engaged. For though we have no power to redress the former, yet in the other, reparation being within our selves, I have at present represented unto the
world a full and intended Copy of that Piece, which was most imperfectly and surreptitiously published before.

This, I confess, about seven years past, with some others of affinity thereto, for my private exercise and satisfaction, I had at leisurable hours composed; which being communicated unto one, it became common unto many, and was by Transcription successively corrupted, untill it arrived in a most depraved Copy at the Press. He that shall peruse that Work, and shall take notice of sundry particularities and personal expressions therein, will easily discern the intention was not publick: and being a private Exercise directed to my self, what is delivered therein, was rather a memorial unto me, than an Example or Rule unto any other: and therefore if there be any singularity therein correspondent unto the private conceptions of any man, it doth not advantage them: or if dissentaneous thereunto, it no way overthrows them. It was penned in such a place, and with such disadvantage, that (I protest) from the first setting of pen unto paper, I had not the assistance of any good Book, whereby to promote my invention, or relieve my memory; and therefore there might be many real lapses therein, which others might take notice of, and more than I suspected my self. It was set down many years past, and was the sense of my conception at that time, not an immutable Law unto my advancing judgement at all times; and therefore there might be many things therein plausible unto my passed apprehension, which are not agreeable unto my present self. There are many things delivered Rhetorically, many expressions therein meerly Tropical, and as they best illustrate my intention; and therefore also there are many things to be taken in a soft and flexible sense, and not to be called unto the rigid test
of Reason. Lastly, all that is contained therein is in submission unto maturer discernments; and, as I have declared, shall no further father them than the best and learned judgments shall authorize them: under favour of which considerations I have made its secrecy publick, and committed the truth thereof to every Ingenious Reader.

THO. BROWNE.
RELIGIO MEDICI

For my Religion, though there be several sect. Circumstances that might persuade the World I have none at all, as the general scandal of my Profession, the natural course of my Studies, the indifferency of my Behaviour and Discourse in matters of Religion, neither violently Defending one, nor with that common ardour and contention Opposing another; yet, in despi[t]h hereof, I dare, without usurpation, assume the honourable Stile of a Christian. Not that I meerly owe this Title to the Font, my Education, or Clime wherein I was born, as being bred up either to confirm those Principles my parents instilled into my Understanding, or by a general consent proceed in the Religion of my Country: But having in my riper years and confirmed Judgment, seen and examined all, I find my self obliged by the Principles of Grace, and the Law of mine own Reason, to embrace no other name but this: Neither doth herein my zeal so far make me forget the general Charity I owe unto Humanity, as rather to hate than pity Turks, Infidels, and (what is worse) Jews; rather contenting my self to enjoy that happy Stile, than maligning those who refuse so glorious a Title.
BUT because the Name of a Christian is become too general to express our Faith, there being a Geography of Religion as well as Lands, and every Clime distinguished not only by their Laws and Limits, but circumscribed by their Doctrines and Rules of Faith; to be particular, I am of that Reformed new-cast Religion, wherein I dislike nothing but the Name; of the same belief our Saviour taught, the Apostles disseminated, the Fathers authorized, and the Martyrs confirmed, but by the sinister ends of Princes, the ambition and avarice of Prelates, and the fatal corruption of times, so decayed, impaired, and fallen from its native Beauty, that it required the careful and charitable hands of these times to restore it to its primitive Integrity. Now the accidental occasion whereupon, the slender means whereby the low and abject condition of the Person by whom so good a work was set on foot, which in our Adversaries beget contempt and scorn, fills me with wonder, and is the very same Objection the insolent Pagans first cast at Christ and his Disciples.

Yet have I not so shaken hands with those desperate Resolutions, who had rather venture at large their decayed bottom, than bring her in to be new trimm'd in the Dock; who had rather promiscuously retain all, than abridge any, and obstinately be what they are, than what they have been, as to stand in Diameter and Swords point with them: We have reformed from them, not against them; for omitting those Improperations and Terms of Scurrility betwixt us, which only difference our Affections, and not our Cause, there is between us one common Name and Appellation, one Faith and
necessary body of Principles common to us both; and therefore I am not scrupulous to converse and live with them, to enter their Churches in defect of ours, and either pray with them, or for them. I could never perceive any rational Consequence from those many Texts which prohibit the Children of Israel to pollute themselves with the Temples of the Heathens; we being all Christians, and not divided by such detested impieties as might prophan our Prayers, or the place wherein we make them; or that a resolved Conscience may not adore her Creator any where, especially in places devoted to his Service; where, if their Devotions offend him, mine may please him; if theirs prophan it, mine may hallow it. Holy-water and Crucifix (dangerous to the common people) deceive not my judgment, nor abuse my devotion at all: I am, I confess, naturally inclined to that which misguided Zeal terms Superstition: my common conversation I do acknowledge austere, my behaviour full of rigour, sometimes not without morosity; yet at my Devotion I love to use the civility of my knee, my hat, and hand, with all those outward and sensible motions which may express or promote my invisible Devotion. I should violate my own arm rather than a Church; nor willingly deface the name of Saint or Martyr. At the sight of a Cross or Crucifix I can dispense with my hat, but scarce with the thought or memory of my Saviour: I cannot laugh at, but rather pity, the fruitless journeys of Pilgrims, or contemn the miserable condition of Fryars; for though misplaced in Circumstances there is something in it of Devotion. I could never hear the Ave-Mary Bell without an elevation, or think it a sufficient warrant, because they erred in one circumstance, for me to err in all, that is, in

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1 A Church Bell that tolls every day at six and twelve of the clock; at the hearing whereof, every one in what place soever, either of House or Street, be-takes himself, to his prayer, which is commonly directed to the Virgin.
silence and dumb contempt; whilst therefore they directed their Devotions to Her, I offered mine to God, and rectifie the Errors of their Prayers by rightly ordering mine own: At a solemn Procession I have wept abundantly, while my consorts blind with opposition and prejudice, have fallen into an excess of scorn and laughter: There are questionless both in Greek, Roman, and African Churches, Solemnities and Ceremonies, whereof the wiser Zeals do make a Christian use, and stand condemned by us, not as evil in themselves, but as allurements and baits of superstition to those vulgar heads that look asquint on the face of Truth, and those unstable Judgments that cannot resist in the narrow point and centre of Virtue without a reel or stagger to the Circumference.

SECT. 4 As there were many Reformers, so likewise many Reformations; every Country proceeding in a particular way and method, according as their national Interest, together with their Constitution and Clime, inclined them; some angrily, and with extremity; others calmly, and with mediocrity; not rending, but easily dividing the community, and leaving an honest possibility of a reconciliation; which though peaceable Spirits do desire, and may conceive that revolution of time and the mercies of God may effect, yet that judgment that shall continue the present antipathies between the two extrems, their contrarieties in condition, affection, and opinion, may with the same hopes expect an union in the Poles of Heaven.
BUT to difference my self nearer, and draw into a lesser Circle, There is no Church, whose every part so squares unto my Conscience; whose Articles, Constitutions, and Customs, seem so consonant unto reason, and as it were framed to my particular Devotion, as this whereof I hold my Belief, the Church of England, to whose Faith I am a sworn Subject; and therefore in a double Obligation subscribe unto her Articles, and endeavour to observe her Constitutions; whatsoever is beyond, as points indifferent, I observe according to the rules of my private reason, or the humour and fashion of my Devotion; neither believing this, because Luther affirmed it, or disproving that, because Calvin hath disavouched it.

I condemn not all things in the Council of Trent, nor approve all in the Synod of Dort. In brief, where the Scripture is silent, the Church is my Text: where that speaks, 'tis but my Comment: where there is a joyn't silence of both, I borrow not the rules of my Religion from Rome or Geneva, but the dictates of my own reason. It is an unjust scandal of our adversaries, and a gross errour in our selves, to compute the Nativity of our Religion from Henry the Eighth, who, though he rejected the Pope, refus'd not the faith of Rome, and effected no more than what his own Predecessors desired and assayed in Ages past, and was conceived the State of Venice would have attempted in our days. It is as uncharitable a point in us to fall upon those popular scurrilities and opprobrious scoffs of the Bishop of Rome, to whom as a temporal Prince, we owe the duty of good language: I confess there is cause of passion between us; by his sentence I stand excommunicated, Heretick is the best language he affords me; yet can no ear witness I ever returned him the
name of Antichrist, Man of Sin, or Whore of Babylon. It is the method of Charity to suffer without reaction: Those usual Satyrs and invectives of the Pulpit may perchance produce a good effect on the vulgar, whose ears are opener to Rhetorick than Logick; yet do they in no wise confirm the faith of wiser Believers, who know that a good cause needs not to be pardon’d by passion, but can sustain it self upon a temperate dispute.

SECT. I COULD never divide my self from any man upon the difference of an opinion, or be angry with his judgment for not agreeing with me in that from which perhaps within a few days I should dissent my self. I have no Genius to disputes in Religion, and have often thought it wisdom to decline them, especially upon a disadvantage, or when the cause of truth might suffer in the weakness of my patronage: Where we desire to be informed, ’tis good to contest with men above our selves; but to confirm and establish our opinions, ’tis best to argue with judgments below our own, that the frequent spoils and Victories over their reasons may settle in ourselves an esteem and confirmed Opinion of our own. Every man is not a proper Champion for Truth, nor fit to take up the Gauntlet in the cause of Verity: Many, from the ignorance of these Maximes, and an inconsiderate Zeal unto Truth, have too rashly charged the Troops of Error, and remain as Trophies unto the enemies of Truth: A man may be in as just possession of Truth as of a City, and yet be forced to surrender; ’tis therefore far better to enjoy her with peace, than to hazzard her on a battle: if therefore there rise any doubts in my way, I do forget them, or at least defer them till
my better settled judgement and more manly reason be able to resolve them; for I perceive every man's own reason is his best *Edipus*, and will upon a reasonable truce, find a way to loose those bonds wherewith the subtleties of error have enchained our more flexible and tender judgements. In Philosophy, where Truth seems double-fac'd, there is no man more Paradoxical than my self: but in Divinity I love to keep the Road; and, though not in an implicite, yet an humble faith, follow the great wheel of the Church, by which I move, not reserving any proper Poles or motion from the Epicycle of my own brain; by this means I leave no gap for Heresie, Schisms, or Errors, of which at present I hope I shall not injure Truth to say I have no taint or tincture: I must confess my greener studies have been polluted with two or three, not any begotten in the latter Centuries, but old and obsolete, such as could never have been revived, but by such extravagant and irregular heads as mine: for indeed Heresies perish not with their Authors, but, like the river Arethusa, though they lose their currents in one place, they rise up again in another: One General Council is not able to extirpate one single Heresie; it may be cancell'd for the present; but revolution of time, and the like aspects from Heaven, will restore it, when it will flourish till it be condemned again. For as though there were a *Metempsuchosis*, and the soul of one man passed into another; Opinions do find, after certain Revolutions, men and minds like those that first begat them. To see ourselves again, we need not look for Plato's year:¹ every man is not only himself; there hath been many Diogenes, and as many Timons, though but few of that name; men are liv'd over again, the world is now as it was in Ages past; there

¹ A revolution of certain thousand years, when all things should return unto their former estate, and he be teaching again in his School as when he delivered this Opinion.
was none then, but there hath been some one since that 
Parallels him, and is, as it were, his revived self.

NOW the first of mine was that of the 
Arabians, That the Souls of men per-
ished with their Bodies, but should yet 
be raised again at the last day: not that I did 
absolutely conceive a mortality of the Soul; but if 
that were, which Faith, not Philosophy hath yet 
throughly disproved, and that both entred the grave 
together, yet I held the same conceit thereof that we 
all do of the body, that it should rise again. Surely 
it is but the merits of our unworthy Natures, if we 
sleep in darkness until the last Alarm. A serious 
reflex upon my own unworthiness did make me back-
ward from challenging this prerogative of my Soul; 
so that I might enjoy my Saviour at the last, I could 
with patience be nothing almost unto Eternity. The 
second was that of Origen, That God would not per-
sist in his vengeance for ever, but after a definite time 
of his wrath, he would release the damned Souls from 
torture: which error I fell into upon a serious con-
templation of the great Attribute of God, his Mercy; 
and did a little cherish it in my self, because I found 
therein no malice, and a ready weight to sway me from 
the other extrem of despair, whereunto Melancholy 
and Contemplative Natures are too easily disposed. A 
third there is which I did never positively maintain or 
practise, but have often wished it had been consonant 
to Truth, and not offensive to my Religion, and that is 
the Prayer for the dead; whereunto I was inclin'd 
from some charitable inducements, whereby I could 
scarce contain my Prayers for a friend at the ringing 
of a Bell, or behold his Corps without an Orison for
his Soul: 'Twas a good way, methought, to be remem-
bred by posterity, and far more noble than an History.
These opinions I never maintained with pertinacy, or
endeavoured to inveagle any mans belief unto mine,
nor so much as ever revealed or disputed them with my
dearest friends; by which means I neither propagated
them in others, nor confirmed them in my self; but
suffering them to flame upon their own substance,
without addition of new fuel, they went out insensibly
of themselves: therefore these Opinions, though con-
demned by lawful Councils, were not Heresies in me,
but bare Errors, and single Lapses of my understand-
ing, without a joynt depravity of my will: Those have
not onely depraved understandings, but diseased affec-
tions, which cannot enjoy a singularity without an
Heresie, or be the Author of an Opinion without they
be of a Sect also; this was the villany of the first
Schism of Lucifer, who was not content to err alone,
but drew into his Faction many Legions; and upon
this experience he tempted only Eve, as well under-
standing the Communicable nature of Sin, and that to
deceive but one, was tacitely and upon consequence to
delude them both.

THAT Heresies should arise, we have the Pro-
phesie of Christ; but that old ones should
be abolished, we hold no prediction. That
there must be Heresies, is true, not only in our Church,
but also in any other: even in doctrines heretical,
there will be super-heresies; and Arians not only
divided from their Church, but also among themselves:
for heads that are disposed unto Schism and com-
plexionally propense to innovation, are naturally dis-
posed for a community; nor will be ever confined unto
the order or oeconomy of one body; and therefore when they separate from others, they knit but loosely among themselves, nor contented with a general breach or dichotomy with their Church, do subdivide and mince themselves almost into Atoms. 'Tis true, that men of singular parts and humours have not been free from singular opinions and conceits in all Ages; retaining something, not only beside the opinion of his own Church or any other, but also any particular Author; which notwithstanding a sober Judgment may do without offence or heresie; for there is yet, after all the Decrees of Councils and the niceties of Schools, many things untouch'd, unimagin'd, wherein the liberty of an honest reason may play and expatiate with security, and far without the circle of an Heresie.

SECT.

As for those wingy Mysteries in Divinity, and airy subtleties in Religion, which have unhing'd the brains of better heads, they never stretched the Pia Mater of mine. Methinks there be not impossibilities enough in Religion for an active faith; the deepest Mysteries ours contains have not only been illustrated, but maintained, by Syllogism and the rule of Reason. I love to lose my self in a mystery, to pursue my Reason to an O altitudo! 'Tis my solitary recreation to pose my apprehension with those involved Ænigma's and riddles of the Trinity, with Incarnation, and Resurrection. I can answer all the Objections of Satan and my rebellious reason with that odd resolution I learned of Tertullian, Certum est quia impossibile est. I desire to exercise my faith in the difficultest point; for to credit ordinary and visible objects is not faith, but perswasion. Some believe the
better for seeing Christ's Sepulchre; and when they have seen the Red Sea, doubt not of the Miracle. Now contrarily, I bless my self and am thankful that I lived not in the days of Miracles, that I never saw Christ nor His Disciples; I would not have been one of those Israelites that pass'd the Red Sea, nor one of Christ's patients on whom he wrought his wonders; then had my faith been thrust upon me, nor should I enjoy that greater blessing pronounced to all that believe and saw not. 'Tis an easie and necessary belief, to credit what our eye and sense hath examined: I believe he was dead, and buried, and rose again; and desire to see him in his glory, rather than to contemplate him in his Cenotaph or Sepulchre. Nor is this much to believe; as we have reason, we owe this faith unto History: they only had the advantage of a bold and noble Faith, who lived before his coming, who upon obscure prophesies and mystical Types could raise a belief, and expect apparent impossibilities.

'Tis true, there is an edge in all firm belief, and with an easie Metaphor we may say, the Sword of Faith; but in these obscurities I rather use it in the adjunct the Apostle gives it, a Buckler; under which I conceive a wary combatant may lye invulnerable. Since I was of understanding to know we knew nothing, my reason hath been more pliable to the will of Faith; I am now content to understand a mystery without a rigid definition, in an easie and Platonick description. That allegorical description of Hermes, pleaseth me beyond all the Metaphysical definitions of Divines; where I cannot satisfie my reason, I love to humour my fancy: I had

SECT. 10

\[ \text{\footnotesize \textit{Sphæra cujus centrum ubique, circumferentia nulli.}} \]
as live you tell me that *anima est angelus hominis, est Corpus Dei, as Entelechia; Lux est umbra Dei, as actus perspicui*; where there is an obscurity too deep for our Reason, 'tis good to sit down with a description, paraphrasis, or adumbration; for by acquainting our Reason how unable it is to display the visible and obvious effects of nature, it becomes more humble and submissive unto the subtleties of Faith; and thus I teach my haggard and unreclaimed reason to stoop unto the lure of Faith. I believe there was already a tree whose fruit our unhappy Parents tasted, though, in the same Chapter when God forbids it, 'tis positively said, the plants of the field were not yet grown, for God had not caus'd it to rain upon the earth. I believe that the Serpent (if we shall literally understand it) from his proper form and figure, made his motion on his belly before the curse. I find the tryal of the Pucellage and virginity of Women, which God ordained the Jews, is very fallible. Experience and History informs me, that not onely many particular Women, but likewise whole Nations have escaped the curse of Childbirth, which God seems to pronounce upon the whole Sex; yet do I believe that all this is true, which indeed my Reason would perswade me to be false; and this I think is no vulgar part of Faith, to believe a thing not only above, but contrary to Reason, and against the Arguments of our proper Senses.

IN my solitary and retired imagination (*Neque enim cum porticus, aut me lectulus accepit, desum mihi*) I remember I am not alone, and therefore forget not to contemplate him and his Attributes who is ever with me, especially those two mighty ones, his Wisdom and Eternity; with the one I recreate, with
the other I confound my understanding: for who can speak of Eternity without a solœcism, or think thereof without an Extasie? Time we may comprehend; 'tis but five days elder then our selves, and hath the same Horoscope with the World; but to retire so far back as to apprehend a beginning, to give such an infinite start forwards as to conceive an end in an essence that we affirm hath neither the one nor the other, it puts my Reason to St. Paul's Sanctuary: my Philosophy dares not say the Angels can do it; God hath not made a Creature that can comprehend him; 'tis a privilege of His own nature. I am that I am, was his own definition unto Moses; and 'twas a short one, to confound mortality, that durst question God, or ask him what he was; indeed he onely is; all others have and shall be; but in Eternity there is no distinction of Tenses; and therefore that terrible term Predestination, which hath troubled so many weak heads to conceive, and the wisest to explain, is in respect to God no precious determination of our Estates to come, but a definitive blast of his Will already fulfilled, and at the instant that he first decreed it; for to his Eternity which is indivisible and all together, the last Trump is already sounded, the reprobates in the flame, and the blessed in Abraham's bosome. St. Peter speaks modestly, when he saith, a thousand years to God are but as one day: for to speak like a Philosopher, those continued instances of time which flow into a thousand years, make not to Him one moment; what to us is to come, to his Eternity is present, his whole duration being but one permanent point, without Succession, Parts, Flux, or Division.
THERE is no Attribute that adds more difficulty to the mystery of the Trinity, where, though in a relative way of Father and Son, we must deny a priority. I wonder how Aristotle could conceive the World eternal, or how he could make good two Eternities: his similitude of a Triangle, comprehended in a square, doth somewhat illustrate the Trinity of our Souls, and that the Triple Unity of God; for there is in us not three, but a Trinity of Souls, because there is in us, if not three distinct Souls, yet differing faculties, that can and do subsist apart in different Subjects, and yet in us are thus united as to make but one Soul and substance: if one Soul were so perfect as to inform three distinct Bodies, that were a pretty Trinity: conceive, the distinct number of three, not divided nor separated by the Intellect, but actually comprehended in its Unity, and that is a perfect Trinity. I have often admired the mystical way of Pythagoras, and the secret Magick of numbers. Beware of Philosophy, is a precept not to be received in too large a sense; for in this Mass of Nature there is a set of things that carry in their Front, though not in Capital Letters, yet in Stenography and short Characters, something of Divinity, which to wiser Reasons serve as Luminaries in the Abyss of Knowledge, and to judicious beliefs as Scales and Roundles to mount the Pinacles and highest pieces of Divinity. The severe Schools shall never laugh me out of the Philosophy of Hermes, that this visible World is but a Picture of the invisible, wherein as in a Pourtraict, things are not truely, but in equivocal shapes, and as they counterfeit some more real substance in that invisible Fabrick.
THE FIRST PART

THAT other Attribute wherewith I recreate my devotion, is his Wisdom, in which I am happy; and for the contemplation of this only, do not repent me that I was bred in the way of Study: The advantage I have of the vulgar, with the content and happiness I conceive therein, is an ample recompence for all my endeavours, in what part of knowledge soever. Wisdom is his most beauteous Attribute, no man can attain unto it, yet Solomon pleased God when he desired it. He is wise, because he knows all things; and he knoweth all things, because he made them all: but his greatest knowledge is in comprehending that he made not, that is, himself. And this is also the greatest knowledge in man. For this do I honour my own profession, and embrace the Counsel even of the Devil himself: had he read such a Lecture in Paradise as he did at Delphos, we had better known our selves; nor had we stood in fear to know him. I know he is wise in all, wonderful in what we conceive, but far more in what we comprehend not; for we behold him but asquint, upon reflex or shadow; our understanding is dimmer than Moses Eye; we are ignorant of the back-parts or lower side of his Divinity; therefore to prie into the maze of his Counsels is not only folly in man, but presumption even in Angels; like us, they are his Servants, not his Senators; he holds no Counsel, but that mystical one of the Trinity, wherein though there be three Persons, there is but one mind that decrees without Contradiction: nor needs he any; his actions are not begot with deliberation, his Wisdom naturally knows what’s best; his intellect stands ready fraught with the superlative and purest Idea’s of goodness; consultation and election, which are two motions in us, make but one in him; his
actions springing from his power at the first touch of his will. These are Contemplations Metaphysical: my humble speculations have another Method, and are content to trace and discover those expressions he hath left in his Creatures, and the obvious effects of Nature; there is no danger to profound these mysteries, no sanctum sanctorum in Philosophy: the World was made to be inhabited by Beasts, but studied and contemplated by Man: 'tis the Debt of our Reason we owe unto God, and the homage we pay for not being Beasts; without this, the World is still as though it had not been, or as it was before the sixth day, when as yet there was not a Creature that could conceive, or say there was a World. The wisdom of God receives small honour from those vulgar Heads that rudely stare about, and with a gross rusticity admire his works; those highly magnifie him, whose judicious inquiry into His Acts, and deliberate research into His Creatures, return the duty of a devout and learned admiration. Therefore,

Search while thou wilt, and let thy reason go,
To ransome truth, even to th' Abyss below;
Rally the scattered Causes; and that line
Which Nature twists, be able to untwine:
It is thy Makers will, for unto none,
But unto reason can he e'er be known.
The Devils do know Thee, but those damn'd Meteors
Build not thy Glory, but confound thy Creatures.
Teach my indeavours so thy works to read,
That learning them in thee, I may proceed.
Give thou my reason that instructive flight,
Whose weary wings may on thy hands still light.
Teach me to soar aloft, yet ever so,
When neer the Sun, to stoop again below.
Thus shall my humble Feathers safely hover,
And, though near Earth, more than the Heavens discover.
And then at last, when homeward I shall drive,
Rich with the Spoils of nature to my hive,
There will I sit like that industrious Flie,
Buzzing thy praises, which shall never die,
Till death abrupts them, and succeeding Glory
Bid me go on in a more lasting story.

And this is almost all wherein an humble Creature
may endeavour to requite and some way to retribute
unto his Creator: for if not he that saith, Lord, Lord,
but he that doth the will of his Father, shall be saved;
certainly our wills must be our performances, and our
intsents make out our Actions; otherwise our pious
labours shall find anxiety in our Graves, and our best
endeavours not hope, but fear a resurrection.

There is but one first cause, and four second
causes of all things; some are without
efficient, as God; others without matter,
as Angels; some without form, as the first matter:
but every Essence created or uncreated, hath its final
cause, and some positive end both of its Essence and
Operation; this is the cause I grope after in the
works of Nature; on this hangs the providence of
God: to raise so beauteous a structure as the World
and the Creatures thereof, was but his Art; but their
sundry and divided operations, with their predestinated
ends, are from the Treasure of his wisdom. In the
causes, nature, and affections of the Eclipses of the
Sun and Moon, there is most excellent speculation;
but to profound farther, and to contemplate a reason
why his providence hath so disposed and ordered their
motions in that vast circle as to conjoin and obscure
each other, is a sweeter piece of Reason, and a diviner
point of Philosophy; therefore sometimes, and in some
things, there appears to me as much Divinity in Galen
his books *De Usu Partium*, as in *Suarez* Metaphysicks:
Had *Aristotle* been as curious in the enquiry of this
cause as he was of the other, he had not left behind
him an imperfect piece of Philosophy, but an absolute
tract of Divinity.

**SECT. 15**

*ATURA nihil agit frustra*, is the only indis-
pputed Axiome in Philosophy; there are no
*Grotesques* in nature; not any thing framed
to fill up empty Cantons, and unnecessary spaces: in
the most imperfect Creatures, and such as were not
preserved in the Ark, but having their Seeds and
Principles in the womb of Nature, are every where,
where the power of the Sun is; in these is the Wisdom
of his hand discovered. Out of this rank *Solomon*
chose the object of his admiration; indeed what
reason may not go to School to the wisdom of Bees,
Ants, and Spiders? what wise hand teacheth them to
do what reason cannot teach us? ruder heads stand
amazed at those prodigious pieces of Nature, Whales,
Elephants, Dromidaries and Camels; these, I confess,
are the Colossus and Majestick pieces of her hand:
but in these narrow Engines there is more curious
Mathematicks; and the civility of these little Citizens,
more neatly sets forth the Wisdom of their Maker.
Who admires not *Regio-Montanus* his Fly beyond his
Eagle, or wonders not more at the operation of two
Souls in those little Bodies, than but one in the Trunk
of a Cedar? I could never content my contemplation
with those general pieces of wonder, the Flux and Re-
flux of the Sea, the increase of *Nile*, the conversion of
the Needle to the North; and have studied to match
and parallel those in the more obvious and neglected
pieces of Nature, which without further trouble I can do in the Cosmography of my self; we carry with us the wonders we seek without us: There is all Africa and her prodigies in us; we are that bold and adventurous piece of nature, which he that studies wisely learns in a compendium what others labour at in a divided piece and endless volume.

Thus there are two Books from which I collect my Divinity; besides that written one of God, another of his servant Nature, that universal and publick Manuscript, that lies expans'd unto the Eyes of all, those that never saw him in the one, have discovered him in the other: this was the Scripture and Theology of the Heathens: the natural motion of the Sun made them more admire him, than its supernatural station did the Children of Israel; the ordinary effects of nature wrought more admiration in them than in the other all his Miracles; surely the Heathens knew better how to joyn and read these mystical Letters than we Christians, who cast a more careless Eye on these common Hieroglyphicks, and disdain to suck Divinity from the flowers of Nature. Nor do I so forget God as to adore the name of Nature; which I define not with the Schools, to be the principle of motion and rest, but that streight and regular line, that settled and constant course the Wisdom of God hath ordained the actions of His creatures, according to their several kinds. To make a revolution every day, is the Nature of the Sun, because of that necessary course which God hath ordained it, from which it cannot swerve but by a faculty from that voice which first did give it motion. Now this course of Nature God seldom alters or
perverts, but like an excellent Artist hath so contrived his work, that with the self same instrument, without a new creation, he may effect his obscurest designs. Thus he sweetneth the Water with a Word, preserveth the Creatures in the Ark, which the blast of his mouth might have as easily created; for God is like a skilful Geometrician, who when more easily and with one stroak of his Compass he might describe or divide a right line, had yet rather do this in a circle or longer way; according to the constituted and fore-laid principles of his Art: yet this rule of his he doth sometimes pervert, to acquaint the World with his Prerogative, lest the arrogancy of our reason should question his power, and conclude he could not; and thus I call the effects of Nature the works of God, whose hand and instrument she only is; and therefore to ascribe his actions unto her, is to devolve the honour of the principal agent upon the instrument; which if with reason we may do, then let our hammers rise up and boast they have built our houses, and our pens receive the honour of our writings. I hold there is a general beauty in the works of God, and therefore no deformity in any kind or species of creature whatsoever: I cannot tell by what Logick we call a Toad, a Bear, or an Elephant ugly, they being created in those outward shapes and figures which best express the actions of their inward forms. And having past that general Visitation of God, who saw that all that he had made was good, that is, conformable to his Will, which abhors deformity, and is the rule of order and beauty; there is no deformity but in Monstrosity; wherein, notwithstanding, there is a kind of Beauty. Nature so ingeniously contriving the irregular parts, as they become sometimes more remarkable than the
principal Fabrick. To speak yet more narrowly, there was never any thing ugly or mis-shapen, but the Chaos; wherein, notwithstanding, to speak strictly, there was no deformity, because no form; nor was it yet impregnant by the voice of God; now Nature was not at variance with Art, nor Art with Nature, they being both servants of his providence: Art is the perfection of Nature: were the World now as it was the sixth day, there were yet a Chaos: Nature hath made one World, and Art another. In brief, all things are artificial; for Nature is the Art of God.

This is the ordinary and open way of his providence, which Art and Industry have in a good part discovered, whose effects we may foretel without an Oracle: to foreshew these, is not Prophesie, but Prognostication. There is another way, full of Meanders and Labyrinths, whereof the Devil and Spirits have no exact Ephemerides, and that is a more particular and obscure method of his providence, directing the operations of individuals and single Essences: this we call Fortune, that serpentine and crooked line, whereby he draws those actions his wisdom intends, in a more unknown and secret way: This cryptick and involved method of his providence have I ever admired, nor can I relate the History of my life, the occurrences of my days, the escapes of dangers, and hits of chance, with a Bezo las Manos to Fortune, or a bare Gramercy to my good Stars: Abraham might have thought the Ram in the thicket came thither by accident; humane reason would have said, that meer chance conveyed Moses in the Ark to the sight of Pharaoh’s daughter: what a Labyrinth is there in the story of Joseph, able to convert a Stoick?
Surely there are in every man's Life certain rubs, doublings, and wrenches, which pass a while under the effects of chance, but at the last well examined, prove the mere hand of God. 'Twas not dumb chance, that to discover the Fougade or Powder-plot, contrived a miscarriage in the Letter. I like the victory of 88. the better for that one occurrence, which our enemies imputed to our dishonour and the partiality of Fortune, to wit, the tempests and contrariety of Winds. King Philip did not detract from the Nation, when he said, he sent his Armado to fight with men, and not to combate with the Winds. Where there is a manifest disproportion between the powers and forces of two several agents, upon a Maxime of reason we may promise the Victory to the Superiour; but when unexpected accidents slip in, and unthought of occurrences intervene, these must proceed from a power that owes no obedience to those Axioms; where, as in the writing upon the wall, we may behold the hand, but see not the spring that moves it. The success of that petty province of Holland (of which the Grand Seignour proudly said, if they should trouble him as they did the Spaniard, he would send his men with shovels and pick-axes, and throw it into the Sea,) I cannot altogether ascribe to the ingenuity and industry of the people, but the mercy of God, that hath disposed them to such a thriving Genius; and to the will of his Providence, that disposeth her favour to each Country in their pre-ordinate season. All cannot be happy at once; for, because the glory of one State depends upon the ruine of another, there is a revolution and vicissitude of their greatness, and must obey the swing of that wheel, not moved by Intelligences, but by the hand of God, whereby all Estates arise to their Zenith
and Vertical points according to their predestinated periods. For the lives, not only of men, but of Commonwealths, and the whole World, run not upon an Helix that still enlargeth; but on a Circle, where arriving to their Meridians, they decline in obscurity, and fall under the Horizon again.

These must not therefore be named the effects of Fortune, but in a relative way, and as we term the works of Nature: it was the ignorance of man's reason that begat this very name, and by a careless term miscalled the Providence of God: for there is no liberty for causes to operate in a loose and stragling way; nor any effect whatsoever, but hath its warrant from some universal or superior Cause. 'Tis not a ridiculous devotion to say a prayer before a game at Tables; for even in sortilegies and matters of greatest uncertainty, there is a settled and preordered course of effects. It is we that are blind, not Fortune: because our Eye is too dim to discover the mystery of her effects, we foolishly paint her blind, and hoodwink the Providence of the Almighty. I cannot justify that contemptible Proverb, That fools only are Fortunate; or that insolent Paradox, That a wise man is out of the reach of Fortune; much less those opprobrious epithets of Poets, Whore, Bawd, and Strumpet. 'Tis, I confess, the common fate of men of singular gifts of mind to be destitute of those of Fortune, which doth not any way deject the Spirit of wiser judgements, who thoroughly understand the justice of this proceeding; and being inrich'd with higher donatives, cast a more careless eye on these vulgar parts of felicity. It is a most unjust ambition to desire to engross the mercies of the Almighty, not to be content with the goods of mind,
without a possession of those of body or Fortune: and it is an error worse than heresie, to adore these com-
plemenetal and circumstantial pieces of felicity, and undervalue those perfections and essential points of happiness wherein we resemble our Maker. To wiser desires it is satisfaction enough to deserve, though not to enjoy the favours of Fortune; let Providence pro-
vide for Fools: 'tis not partiality, but equity in God, who deals with us but as our natural Parents; those that are able of Body and Mind, he leaves to their deserts; to those of weaker merits he imparts a larger portion, and pieces out the defect of one, by the access of the other. Thus have we no just quarrel with Nature, for leaving us naked; or to envy the Horns, Hoofs, Skins, and Furs of other Creatures, being pro-
vided with Reason, that can supply them all. We need not labour with so many Arguments to confute Judicial Astrology; for if there be a truth therein, it doth not injure Divinity: if to be born under Mercury disposeth us to be witty, under Jupiter to be wealthy; I do not owe a Knee unto those, but unto that merciful Hand that hath ordered my indifferent and un-
certain nativity unto such benevolous Aspects. Those that hold that all things are governed by Fortune, had not erred, had they not persisted there: The Romans that erected a temple to Fortune, acknowledged therein, though in a blinder way, somewhat of Divinity; for in a wise supputation all things begin and end in the Almighty. There is a nearer way to Heaven than Homer's Chain; an easy Logick may conjoin heaven and Earth, in one Argument, and with less than a Sorites resolve all things into God. For though we christen effects by their most sensible and nearest Causes, yet is God the true and infallible Cause of all,
whose concourse though it be general, yet doth it subdivide it self into the particular Actions of every thing, and is that Spirit, by which each singular Essence not only subsists, but performs its operation.

The bad construction, and perverse comment on these pair of second Causes, or visible hands of God, have perverted the Devotion of many unto Atheism; who, forgetting the honest Advises of Faith, have listened unto the conspiracy of Passion and Reason. I have therefore always endeavoured to compose those Feuds and angry Dissensions between Affection, Faith and Reason: For there is in our Soul a kind of Triumvirate, or triple Government of three Competitors, which distracts the Peace of this our Common-wealth, not less than did that other the State of Rome.

As Reason is a Rebel unto Faith, so Passion unto Reason: As the Propositions of Faith seem absurd unto Reason, so the Theorems of Reason unto Passion, and both unto Reason; yet a moderate and peaceable discretion may so state and order the matter, that they may be all Kings, and yet make but one Monarchy, every one exercising his Soveraignty and Prerogative in a due time and place, according to the restraint and limit of circumstance. There is, as in Philosophy, so in Divinity, sturdy doubts and boisterous Objections, wherewith the unhappiness of our knowledge too nearly acquainteth us. More of these no man hath known than my self, which I confess I conquered, not in a martial posture, but on my Knees. For our endeavours are not only to combat with doubts, but always to dispute with the Devil: the villany of that Spirit takes a hint of Infidelity
from our Studies, and by demonstrating a naturality in one way, makes us mistrust a miracle in another. Thus having perused the Archidoxes and read the secret Sympathies of things, he would disswade my belief from the miracle of the Brazen Serpent, make me conceit that Image worked by Sympathy, and was but an Ægyptian trick to cure their Diseases without a miracle. Again, having seen some experiments of Bitumen, and having read far more of Naphtha, he whispered to my curiosity the fire of the Altar might be natural; and bid me mistrust a miracle in Elias, when he entrenched the Altar round with Water: for that inflamable substance yields not easily unto Water, but flames in the Arms of its Antagonist. And thus would he inveagle my belief to think the combustion of Sodom might be natural, and that there was an Asphaltick and Bituminous nature in that Lake before the Fire of Gomorrah. I know that Manna is now plentifully gathered in Calabria; and Josephus tells me, in his days it was as plentiful in Arabia; the Devil therefore made the queere, Where was then the miracle in the days of Moses: the Israelite saw but that in his time, the Natives of those Countries behold in ours. Thus the Devil played at Chess with me, and yielding a Pawn, thought to gain a Queen of me, taking advantage of my honest endeavours; and whilst I laboured to raise the structure of my Reason, he strived to undermine the edifice of my Faith.

NEITHER had these or any other ever such advantage of me, as to incline me to any point of Infidelity or desperate positions of Atheism; for I have been these many years of opinion there was never any. Those that held Religion
was the difference of Man from Beasts, have spoken probably, and proceed upon a principle as inductive as the other. That doctrine of Epicurus, that denied the Providence of God, was no Atheism, but a magnificent and high strained conceit of his Majesty, which he deemed too sublime to mind the trivial Actions of those inferior Creatures. That fatal Necessity of the Stoicks, is nothing but the immutable Law of his will. Those that heretofore denied the Divinity of the Holy Ghost, have been condemned, but as Hereticks; and those that now deny our Saviour (though more than Hereticks) are not so much as Atheists: for though they deny two persons in the Trinity, they hold as we do, there is but one God.

That Villain and Secretary of Hell, that composed that miscreant piece of the Three Impostors, though divided from all Religions, and was neither Jew, Turk, nor Christian, was not a positive Atheist. I confess every country hath its Machiavel, every Age its Lucian, whereof common Heads must not hear, nor more advanced Judgments too rashly venture on: It is the Rhetorick of Satan, and may pervert a loose or prejudicate belief.

I CONFESSION I have perused them all, and can discover nothing that may startle a discreet belief; yet are there heads carried off with the Wind and breath of such motives. I remember a Doctor in Physick of Italy, who could not perfectly believe the immortality of the Soul, because Galen seemed to make a doubt thereof. With another I was familiarly acquainted in France, a Divine, and a man of singular parts, that on the same point was so plunged and gravelled with 1 three lines of Seneca, that 1 Post Mortem nihil est.
all our Antidotes, drawn from both Scripture and Philosophy, could not expel the poyson of his errour. There are a set of Heads, that can credit the relations of Mariners, yet question the Testimonies of St. Paul; and peremptorily maintain the traditions of Ælian or Pliny, yet in Histories of Scripture raise Queries and Objections, believing no more than they can parallel in humane Authors. I confess there are in Scripture Stories that do exceed the Fables of Poets, and to a captious Reader sound like Garagantua or Bevis: Search all the Legends of times past, and the fabulous conceits of these present, and 'twill be hard to find one that deserves to carry the Buckler unto Sampson; yet is all this of an easie possibility, if we conceive a divine concourse, or an influence but from the little Finger of the Almighty. It is impossible that either in the discourse of man, or in the infallible Voice of God, to the weakness of our apprehensions, there should not appear irregularities, contradictions, and antinomies: my self could shew a Catalogue of doubts, never yet imagined nor questioned, as I know, which are not resolved at the first hearing; not fantastick Queries or Objections of Air; for I cannot hear of Atoms in Divinity. I can read the History of the Pigeon that was sent out of the Ark, and returned no more, yet not question how she found out her Mate that was left behind: That Lazarus was raised from the dead, yet not demand where in the interim his Soul awaited; or raise a Law-case, whether his Heir might lawfully detain his inheritance bequeathed unto him by his death, and he, though restored to life, have no Plea or Title unto his former possessions. Whether Eve was framed out of the left side of Adam, I dispute not; because I stand not yet assured which is the right side of a man, or...
THE FIRST PART

whether there be any such distinction in Nature: that she was edified out of the Rib of Adam, I believe, yet raise no question who shall arise with that Rib at the Resurrection. Whether Adam was an Hermaphrodite, as the Rabbins contend upon the Letter of the Text, because it is contrary to reason, there should be an Hermaphrodite before there was a Woman; or a composition of two Natures before there was a second composed. Likewise, whether the World was created in Autumn, Summer, or the Spring, because it was created in them all; for whatsoever Sign the Sun possesseth, those four Seasons are actually existent: It is the Nature of this Luminary to distinguish the several Seasons of the year, all which it makes at one time in the whole Earth, and successive in any part thereof. There are a bundle of curiosities, not only in Philosophy, but in Divinity, proposed and discussed by men of most supposed abilities, which indeed are not worthy our vacant hours, much less our serious Studies. Pieces only fit to be placed in Pantagruel's Library, or bound up with Tartaretus, De modo Cacandi.

THESE are niceties that become not those that peruse so serious a Mystery: There are others more generally questioned and called to the Bar, yet methinks of an easie and possible truth. 'Tis ridiculous to put off, or down the general Flood of Noah in that particular inundation of Deucalion: that there was a Deluge once, seems not to me so great a Miracle, as that there is not one always. How all the kinds of Creatures, not only in their own bulks, but with a competency of food and sustenance, might be preserved in one Ark, and within the extent of three hundred Cubits, to a reason that rightly examines
it, will appear very feasible. There is another secret not contained in the Scripture, which is more hard to comprehend, and put the honest Father to the refuge of a Miracle: and that is, not only how the distinct pieces of the World, and divided Islands should be first planted by men, but inhabited by Tigers, Panthers, and Bears. How America abounded with Beasts of prey, and noxious Animals, yet contained not in it that necessary Creature, a Horse, is very strange. By what passage those, not only Birds, but dangerous and unwelcome Beasts, came over: How there be Creatures there (which are not found in this Triple Continent); all which must needs be strange unto us, that hold but one Ark, and that the Creatures began their progress from the Mountains of Ararat: They who to salve this would make the Deluge particular, proceed upon a principle that I can no way grant; not only upon the negative of holy Scriptures, but of mine own Reason, whereby I can make it probable, that the World was as well peopled in the time of Noah, as in ours; and fifteen hundred years to people the World, as full a time for them, as four thousand years since have been to us. There are other assertions and common Tenents drawn from Scripture, and generally believed as Scripture, whereunto notwithstanding, I would never betray the liberty of my Reason. 'Tis a Paradox to me, that Methusalem was the longest liv'd of all the Children of Adam: and no man will be able to prove it; when from the process of the Text, I can manifest it may be otherwise. That Judas perished by hanging himself, there is no certainty in Scripture: though in one place it seems to affirm it, and by a doubtful word hath given occasion to translate it; yet in another place, in a more punctual
description, it makes it improbable, and seems to overthrow it. That our Fathers, after the Flood, erected the Tower of Babel to preserve themselves against a second Deluge, is generally opinioned and believed, yet is there another intention of theirs expressed in Scripture: Besides, it is improbable from the circumstance of the place, that is, a plain in the Land of Shinar: These are no points of Faith, and therefore may admit a free dispute. There are yet others, and those familiarly concluded from the Text, wherein (under favour) I see no consequence: the Church of Rome, confidently proves the opinion of Tutelary Angels, from that Answer when Peter knockt at the Door; 'Tis not he, but his Angel; that is, might some say, his Messenger, or some body from him; for so the Original signifies, and is as likely to be the doubtful Families meaning. This exposition I once suggested to a young Divine, that answered upon this point; to which I remember the Franciscan Opponent replied no more, but That it was a new, and no authentick interpretation.

THESE are but the conclusions and fallible discourses of man upon the Word of God, for such I do believe the holy Scriptures: yet were it of man, I could not chuse but say, it was the singularest and superlative piece that hath been extant since the Creation: were I a Pagan, I should not refrain the Lecture of it; and cannot but commend the judgment of Ptolomy, that thought not his Library compleat without it. The Alcoran of the Turks (I speak without prejudice) is an ill composed Piece, containing in it vain and ridiculous Errors in Philosophy, impossibilities, fictions, and vanities beyond
laughter, maintained by evident and open Sophisms, the Policy of Ignorance, deposition of Universities, and banishment of Learning, that hath gotten Foot by Arms and violence: This without a blow, hath disseminated it self through the whole Earth. It is not unremarkable what Philo first observed, That the Law of Moses continued two thousand years without the least alteration; whereas, we see, the Laws of other Common-weals do alter with occasions; and even those, that pretended their Original from some Divinity, to have vanished without trace or memory. I believe besides Zoroaster, there were divers that writ before Moses, who, notwithstanding, have suffered the common fate of time. Mens Works have an age like themselves; and though they out-live their Authors, yet have they a stint and period to their duration: This only is a work too hard for the teeth of time, and cannot perish but in the general Flames, when all things shall confess their Ashes.

SECT. 24

I HAVE heard some with deep sighs lament the lost lines of Cicero; others with as many groans deplore the combustion of the Library of Alexandria: for my own part, I think there be too many in the World, and could with patience behold the urn and ashes of the Vatican, could I, with a few others, recover the perished leaves of Solomon. I would not omit a Copy of Enoch's Pillars, had they many nearer Authors than Josephus, or did not relish somewhat of the Fable. Some men have written more than others have spoken; "Pineda quotes more Authors in one work, than are necessary in a whole World. Of those three great inventions in Germany, there are two which are not without their incommodities, and

1 Pineda in his Monarchica Ecclesiastica quotes one thousand and forty Authors.
'tis disputable whether they exceed not their use and commodities. 'Tis not a melancholy *Utinam* of my own, but the desires of better heads, that there were a general Synod; not to unite the incompatible difference of Religion, but for the benefit of learning, to reduce it as it lay at first, in a few, and solid Authors; and to condemn to the fire those swarms & millions of *Rhapsodies* begotten only to distract and abuse the weaker judgements of Scholars, and to maintain the trade and mystery of Typographers.

I CANNOT but wonder with what exception the *Samaritans* could confine their belief to the *Pentateuch*, or five Books of *Moses*. I am ashamed at the Rabbinical Interpretation of the Jews, upon the Old Testament, as much as their defection from the New. And truly it is beyond wonder, how that contemptible and degenerate issue of *Jacob*, once so devoted to Ethnick Superstition, and so easily seduced to the Idolatry of their Neighbours, should now in such an obstinate and peremptory belief adhere unto their own Doctrine, expect impossibilities, and, in the face and eye of the Church, persist without the least hope of Conversion. This is a vice in them, that were a vertue in us; for obstinacy in a bad Cause is but constancy in a good. And herein I must accuse those of my own Religion; for there is not any of such a fugitive Faith, such an unstable belief, as a Christian; none that do so oft transform themselves, not unto several shapes of Christianity and of the same Species, but unto more unnatural and contrary Forms, of Jew and Mahometan; that, from the name of Saviour, can condescend to the bare term of Prophet; and from an old belief that he is come, fall
to a new expectation of his coming. It is the promise of Christ to make us all one Flock; but how and when this Union shall be, is as obscure to me as the last day. Of those four Members of Religion we hold a slender proportion; there are, I confess, some new additions, yet small to those which accrew to our Adversaries, and those only drawn from the revolt of Pagans, men but of negative Impieties, and such as deny Christ, but because they never heard of him: but the Religion of the Jew is expressly against the Christian, and the Mahometan against both. For the Turk, in the bulk he now stands, he is beyond all hope of conversion; if he fall asunder, there may be conceived hopes, but not without strong improbabilities. The Jew is obstinate in all fortunes; the persecution of fifteen hundred years hath but confirmed them in their Errour: they have already endured whatsoever may be inflicted, and have suffered, in a bad cause, even to the condemnation of their enemies. Persecution is a bad and indirect way to plant Religion: It hath been the unhappy method of angry Devotions, not only to confirm honest Religion, but wicked Heresies, and extravagant Opinions. It was the first stone and Basis of our Faith; none can more justly boast of Persecutions, and glory in the number and valour of Martyrs; for, to speak properly, those are true and almost only examples of fortitude: Those that are fetch’d from the field, or drawn from the actions of the Camp, are not oft-times so truely precedents of valour as audacity, and at the best attain but to some bastard piece of fortitude: If we shall strictly examine the circumstances and requisites which Aristotle requires to true and perfect valour, we shall find the name only in his Master Alexander, and as little in that Roman Worthy,
THE FIRST PART

Julius Caesar; and if any, in that easie and active way have done so nobly as to deserve that name, yet in the passive and more terrible piece these have surpassed, and in a more heroical way may claim the honour of that Title. 'Tis not in the power of every honest Faith to proceed thus far, or pass to Heaven through the flames; every one hath it not in that full measure, nor in so audacious and resolute a temper, as to endure those terrible tests and trials; who notwithstanding, in a peaceable way do truely adore their Saviour, and have (no doubt) a Faith acceptable in the eyes of God.

NOW as all that dye in the War are not termed Souldiers; so neither can I properly term all those that suffer in matters of Religion, Martyrs. The Council of Constance condemns John Huss for an Heretick; the Stories of his own Party stile him a Martyr: He must needs offend the Divinity of both, that says he was neither the one nor the other: There are many (questionless) canonised on earth, that shall never be Saints in Heaven; and have their names in Histories and Martyrologies, who in the eyes of God are not so perfect Martyrs, as was that wise Heathen Socrates, that suffered on a fundamental point of Religion, the Unity of God. I have often pitied the miserable Bishop that suffered in the cause of Antipodes, yet cannot chuse but accuse him of as much madness, for exposing his living on such a trifle; as those of ignorance and folly, that condemned him. I think my conscience will not give me the lye, if I say there are not many extant that in a noble way fear the face of death less than myself; yet, from the moral duty I owe...
to the Commandment of God, and the natural respects that I tender unto the conservation of my essence and being, I would not perish upon a Ceremony, Politick points, or indifferency: nor is my belief of that untractible temper, as not to bow at their obstacles, or connive at matters wherein there are not manifest impieties: The leaven therefore and ferment of all, not only Civil, but Religious actions, is Wisdom; without which, to commit our selves to the flames is Homicide, and (I fear) but to pass through one fire into another.

SECT. 27

THAT Miracles are ceased, I can neither prove, nor absolutely deny, much less define the time and period of their cessation: that they survived Christ, is manifest upon the Record of Scripture: that they out-lived the Apostles also, and were revived at the Conversion of Nations, many years after, we cannot deny, if we shall not question those Writers whose testimonies we do not controvert in points that make for our own opinions; therefore that may have some truth in it that is reported by the Jesuites of their Miracles in the Indies: I could wish it were true, or had any other testimony than their own Pens. They may easily believe those Miracles abroad, who daily conceive a greater at home, the transmutation of those visible elements into the Body and Blood of our Saviour: for the conversion of Water into Wine, which he wrought in Cana, or what the Devil would have had him done in the Wilderness, of Stones into Bread, compared to this, will scarce deserve the name of a Miracle. Though indeed to speak properly, there is not one Miracle greater than another, they being the extraordinary effects of the Hand of
God, to which all things are of an equal facility; and to create the World as easie as one single Creature. For this is also a Miracle, not onely to produce effects against, or above Nature, but before Nature; and to create Nature as great a Miracle as to contradict or transcend her. We do too narrowly define the Power of God, restraining it to our capacities. I hold that God can do all things; how he should work contradictions, I do not understand, yet dare not therefore deny. I cannot see why the Angel of God should question Esdras to recal the time past, if it were beyond his own power; or that God should pose mortality in that, which he was not able to perform himself. I will not say God cannot, but he will not perform many things, which we plainly affirm he cannot: this I am sure is the mannerliest proposition, wherein, notwithstanding, I hold no Paradox. For strictly his power is the same with his will, and they both with all the rest do make but one God.

THerefore that Miracles have been, I do believe; that they may yet be wrought by the living, I do not deny: but have no confidence in those which are fathered on the dead; and this hath ever made me suspect the efficacy of reliques, to examine the bones, question the habits and appurtenances of Saints, and even of Christ himself. I cannot conceive why the Cross that Helena found, and whereon Christ himself dyed, should have power to restore others unto life: I excuse not Constantine from a fall off his Horse, or a mischief from his enemies, upon the wearing those nails on his bridle, which our Saviour bore upon the Cross in his hands. I compute among Pia fraudes, nor many degrees before con-
sacred Swords and Roses, that which Baldwyn, King of Jerusalem, return’d the Genovese for their cost and pains in his War, to wit, the ashes of John the Baptist. Those that hold the sanctity of their Souls doth leave behind a tincture and sacred faculty on their bodies, speak naturally of Miracles, and do not salve the doubt. Now one reason I tender so little Devotion unto Reliques, is, I think, the slender and doubtful respect I have always held unto Antiquities: for that indeed which I admire, is far before Antiquity, that is, Eternity; and that is, God himself; who, though he be styled the ancient of days, cannot receive the adjunct of Antiquity, who was before the World, and shall be after it, yet is not older than it; for in his years there is no Climacter; his duration is Eternity, and far more venerable than Antiquity.

BUT above all things I wonder how the curiosity of wiser heads could pass that great and indisputable Miracle, the cessation of Oracles; and in what swoun their Reasons lay, to content themselves, and sit down with such a far-fetch’d and ridiculous reason as Plutarch alleadgeth for it. The Jews, that can believe the supernatural Solstice of the Sun in the days of Joshua, have yet the impudence to deny the Eclipse, which every Pagan confessed, at his death: but for this, it is evident beyond all contradiction, the Devil himself confessed it. Certainly it is not a warrantable curiosity, to examine the verity of Scripture by the concordance of humane history, or seek to confirm the Chronicle of Hester or Daniel by the authority of Megasthenes or Herodotus. I confess, I have had an unhappy curiosity this way, till I laughed my self out of it with a piece of Justine,
where he delivers that the Children of Israel for being scabbed were banished out of Egypt. And truely since I have understood the occurrences of the World, and know in what counterfeit shapes, and deceitful vizards times present represent on the stage things past; I do believe them little more then things to come. Some have been of my opinion, and endeavoured to write the History of their own lives; where- in Moses hath outgone them all, and left not onely the story of his life, but as some will have it, of his death also.

IT is a riddle to me, how this story of Oracles hath not worm'd out of the World that doubt- ful conceit of Spirits and Witches; how so many learned heads should so far forget their Metaphysicks, and destroy the ladder and scale of creatures, as to question the existence of Spirits: for my part, I have ever believed, and do now know, that there are Witches: they that doubt of these, do not onely deny them, but spirits; and are obliquely and upon consequence a sort not of Infidels, but Atheists. Those that to confute their incredulity desire to see apparitions, shall questionless never behold any, nor have the power to be so much as Witches; the Devil hath them already in a heresie as capital as Witchcraft; and to appear to them, were but to convert them. Of all the delusions wherewith he deceives mortality, there is not any that puzleth me more than the Legerdemain of Changelings; I do not credit those transformations of reasonable creatures into beasts, or that the Devil hath a power to transpeciate a man into a Horse, who tempted Christ (as a trial of his Divinity) to convert but stones into bread. I could believe that Spirits use
with man the act of carnality, and that in both sexes; I conceive they may assume, steal, or contrive a body, wherein there may be action enough to content decrepit lust, or passion to satisfy more active veneries; yet in both, without a possibility of generation: and therefore that opinion that Antichrist should be born of the Tribe of Dan, by conjunction with the Devil, is ridiculous, and a conceit fitter for a Rabbin than a Christian. I hold that the Devil doth really possess some men, the spirit of Melancholly others, the spirit of Delusion others; that as the Devil is concealed and denied by some, so God and good Angels are pretended by others whereof the late defection of the Maid of Germany hath left a pregnant example.

**SECT. 31**

AGAIN, I believe that all that use sorceries, incantations, and spells, are not Witches, or, as we term them, Magicians; I conceive there is a traditional Magick, not learned immediately from the Devil, but at second hand from his Scholars, who having once the secret betrayed, are able, and do emperically practise without his advice, they both proceeding upon the principles of Nature; where actives, aptly conjoinied to disposed passives, will under any Master produce their effects. Thus I think at first a great part of Philosophy was Witchcraft, which being afterward derived to one another, proved but Philosophy, and was indeed no more but the honest effects of Nature: What invented by us is Philosophy, learned from him is Magick. We do surely owe the discovery of many secrets to the discovery of good and bad Angels. I could never pass that sentence of Paracelsus, without an asterisk, or
annotation; 1 Ascendens constellation multa revelat, quærentibus magnalia naturæ, i.e. opera Dei. I do think that many mysteries ascribed to our own inventions, have been the courteous revelations of Spirits; for those noble essences in Heaven bear a friendly regard unto their fellow Natures on Earth; and therefore believe that those many prodigies and ominous prognosticks, which fore-run the ruines of States, Princes, and private persons, are the charitable premonitions of good Angels, which more careless enquiries term but the effects of chance and nature.

NOW, besides these particular and divided Spirits, there may be (for ought I know) an universal and common Spirit to the whole World. It was the opinion of Plato, and it is yet of the Hermetical Philosophers: if there be a common nature that unites and tyes the scattered and divided individuals into one species, why may there not be one that unites them all? However, I am sure there is a common Spirit that plays within us, yet makes no part of us; and that is the Spirit of God, the fire and scintillation of that noble and mighty Essence, which is the life and radical heat of Spirits, and those essences that know not the vertue of the Sun, a fire quite contrary to the fire of Hell: This is that gentle heat that broodeth on the waters, and in six days hatched the World; this is that irradiation that dispels the mists of Hell, the clouds of horrouer, fear, sorrow, despair; and preserves the region of the mind in serenity: Whatsoever feels not the warm gale and gentle ventilation of this Spirit, (though I feel his pulse) I dare not say he lives; for truely without this, to me there is no heat
under the Tropick; nor any light, though I dwelt in the body of the Sun.

As when the labouring Sun hath wrought his track
Up to the top of lofty Cancers back,
The yce Ocean cracks, the frozen pole
Thaws with the heat of the Celestial coale;
So when thy absent beams begin t' impart
Again a Solstice on my frozen heart,
My winter's ov'r; my drooping spirits sing,
And every part revives into a Spring.

But if thy quickening beams a while decline,
And with their light bless not this Orb of mine,
A chilly frost surpriseth every member,
And in the midst of June I feel December.
O how this earthly temper doth debase
The noble Soul in this her humble place.
Whose wingy nature ever doth aspire
To reach that place whence first it took its fire.
These flames I feel, which in my heart do dwell,
Are not thy beams, but take their fire from Hell.
O quench them all, and let thy light divine
Be as the Sun to this poor Orb of mine;
And to thy sacred Spirit convert those fires,
Whose earthly fumes choak my devout aspires.

THEREFORE for Spirits, I am so far from denying their existence, that I could easily believe, that not onely whole Countries, but particular persons, have their Tutelary and Guardian Angels: It is not a new opinion of the Church of Rome, but an old one of Pythagoras and Plato; there is no heresie in it; and if not manifestly defin'd in Scripture, yet is it an opinion of a good and wholesome use in the course and actions of a mans life, and would serve as an Hypothesis to salve many doubts, wereof common Philosophy affordeth no solution. Now if you demand my opinion and Metaphysicks of their natures, I confess them very shallow, most of them in a negative way, like that of God; or in a
comparative, between our selves and fellow-creatures; for there is in this Universe a Stair, or manifest Scale of creatures, rising not disorderly, or in confusion, but with a comely method and proportion. Between creatures of meer existence and things of life, there is a large disproportion of nature; between plants and animals or creatures of sense, a wider difference; between them and man, a far greater: and if the proportion hold one, between Man and Angels there should be yet a greater. We do not comprehend their natures, who retain the first definition of Porphyry, and distinguish them from our selves by immortality; for before his Fall, 'tis thought, Man also was Immortal; yet must we needs affirm that he had a different essence from the Angels; having therefore no certain knowledge of their Natures, 'tis no bad method of the Schools, whatsoever perfection we find obscurely in our selves, in a more compleat and absolute way to ascribe unto them. I believe they have an extemporary knowledge, and upon the first motion of their reason do what we cannot without study or deliberation; that they know things by their forms, and define by specifical difference what we describe by accidents and properties; and therefore probabilities to us may be demonstrations unto them: that they have knowledge not onely of the specifical, but numerical forms of individuals, and understand by what reserved difference each single Hypostasis (besides the relation to its species) becomes its numerical self. That as the Soul hath a power to move the body it informs, so there's a faculty to move any, though inform none; ours upon restraint of time, place, and distance; but that invisible hand that conveyed Habakkuk to the Lyons Den, or Philip to Azotus, infringeth this rule, and hath a secret conveyance,
wherewith mortality is not acquainted: if they have that intuitive knowledge, whereby as in reflexion they behold the thoughts of one another, I cannot peremptorily deny but they know a great part of ours. They that to refute the Invocation of Saints, have denied that they have any knowledge of our affairs below, have proceeded too far, and must pardon my opinion, till I can thoroughly answer that piece of Scripture, At the conversion of a sinner the Angels in Heaven rejoice. I cannot with those in that great Father securely interpret the work of the first day, Fiat lux, to the creation of Angels, though I confess there is not any creature that hath so neer a glimpse of their nature, as light in the Sun and Elements. We stile it a bare accident, but where it subsists alone, 'tis a spiritual Substance, and may be an Angel: in brief, conceive light invisible, and that is a Spirit.

THESE are certainly the Magisterial and master-pieces of the Creator, the Flower, or (as we may say) the best part of nothing, actually existing, what we are but in hopes and probability; we are onely that amphibious piece between a corporal and spiritual Essence, that middle form that links those two together, and makes good the Method of God and Nature, that jumps not from extreams, but unites the incompatible distances by some middle and participating natures: that we are the breath and similitude of God, it is indisputable, and upon record of holy Scripture; but to call ourselves a Microcosm, or little World, I thought it only a pleasant trope of Rhetorick, till my neer judgement and second thoughts told me there was a real truth therein: for first we are a rude mass, and in the rank of creatures, which onely
are, and have a dull kind of being, not yet privileged with life, or preferred to sense or reason; next we live the life of Plants, the life of Animals, the life of Men, and at last the life of Spirits, running on in one mysterious nature those five kinds of existences, which comprehend the creatures not onely of the World, but of the Universe; thus is man that great and true Amphibium, whose nature is disposed to live not onely like other creatures in divers elements, but in divided and distinguished worlds: for though there be but one to sense, there are two to reason, the one visible, the other invisible, whereof Moses seems to have left description, and of the other so obscurely, that some parts thereof are yet in controversie. And truely for the first chapters of Genesis, I must confess a great deal of obscurity; though Divines have to the power of humane reason endeavoured to make all go in a literal meaning, yet those allegorical interpretations are also probable, and perhaps the mystical method of Moses bred up in the Hieroglyphical Schools of the Egyptians.

NOW for that immaterial world, methinks we need not wander so far as beyond the first moveable; for even in this material Fabrick the spirits walk as freely exempt from the affection of time, place, and motion, as beyond the extremest circumference: do but extract from the corpulency of bodies, or resolve things beyond their first matter, and you discover the habitation of Angels, which if I call the ubiquitary and omnipresent essence of God, I hope I shall not offend Divinity: for before the Creation of the World God was really all things. For the Angels he created no new World, or determinate mansion, and
therefore they are everywhere where is his Essence, and do live at a distance even in himself. That God made all things for man, is in some sense true, yet not so far as to subordinate the Creation of those purer Creatures unto ours, though as ministering Spirits they do, and are willing to fulfil the will of God in these lower and sublunary affairs of man: God made all things for himself, and it is impossible he should make them for any other end than his own Glory; it is all he can receive, and all that is without himself: for honour being an external adjunct, and in the honourer rather than in the person honoured, it was necessary to make a Creature, from whom he might receive this homage; and that is in the other world Angels, in this, Man; which when we neglect, we forget the very end of our Creation, and may justly provoke God, not onely to repent that he hath made the World, but that he hath sworn he would not destroy it. That there is but one World, is a conclusion of Faith. Aristotle with all his Philosophy hath not been able to prove it, and as weakly that the world was eternal; that dispute much troubled the Pen of the Philosophers, but Moses decided that question, and all is salved with the new term of a Creation, that is, a production of something out of nothing; and what is that? Whatsoever is opposite to something; or more exactly, that which is truely contrary unto God; for he onely is, all others have an existence with dependency, and are something but by a distinction; and herein is Divinity conformant unto Philosophy, and generation not onely founded on contrarities, but also creation; God being all things, is contrary unto nothing, out of which were made all things, and so nothing became something, and Omneity informed Nullity into an Essence.
THE whole Creation is a Mystery, and particularly that of Man; at the blast of his mouth were the rest of the Creatures made, and at his bare word they started out of nothing: but in the frame of Man (as the Text describes it) he played the sensible operator, and seemed not so much to create, as make him; when he had separated the materials of other creatures, there consequently resulted a form and soul; but having raised the walls of man, he has driven to a second and harder creation of a substance like himself, an incorruptible and immortal Soul. For these two affections we have the Philosophy and opinion of the Heathens, the flat affirmative of Plato, and not a negative from Aristotle: there is another scruple cast in by Divinity (concerning its production) much disputed in the Germane auditories, and with that indifferency and equality of arguments, as leave the controversie undetermined. I am not of Paracelsus mind, that boldly delivers a receipt to make a man without conjunction; yet cannot but wonder at the multitude of heads that do deny traduction, having no other argument to confirm their belief, then that Rhetorical sentence, and Antimetathesis of Augustine, Creando infunditur, infundendo creatur: either opinion will consist well enough with Religion; yet I should rather incline to this, did not one objection haunt me, not wrung from speculations and subtleties, but from common sense and observation; not pickt from the leaves of any Author, but bred amongst the weeds and tares of mine own brain: And this is a conclusion from the equivocal and monstrous productions in the copulation of Man with Beast: for if the Soul of man be not transmitted, and transfused in the seed of the Parents, why are not those productions
meerly beasts, but have also an impression and tincture of reason in as high a measure, as it can evidence it self in those improper Organs? Nor truely can I peremptorily deny, that the Soul in this her sublunar estate, is wholly, and in all acceptions inorganical, but that for the performance of her ordinary actions, there is required not onely a symmetry and proper disposition of Organs, but a Crasis and temper correspondent to its operations. Yet is not this mass of flesh and visible structure the instrument and proper corps of the Soul, but rather of Sense, and that the hand of Reason. In our study of Anatomy there is a mass of mysterious Philosophy, and such as reduced the very Heathens to Divinity: yet amongst all those rare discourses, and curious pieces I find in the Fabrick of man, I do not so much content my self, as in that I find not, there is no Organ or Instrument for the rational soul: for in the brain, which we term the seat of reason, there is not any thing of moment more than I can discover in the crany of a beast: and this is a sensible and no inconsiderable argument of the inorganity of the Soul, at least in that sense we usually so conceive it. Thus we are men, and we know not how; there is something in us that can be without us, and will be after us, though it is strange that it hath no history, what it was before us, nor cannot tell how it entred in us.

NOW for these walls of flesh, wherein the Soul doth seem to be immured, before the Resurrection, it is nothing but an elemental composition, and a Fabrick that must fall to ashes. All flesh is grass, is not onely metaphoricallly, but litterally, true; for all those creatures we
behold, are but the herbs of the field, digested into flesh in them, or more remotely carnified in our selves. Nay further, we are what we all abhor, *Anthropophagi* and Cannibals, devourers not only of men, but of our selves; and that not in an allegory, but a positive truth: for all this mass of flesh which we behold, came in at our mouths; this frame we look upon, hath been upon our trenchers; in brief, we have devour'd our selves. I cannot believe the wisdom of *Pythagoras* did ever positively, and in a literal sense, affirm his *Metempsychosis*, or impossible transmigration of the Souls of men into beasts: of all Metamorphoses, or transmigrations, I believe only one, that is of *Lots* wife; for that of *Nebuchodonosor* proceeded not so far; in all others I conceive there is no further verity than is contained in their implique sense and morality. I believe that the whole frame of a beast doth perish, and is left in the same state after death as before it was materialled unto life; that the souls of men know neither contrary nor corruption; that they subsist beyond the body, and outlive death by the priviledge of their proper natures, and without a Miracle; that the Souls of the faithful, as they leave Earth, take possession of Heaven: that those apparitions and ghosts of departed persons are not the wandring souls of men, but the unquiet walks of Devils, prompting and suggesting us unto mischief, blood, and villany; instilling and stealing into our hearts that the blessed spirits are not at rest in their graves, but wander sollicitous of the affairs of the World; but that those phantasms appear often, and do frequent Cemeteries, Charnel-houses, and Churches, it is because those are the dormitories of the dead, where the Devil like an insolent Champion beholds with pride the spoils and Trophies of his Victory over *Adam*. 
THIS is that dismal conquest we all deplore, that makes us so often cry (O) Adam, quid fecisti? I thank God I have not those strait ligaments, or narrow obligations to the World, as to dote on life, or be convulsed and tremble at the name of death: Not that I am insensible of the dread and horrour thereof, or by raking into the bowels of the deceased, continual sight of Anatomies, Skeletons, or Cadaverous reliques, like Vespilloes, or Grave-makers, I am become stupid, or have forgot the apprehension of Mortality; but that marshalling all the horrours, and contemplating the extremities thereof, I find not any thing therein able to daunt the courage of a man, much less a well-resolved Christian: And therefore am not angry at the error of our first Parents, or unwilling to bear a part of this common fate, and like the best of them to dye, that is, to cease to breathe, to take a farewel of the elements, to be a kind of nothing for a moment, to be within one instant of a spirit. When I take a full view and circle of my self, without this reasonable moderator, and equal piece of Justice, Death, I do conceive my self the miserablest person extant; were there not another life that I hope for, all the vanities of this World should not intreat a moment's breath from me: could the Devil work my belief to imagine I could never dye, I would not outlive that very thought; I have so abject a conceit of this common way of existence, this retaining to the Sun and Elements, I cannot think this is to be a man, or to live according to the dignity of humanity: in exspectation of a better, I can with patience embrace this life, yet in my best meditations do often defe death: I honour any man that contemns it, nor can I highly love any that is afraid of it: this
makes me naturally love a Souldier, and honour those tattered and contemptible Regiments, that will dye at the command of a Sergeant. For a Pagan there may be some motives to be in love with life; but for a Christian to be amazed at death, I see not how he can escape this Dilemma, that he is too sensible of this life, or hopeless of the life to come.

SOME Divines count Adam 30 years old at his creation, because they suppose him created in the perfect age and stature of man. And surely we are all out of the computation of our age, and every man is some months elder than he bethinks him; for we live, move, have a being, and are subject to the actions of the elements, and the malice of diseases, in that other world, the truest Microcosm, the Womb of our Mother. For besides that general and common existence we are conceived to hold in our Chaos, and whilst we sleep within the bosome of our causes, we enjoy a being and life in three distinct worlds, wherein we receive most manifest graduations: In that obscure World and womb of our mother, our time is short, computed by the Moon; yet longer then the days of many creatures that behold the Sun, our selves being not yet without life, sense, and reason; though for the manifestation of its actions, it awaits the opportunity of objects, and seems to live there but in its root and soul of vegetation; entering afterwards upon the scene of the World, we arise up and become another creature, performing the reasonable actions of man, and obscurely manifesting that part of Divinity in us, but not in complement and perfection, till we have once more cast our secondine, that is, this slough of flesh, and are delivered into the last
world, that is, that ineffable place of Paul, that proper ubi of spirits. The smattering I have of the Philosophers Stone (which is something more then the perfect exaltation of Gold) hath taught me a great deal of Divinity, and instructed my belief, how that immortal spirit and incorruptible substance of my Soul may lye obscure, and sleep a while within this house of flesh. Those strange and mystical transmigrations that I have observed in Silk-worms, turned my Philosophy into Divinity. There is in these works of nature, which seem to puzzle reason, something Divine, and hath more in it then the eye of a common spectator doth discover.

SECT. 40

I AM naturally bashful, nor hath conversation, age or travel, been able to effront, or enharden me; yet I have one part of modesty which I have seldom discovered in another, that is, (to speak truely) I am not so much afraid of death, as ashamed thereof; 'tis the very disgrace and ignominy of our natures, that in a moment can so disfigure us, that our nearest friends, Wife, and Children stand afraid and start at us. The Birds and Beasts of the field, that before in a natural fear obeyed us, forgetting all allegiance, begin to prey upon us. This very conceit hath in a tempest disposed and left me willing to be swallowed up in the abyss of waters; wherein I had perished unseen, unpityed, without wondering eyes, tears of pity, Lectures of mortality, and none had said, Quantum mutatus ab illo! Not that I am ashamed of the Anatomy of my parts, or can accuse Nature for playing the bungler in any part of me, or my own vicious life for contracting any shameful disease upon me, whereby I might not call my self as wholesome a morsel for the worms as any.
SOME upon the courage of a fruitful issue, wherein, as in the truest Chronicle, they seem to outlive themselves, can with greater patience away with death. This conceit and counterfeit subsisting in our progenies, seems to me a meer fallacy, unworthy the desires of a man, that can but conceive a thought of the next World; who, in a nobler ambition, should desire to live in his substance in Heaven, rather than his name and shadow in the earth. And therefore at my death I mean to take a total adieu of the world, not caring for a Monument, History, or Epitaph, not so much as the memory of my name to be found any where, but in the universal Register of God. I am not yet so Cynical, as to approve the 1 Testament of Diogenes, nor do I altogether allow that Rodomontado of Lucan;

— Caelo tegitur, qui non habet urnam.

He that unburied lies wants not his Herse,
For unto him a Tomb's the Universe.

But commend in my calmer judgement, those ingenuous intentions that desire to sleep by the urns of their Fathers, and strive to go the neatest way unto corruption. I do not envy the temper of Crows and Daws, nor the numerous and weary days of our Fathers before the Flood. If there be any truth in Astrology, I may outlive a Jubilee; as yet I have not seen one revolution of Saturn, nor hath my pulse beat thirty years; and yet excepting one, have seen the Ashes, & left under ground all the Kings of Europe; have been contemporary to three Emperours, four Grand Signiours, and as many Popes: methinks I have outlived my self, and begin to be weary of the Sun; I have shaken hands with delight: in my warm blood

1 Who willed his friend not to bury him, but hang him up with a staff in his hand to fright away the crows.
and Canicular days, I perceive I do anticipate the vices of age; the World to me is but a dream or mock-show, and we all therein but Pantalones and Anticks, to my severer contemplations.

Sect. 42

It is not, I confess, an unlawful prayer to desire to surpass the days of our Saviour, or wish to outlive that age wherein he thought fittest to dye; yet if (as Divinity affirms) there shall be no gray hairs in Heaven, but all shall rise in the perfect state of men, we do but outlive those perfections in this World, to be recalled unto them by a greater Miracle in the next, and run on here but to be retrograde hereafter. Were there any hopes to outlive vice, or a point to be super-annuated from sin, it were worthy our knees to implore the days of Methuselah. But age doth not rectifie, but incurvate our natures, turning bad dispositions into worser habits, and (like diseases) brings on incurable vices; for every day as we grow weaker in age, we grow stronger in sin; and the number of our days doth make but our sins innumerable. The same vice committed at sixteen, is not the same, though it agree in all other circumstances, at forty, but swells and doubles from the circumstance of our ages, wherein, besides the constant and inexcusable habit of transgressing, the maturity of our judgement cuts off pretence unto excuse or pardon: every sin the oftner it is committed, the more it acquireth in the quality of evil; as it succeeds in time, so it proceeds in degrees of badness; for as they proceed they ever multiply, and like figures in Arithmetick, the last stands for more than all that went before it. And though I think no man can live well once, but he that could live twice, yet for my own part I would not live over
THE FIRST PART

my hours past, or begin again the thread of my days: not upon Cicero’s ground, because I have lived them well, but for fear I should live them worse: I find my growing Judgment daily instruct me how to be better, but my untamed affections and confirmed vitiosity makes me daily do worse; I find in my confirmed age the same sins I discovered in my youth; I committed many then because I was a Child, and because I commit them still, I am yet an infant. Therefore I perceive a man may be twice a Child before the days of dotage; and stands in need of Æsops Bath before threescore.

And truely there goes a great deal of providence to produce a mans life unto threescore: there is more required than an able temper for those years; though the radical humour contain in it sufficient oyl for seventy, yet I perceive in some it gives no light past thirty: men assign not all the causes of long life, that write whole Books thereof. They that found themselves on the radical balsome, or vital sulphur of the parts, determine not why Abel lived not so long as Adam. There is therefore a secret glome or bottome of our days: ’twas his wisdom to determine them, but his perpetual and waking providence that fulfils and accomplisheth them; wherein the spirits, our selves, and all the creatures of God in a secret and disputed way do execute his will. Let them not therefore complain of immaturity that die about thirty; they fall but like the whole World, whose solid and well-composed substance must not expect the duration and period of its constitution: when all things are compleated in it, its age is accomplished; and the last and general fever may as naturally destroy
it before six thousand, as me before forty; there is therefore some other hand that twines the thread of life than that of Nature: we are not onely ignorant in Antipathies and occult qualities; our ends are as obscure as our beginnings; the line of our days is drawn by night, and the various effects therein by a pensil that is invisible; wherein though we confess our ignorance, I am sure we do not err if we say it is the hand of God.

SECT. 44

I AM much taken with two verses of Lucan, since I have been able not onely as we do at School, to construe, but understand.

Victurosque Dei celant ut vivere durent,
Felix esse mori.

We’re all deluded, vainly searching ways
To make us happy by the length of days;
For cunningly to make’s protract this breath,
The Gods conceal the happiness of Death.

There be many excellent strains in that Poet, wherewith his Stoical Genius hath liberally supplied him; and truely there are singular pieces in the Philosophy of Zeno, and doctrine of the Stoicks, which I perceive, delivered in a Pulpit, pass for current Divinity: yet herein are they in extrems, that can allow a man to be his own Assassine, and so highly extol the end and suicide of Cato; this is indeed not to fear death, but yet to be afraid of life. It is a brave act of valour to contemn death; but where life is more terrible than death, it is then the truest valour to dare to live; and herein Religion hath taught us a noble example: For all the valiant acts of Curtius, Scevola, or Codrus, do not parallel or match that one of Job; and sure there is no torture to the rack of a disease, nor any Ponyards
in death it self like those in the way or prologue to it. Emori nolo, sed me esse mortuum nihil curo; I would not die, but care not to be dead. Were I of Caesar's Religion, I should be of his desires, and wish rather to go off at one blow, then to be sawed in pieces by the grating torture of a disease. Men that look no farther than their outsides, think health an appurtenance unto life, and quarrel with their constitutions for being sick; but I, that have examined the parts of man, and know upon what tender filaments that Fabrick hangs, do wonder that we are not always so; and considering the thousand doors that lead to death, do thank my God that we can die but once. 'Tis not onely the mischief of diseases, and villany of poysons, that make an end of us; we vainly accuse the fury of Guns, and the new inventions of death; it is in the power of every hand to destroy us, and we are beholding unto every one we meet, he doth not kill us. There is therefore but one comfort left, that, though it be in the power of the weakest arm to take away life, it is not in the strongest to deprive us of death: God would not exempt himself from that, the misery of immortality in the flesh; he undertook not that was immortal. Certainly there is no happiness within this circle of flesh, nor is it in the Opticks of these eyes to behold felicity; the first day of our Jubilee is Death; the Devil hath therefore failed of his desires; we are happier with death than we should have been without it: there is no misery but in himself, where there is no end of misery; and so indeed in his own sense the Stoick is in the right. He forgets that he can dye who complains of misery; we are in the power of no calamity while death is in our own.
NOW besides the literal and positive kind of death, there are others whereof Divines make mention, and those I think, not meerly Metaphorical, as mortification, dying unto sin and the World; therefore, I say, every man hath a double Horoscope, one of his humanity, his birth; another of his Christianity, his baptism, and from this do I compute or calculate my Nativity; not reckoning those Horæ combustæ and odd days, or esteeming my self any thing, before I was my Saviours, and inrolled in the Register of Christ: Whosoever enjoys not this life, I count him but an apparition, though he wear about him the sensible affections of flesh. In these moral acceptions, the way to be immortal is to dye daily; nor can I think I have the true Theory of death, when I contemplate a skull, or behold a Skeleton with those vulgar imaginations it casts upon us; I have therefore enlarged that common Memento mori, into a more Christian memorandum, Memento quattuor Novissimæ, those four inevitable points of us all, Death, Judgement, Heaven, and Hell. Neither did the contemplations of the Heathens rest in their graves, without further thought of Rhadamanth or some judicial proceeding after death, though in another way, and upon suggestion of their natural reasons. I cannot but marvel from what Sibyl or Oracle they stole the Prophesie of the worlds destruction by fire, or whence Lucan learned to say,

Communis mundo superest rogue, ossibus astra Misturus.
There yet remains to th' World one common Fire,
Wherein our bones with stars shall make one Pyre.

I believe the World grows near its end, yet is neither old nor decayed, nor shall ever perish upon the ruines of its own Principles. As the work of Creation was
above nature, so its adversary annihilation; without which the World hath not its end, but its mutation. Now what force should be able to consume it thus far, without the breath of God, which is the truest consuming flame, my Philosophy cannot inform me. Some believe there went not a minute to the Worlds creation, nor shall there go to its destruction; those six days, so punctually described, make not to them one moment, but rather seem to manifest the method and Idea of the great work of the intellect of God, than the manner how he proceeded in its operation. I cannot dream that there should be at the last day any such Judicial proceeding, or calling to the Bar, as indeed the Scripture seems to imply, and the literal Commentators do conceive: for unspeakable mysteries in the Scriptures are often delivered in a vulgar and illustrative way; and being written unto man, are delivered, not as they truely are, but as they may be understood; wherein notwithstanding the different interpretations according to different capacities may stand firm with our devotion, nor be any way prejudicial to each single edification.

NOW to determine the day and year of this inevitable time, is not onely convincible and statute-madness, but also manifest impiety: How shall we interpret Elias 6000 years, or imagine the secret communicated to a Rabbi, which God hath denied unto his Angels? It had been an excellent Quære to have posed the Devil of Delphos, and must needs have forced him to some strange amphibology; it hath not onely mocked the predictions of sundry Astrologers in Ages past, but the prophesies of many melancholy heads in these present, who neither under-
standing reasonably things past or present, pretend a knowledge of things to come; heads ordained only to manifest the incredible effects of melancholy, and to fulfil old prophecies rather than be the authors of new. In those days there shall come Wars and rumours of Wars, to me seems no prophecy, but a constant truth, in all times verified since it was pronounced: There shall be signs in the Moon and Stars; how comes he then like a Thief in the night, when he gives an item of his coming? That common sign drawn from the revelation of Antichrist, is as obscure as any: in our common compute he hath been come these many years; but for my own part to speak freely, I am half of opinion that Antichrist is the Philosophers stone in Divinity; for the discovery and invention thereof, though there be prescribed rules and probable inducions, yet hath hardly any man attained the perfect discovery thereof. That general opinion that the World grows neer its end, hath possessed all ages past as neerly as ours; I am afraid that the Souls that now depart, cannot escape that lingring expostulation of the Saints under the Altar, Quousque, Domine? How long, O Lord? and groan in the expectation of that great Jubilee.

SECT. 47

THIS is the day that must make good that great attribute of God, his Justice; that must reconcile those unanswerable doubts that torment the wisest understandings, and reduce those seeming inequalities, and respective distributions in this world, to an equality and recompensive Justice in the next. This is that one day, that shall include and comprehend all that went before it; wherein, as in the last scene, all the Actors must enter, to compleat
and make up the Catastrophe of this great piece. This is the day whose memory hath onely power to make us honest in the dark, and to be vertuous without a witness. *Ipsa sui pretium virtus sibi*, that Vertue is her own reward, is but a cold principle, and not able to maintain our variable resolutions in a constant and setled way of goodness. I have practised that honest artifice of *Seneca*, and in my retired and solitary imaginations, to detain me from the foulness of vice, have fancied to my self the presence of my dear and worthiest friends, before whom I should lose my head, rather than be vitious: yet herein I found that there was nought but moral honesty, and this was not to be vertuous for his sake who must reward us at the last. I have tryed if I could reach that great resolution of his, to be honest without a thought of Heaven or Hell; and indeed I found, upon a natural inclination, and inbred loyalty unto virtue, that I could serve her without a livery; yet not in that resolved and venerable way, but that the frailty of my nature, upon *easie temptation*, might be induced to forget her. The life therefore and spirit of all our actions, is the resurrection, and a stable apprehension that our ashes shall enjoy the fruit of our pious endeavours: without this, all Religion is a fallacy, and those impieties of *Lucian, Euripides, and Julian*, are no blasphemies, but subtle verities, and Atheists have been the onely Philosophers.

**HOW** shall the dead arise, is no question of my Faith; to believe only possibilities, is not Faith, but meer Philosophy. Many things are true in Divinity, which are neither inducible by reason, nor confirmable by sense; and many things in

*I insert any, 1672.*
Philosophy confirmable by sense, yet not inducible by reason. Thus it is impossible by any solid or demonstrative reasons to persuade a man to believe the conversion of the Needle to the North; though this be possible and true, and easily credible, upon a single experiment unto the sense. I believe that our estranged and divided ashes shall unite again; that our separated dust after so many Pilgrimages and transformations into the parts of Minerals, Plants, Animals, Elements, shall at the Voice of God return into their primitive shapes, and join again to make up their primary and predestinate forms. As at the Creation there was a separation of that confused mass into its pieces; so at the destruction thereof there shall be a separation into its distinct individuals. As at the Creation of the World, all the distinct species that we behold lay involved in one mass, till the fruitful Voice of God separated this united multitude into its several species: so at the last day, when those corrupted reliques shall be scattered in the Wilderness of forms, and seem to have forgot their proper habits, God by a powerful Voice shall command them back into their proper shapes, and call them out by their single individuals: Then shall appear the fertility of Adam, and the magick of that sperm that hath dilated into so many millions. I have often beheld as a miracle, that artificial resurrection and revivification of Mercury, how being mortified into a thousand shapes, it assumes again its own, and returns into its numerical self. Let us speak naturally, and like Philosophers, the forms of alterable bodies in these sensible corruptions perish not; nor as we imagine, wholly quit their mansions, but retire and contract themselves into their secret and unaccessible parts, where they may best protect them-
selves from the action of their Antagonist. A plant or vegetable consumed to ashes, by a contemplative and school-Philosopher seems utterly destroyed, and the form to have taken his leave for ever: But to a sensible Artist the forms are not perished, but withdrawn into their incombustible part, where they lie secure from the action of that devouring element. This is made good by experience, which can from the Ashes of a Plant revive the plant, and from its cinders recal it into its stalk and leaves again. What the Art of man can do in these inferiour pieces, what blasphemy is it to affirm the finger of God cannot do in these more perfect and sensible structures? This is that mystical Philosophy, from whence no true Scholar becomes an Atheist, but from the visible effects of nature grows up a real Divine, and beholds not in a dream, as Ezekiel, but in an ocular and visible object the types of his resurrection.

NOW, the necessary Mansions of our restored selves, are those two contrary and incompatible places we call Heaven and Hell; to define them, or strictly to determine what and where these are, surpasseth my Divinity. That elegant Apostle which seemed to have a glimpse of Heaven, hath left but a negative description thereof; which neither eye hath seen, nor ear hath heard, nor can enter into the heart of man: he was translated out of himself to behold it; but being returned into himself, could not express it. St. John's description by Emerals, Chrysolites, and precious Stones, is too weak to express the material Heaven we behold. Briefly therefore, where the Soul hath the full measure and complement of happiness; where the boundless appetite of that
spirit remains compleatly satisfied, that it can neither desire addition nor alteration; that I think is truly Heaven: and this can onely be in the enjoiyment of that essence, whose infinite goodness is able to terminate the desires of it self, and the unsatiable wishes of ours; wherever God will thus manifest himself, there is Heaven though within the circle of this sensible world. Thus the Soul of man may be in Heaven any where, even within the limits of his own proper body; and when it ceaseth to live in the body, it may remain in its own soul, that is, its Creator: and thus we may say that St. Paul, whether in the body, or out of the body, was yet in Heaven. To place it in the Empyreal, or beyond the tenth sphear, is to forget the world’s destruction; for when this sensible world shall be destroyed, all shall then be here as it is now there, an Empyreal Heaven, a quasi vacuity; when to ask where Heaven is, is to demand where the Presence of God is, or where we have the glory of that happy vision. Moses that was bred up in all the learning of the Egyptians, committed a gross absurdity in Philosophy, when with these eyes of flesh he desired to see God, and petitioned his Maker, that is, truth it self, to a contradiction. Those that imagine Heaven and Hell neighbours, and conceive a vicinity between those two extreams, upon consequence of the Parable, where Dives discoursed with Lazarus in Abraham’s bosome, do too grosly conceive of those glorified creatures, whose eyes shall easily out-see the Sun, and behold without a perspec- tive the extreamest distances: for if there shall be in our glorified eyes, the faculty of sight and reception of objects, I could think the visible species there to be in as unlimitable a way as now the intellectual. I grant that two bodies placed beyond the tenth sphear,
THE FIRST PART

or in a vacuity, according to Aristotle's Philosophy, could not behold each other, because there wants a body or Medium to hand and transport the visible rays of the object unto the sense; but when there shall be a general defect of either Medium to convey, or light to prepare and dispose that Medium, and yet a perfect vision, we must suspend the rules of our Philosophy, and make all good by a more absolute piece of opticks.

I CANNOT tell how to say that fire is the essence of Hell: I know not what to make of Purgatory, or conceive a flame that can either prey upon, or purifie the substance of a Soul: those flames of sulphur mention'd in the Scriptures, I take not to be understood of this present Hell, but of that to come, where fire shall make up the complement of our tortures, and have a body or subject wherein to manifest its tyranny. Some who have had the honour to be textuary in Divinity, are of opinion it shall be the same specifical fire with ours. This is hard to conceive, yet can I make good how even that may prey upon our bodies, and yet not consume us: for in this material World there are bodies that persist invincible in the powerfullest flames; and though by the action of fire they fall into ignition and liquation, yet will they never suffer a destruction. I would gladly know how Moses with an actual fire calcin'd, or burnt the Golden Calf into powder: for that mystical metal of Gold, whose solary and celestial nature I admire, exposed unto the violence of fire, grows onely hot, and liquifies, but consumeth not; so when the consumable and volatile pieces of our bodies shall be refined into a more impregnable and fixed temper, like Gold, though they suffer from the action of flames, they
shall never perish, but lye immortal in the arms of fire. And surely if this frame must suffer onely by the action of this element, there will many bodies escape, and not onely Heaven, but Earth will not be at an end, but rather a beginning. For at present it is not earth, but a composition of fire, water, earth, and air; but at that time, spoiled of these ingredients, it shall appear in a substance more like it self, its ashes. Philosophers that opinioned the worlds destruction by fire, did never dream of annihilation, which is beyond the power of sublunary causes; for the last action of that element is but vitrification, or a reduction of a body into glass; and therefore some of our Chymicks facetiously affirm, that at the last fire all shall be christallized and reverberated into glass, which is the utmost action of that element. Nor need we fear this term annihilation, or wonder that God will destroy the works of his Creation: for man subsisting, who is, and will then truely appear, a Microcosm, the world cannot be said to be destroyed. For the eyes of God, and perhaps also of our glorified selves, shall as really behold and contemplate the World in its Epitome or contracted essence, as now it doth at large and in its dilated substance. In the seed of a Plant to the eyes of God, and to the understanding of man, there exists, though in an invisible way, the perfect leaves, flowers, and fruit thereof: (for things that are in posse to the sense, are actually existent to the understanding). Thus God beholds all things, who contemplates as fully his works in their Epitome, as in their full volume; and beheld as amply the whole world in that little compendium of the sixth day, as in the scattered and dilated pieces of those five before.

* Last and proper, 1672.
MEN commonly set forth the torments of Hell
by fire, and the extremity of corporal afflictions, and describe Hell in the same method
that Mahomet doth Heaven. This indeed makes a
noise, and drums in popular ears; but if this be the
terrible piece thereof, it is not worthy to stand in
diameter with Heaven, whose happiness consists in
that part that is best able to comprehend it, that
immortal essence, that translated divinity and colony
of God, the Soul. Surely though we place Hell under
Earth, the Devil's walk and purlue is about it: men
speak too popularly who place it in those flaming
mountains, which to grosser apprehensions represent
Hell. The heart of man is the place the Devils dwell
in; I feel sometimes a Hell within my self; Lucifer
keeps his Court in my breast; Legion is revived in me.
There are as many Hells, as Anaxagoras conceited
worlds; there was more than one Hell in Magdalene,
when there were seven Devils; for every Devil is an
Hell unto himself; he holds enough of torture in his
own ubi, and needs not the misery of circumference to
afflict him. And thus a distracted Conscience here, is
a shadow or introduction unto Hell hereafter. Who
can but pity the merciful intention of those hands that
do destroy themselves? the Devil, were it in his power,
would do the like; which being impossible, his miseries
are endless, and he suffers most in that attribute
wherein he is impassible, his immortality.

I THANK God that with joy I mention it, I was
never afraid of Hell, nor never grew pale at the
description of that place; I have so fixed my con-
templations on Heaven, that I have almost forgot the
Idea of Hell, and am afraid rather to lose the Joys of
the one, than endure the misery of the other: to be deprived of them is a perfect Hell, and needs methinks no addition to compleat our afflications; that terrible term hath never detained me from sin, nor do I owe any good action to the name thereof; I fear God, yet am not afraid of him; his mercies make me ashamed of my sins, before his Judgements afraid thereof: these are the forced and secondary method of his wisdom, which he useth but as the last remedy, and upon provocation; a course rather to deter the wicked, than incite the virtuous to his worship. I can hardly think there was ever any scared into Heaven; they go the fairest way to Heaven that would serve God without a Hell; other Mercenaries, that crouch into him in fear of Hell, though they term themselves the servants, are indeed but the slaves of the Almighty.

AND to be true, and speak my soul, when I survey the occurrences of my life, and call into account the Finger of God, I can perceive nothing but an abyss and mass of mercies, either in general to mankind, or in particular to my self: and whether out of the prejudice of my affection, or an inverting and partial conceit of his mercies, I know not; but those which others term crosses, afflictions, judgements, misfortunes, to me who inquire farther into them then their visible effects, they both appear, and in event have ever proved, the secret and dissimulated favours of his affection. It is a singular piece of Wisdom to apprehend truly, and without passion, the Works of God, and so well to distinguish his Justice from his Mercy, as not miscall those noble Attributes: yet it is likewise an honest piece of Logick, so to dispute and argue the proceedings of
God, as to distinguish even his judgments into mercies. For God is merciful unto all, because better to the worst, than the best deserve; and to say he punisheth none in this world, though it be a Paradox, is no absurdity. To one that hath committed Murther, if the Judge should only ordain a Fine, it were a madness to call this a punishment, and to repine at the sentence, rather than admire the clemency of the Judge. Thus our offences being mortal, and deserving not onely Death, but Damnation; if the goodness of God be content to traverse and pass them over with a loss, misfortune, or disease; what frensie were it to term this a punishment, rather than an extremity of mercy; and to groan under the rod of his Judgements, rather than admire the Scepter of his Mercies? Therefore to adore, honour, and admire him, is a debt of gratitude due from the obligation of our nature, states, and conditions; and with these thoughts, he that knows them best, will not deny that I adore him. That I obtain Heaven, and the bliss thereof, is accidental, and not the intended work of my devotion; it being a felicity I can neither think to deserve, nor scarce in modesty to expect. For these two ends of us all, either as rewards or punishments, are mercifully ordained and disproportionably disposed unto our actions; the one being so far beyond our deserts, the other so infinitely below our demerits.

There is no Salvation to those that believe not in Christ, that is, say some, since his Nativity, and as Divinity affirmeth, before also; which makes me much apprehend the ends of those honest Worthies and Philosophers which dyed before his Incarnation. It is hard to place those
Souls in Hell, whose worthy lives do teach us Virtue on Earth: methinks amongst those many subdivisions of Hell, there might have been one Limbo left for these. What a strange vision will it be to see their Poetical fictions converted into Verities, and their imagined and fancied Furies into real Devils? how strange to them will sound the History of Adam, when they shall suffer for him they never heard of? when they who derive their genealogy from the Gods, shall know they are the unhappy issue of sinful man? It is an insolent part of reason, to controvert the Works of God, or question the Justice of his proceedings. Could Humility teach others, as it hath instructed me, to contemplate the infinite and incomprehensible distance betwixt the Creator and the Creature; or did we seriously perpend that one simile of St. Paul, Shall the Vessel say to the Potter, Why hast thou made me thus? it would prevent these arrogant disputes of reason, nor would we argue the definitive sentence of God, either to Heaven or Hell. Men that live according to the right rule and law of reason, live but in their own kind, as beasts do in theirs; who justly obey the prescript of their natures, and therefore cannot reasonably demand a reward of their actions, as onely obeying the natural dictates of their reason. It will therefore, and must at last appear, that all salvation is through Christ; which verity I fear these great examples of virtue must confirm, and make it good, how the perfectest actions of earth have no title or claim unto Heaven.
NOR truely do I think the lives of these or of any other, were ever correspondent, or in all points conformable unto their doctrines. It is evident that Aristotle transgressed the rule of his own Ethicks; the Stoicks that condemn passion, and command a man to laugh in Phalaris his Bull, could not endure without a groan a fit of the Stone or Colick. The Scepticks that affirmed they knew nothing, even in that opinion confute themselves, and thought they knew more than all the World beside. Diogenes I hold to be the most vain-glorious man of his time, and more ambitious in refusing all Honours, than Alexander in rejecting none. Vice and the Devil put a Fallacy upon our Reasons, and provoking us too hastily to run from it, entangle and profound us deeper in it. The Duke of Venice, that weds himself unto the Sea by a Ring of Gold, I will not argue of prodigality, because it is a solemnity of good use and consequence in the State: but the Philosopher that threw his money into the Sea to avoid Avarice, was a notorious prodigal. There is no road or ready way to virtue; it is not an easie point of art to disentangle our selves from this riddle, or web of Sin: To perfect virtue, as to Religion, there is required a Panoplia, or compleat armour; that whilst we lye at close ward against one Vice, we lye not open to the venny of another. And indeed wiser discretions that have the thred of reason to conduct them, offend without pardon; whereas, under-heads may stumble without dishonour. There go so many circumstances to piece up one good action, that it is a lesson to be good, and we are forced to be virtuous by the book. Again, the Practice of men holds not an equal pace, yea, and often runs counter to their Theory; we
naturally know what is good, but naturally pursue what is evil: the Rhetorick wherewith I perswade another, cannot perswade my self: there is a depraved appetite in us, that will with patience hear the learned instructions of Reason, but yet perform no farther than agrees to its own irregular humour. In brief, we all are monsters, that is, a composition of Man and Beast; wherein we must endeavour to be as the Poets fancy that wise man Chiron, that is, to have the region of Man above that of Beast, and Sense to sit but at the feet of Reason. Lastly, I do desire with God that all, but yet affirm with men, that few shall know Salvation; that the bridge is narrow, the passage strait unto life: yet those who do confine the Church of God, either to particular Nations, Churches or Families, have made it far narrower then our Saviour ever meant it.

SECT. 56

The vulgarity of those judgements that wrap the Church of God in Strabo's cloak, and restrain it unto Europe, seem to me as bad Geographers as Alexander, who thought he had Conquer'd all the World, when he had not subdued the half of any part thereof. For we cannot deny the Church of God both in Asia and Africa, if we do not forget the Peregrinations of the Apostles, the deaths of the Martyrs, the Sessions of many, and, even in our reformed judgement, lawful Councils, held in those parts in the minority and nonage of ours. Nor must a few differences, more remarkable in the eyes of man than perhaps in the judgement of God, excommunicate from Heaven one another, much less those Christians who are in a manner all Martyrs, maintaining their Faith, in the noble way of persecution, and serving God
in the Fire, whereas we honour him in the Sunshine. 'Tis true, we all hold there is a number of Elect, and many to be saved; yet take our Opinions together, and from the confusion thereof there will be no such thing as salvation, nor shall any one be saved. For first, the Church of Rome condemneth us, we likewise them; the Sub-reformists and Sectaries sentence the Doctrine of our Church as damnable; the Atomist, or Familist, reprobates all these; and all these, them again. Thus whilst the Mercies of God do promise us Heaven, our conceits and opinions exclude us from that place. There must be, therefore, more than one St. Peter: particular Churches and Sects usurp the gates of Heaven, and turn the key against each other: and thus we go to Heaven against each others wills, conceits and opinions; and with as much uncharity as ignorance, do err I fear in points not only of our own, but one another's salvation.

I BELIEVE many are saved, who to man seem reprobated; and many are reprobated, who in the opinion and sentence of man, stand elected: there will appear at the Last day, strange and unexpected examples both of his Justice and his Mercy; and therefore to define either, is folly in man, and insolency even in the Devils: those acute and subtil spirits in all their sagacity, can hardly divine who shall be saved; which if they could Prognostick, their labour were at an end; nor need they compass the earth seeking whom they may devour. Those who upon a rigid application of the Law, sentence Solomon unto damnation, condemn not onely him, but themselves, and the whole World: for by the Letter and written Word of God, we are without exception in the state of Death; but
there is a prerogative of God, and an arbitrary pleasure above the Letter of his own Law, by which alone we can pretend unto Salvation, and through which Solomon might be as easily saved as those who condemn him.

SECT. 58 THE number of those who pretend unto Salvation, and those infinite swarms who think to pass through the eye of this Needle, have much amazed me. That name and compellation of little Flock, doth not comfort, but deject my Devotion; especially when I reflect upon mine own unworthiness, wherein, according to my humble apprehensions, I am below them all. I believe there shall never be an Anarchy in Heaven, but as there are Hierarchies amongst the Angels, so shall there be degrees of priority amongst the Saints. Yet is it (I protest) beyond my ambition to aspire unto the first ranks; my desires onely are, and I shall be happy therein, to be but the last man, and bring up the Rere in Heaven.

SECT. 59 AGAIN, I am confident and fully perswaded, yet dare not take my oath, of my Salvation: I am as it were sure, and do believe without all doubt, that there is such a City as Constantinople; yet for me to take my Oath thereon were a kind of Perjury, because I hold no infallible warrant from my own sense to confirm me in the certainty thereof: And truly, though many pretend an absolute certainty of their Salvation, yet when an humble Soul shall contemplate our own unworthiness, she shall meet with many doubts, and suddenly find how little we stand in need
of the Precept of St. Paul, *Work out your salvation with fear and trembling.* That which is the cause of my Election, I hold to be the cause of my Salvation, which was the mercy and beneplacit of God, before I was, or the foundation of the World. *Before Abraham was, I am,* is the saying of Christ; yet is it true in some sense, if I say it of myself; for I was not onely before myself, but *Adam,* that is, in the Idea of God, and the decree of that Synod held from all Eternity. And in this sense, I say, the World was before the Creation, and at an end before it had a beginning; and thus was I dead before I was alive: though my grave be *England,* my dying place was Paradise: and *Eve* miscarried of me, before she conceiv’d of Cain.

**INSOLENT** zeals that do decry good Works, and rely onely upon Faith, take not away merit: for depending upon the efficacy of their Faith, they enforce the condition of God, and in a more sophistical way do seem to challenge Heaven. It was decreed by God, that only those that lapt in the water like *Dogs,* should have the honour to destroy the *Midianites*; yet could none of those justly challenge, or imagine he deserved that honour thereupon. I do not deny, but that true Faith, and such as God requires, is not onely a mark or token, but also a means of our Salvation; but where to find this, is as obscure to me, as my last end. And if our Saviour could object unto his own Disciples and Favourites, a Faith, that, to the quantity of a grain of Mustard-seed, is able to remove Mountains; surely that which we boast of, is not any thing, or at the most, but a remove from nothing. This is the Tenor of my belief; wherein, though there
be many things singular, and to the humour of my irregular self; yet if they square not with maturer Judgements I disclaim them, and do no further favour them, than the learned and best judgements shall authorize them.
NOW for that other Virtue of Charity, without which Faith is a meer notion, and of no existence, I have ever endeavoured to nourish the merciful disposition and humane inclination I borrowed from my Parents, and regulate it to the written and prescribed Laws of Charity; and if I hold the true Anatomy of my self, I am delineated and naturally framed to such a piece of virtue. For I am of a constitution so general, that it comforts and sympathizeth with all things; I have no antipathy, or rather Idio-syncrasie, in dyet, humour, air, any thing: I wonder not at the French for their dishes of Frogs, Snails, and Toadstools, nor at the Jews for Locusts and Grasshoppers; but being amongst them, make them my common Viands, and I find they agree with my Stomach as well as theirs. I could digest a Sallad gathered in a Churchyard, as well as in a Garden. I cannot start at the presence of a Serpent, Scorpion, Lizard, or Salamander: at the sight of a Toad or Viper, I find in me no desire to take up a stone to destroy them. I feel not in my self those common Antipathies that I can discover in others: Those National repugnances do not touch me, nor do I behold with prejudice the French, Italian, Spaniard, or Dutch; but where I find their actions in balance with my Country-men's, I honour, love, and
embrace them in the same degree. I was born in the eighth Climate, but seem for to be framed and constellated unto all: I am no Plant that will not prosper out of a Garden: All places, all airs make unto me one Countrie; I am in England, every where, and under any Meridian. I have been shipwrackt, yet am not enemy with the Sea or Winds; I can study, play, or sleep in a Tempest. In brief, I am averse from nothing; my Conscience would give me the lye if I should absolutely detest or hate any essence but the Devil; or so at least abhor any thing, but that we might come to composition. If there be any among those common objects of hatred I do contemn and laugh at, it is that great enemy of Reason, Virtue and Religion, the Multitude; that numerous piece of monstrosity, which taken asunder seem men, and the reasonable creatures of God; but confused together, make but one great beast, and a monstrosity more prodigious than Hydra: it is no breach of Charity to call these Fools; it is the style all holy Writers have afforded them, set down by Solomon in Canonical Scripture, and a point of our Faith to believe so. Neither in the name of Multitude do I onely include the base and minor sort of people; there is a rabble even amongst the Gentry, a sort of Plebeian heads, whose fancy moves with the same wheel as these; men in the same Level with Mechanicks, though their fortunes do somewhat guild their infirmities, and their purses compound for their follies. But as in casting account, three or four men together come short in account of one man placed by himself below them: So neither are a troop of these ignorant Doradoes, of that true esteem and value, as many a forlorn person, whose condition doth place him below their feet. Let
us speak' like Politicians, there is a Nobility without Heraldry, a natural dignity, whereby one man is ranked with another; another filed before him, according to the quality of his Desert, and preheminence of his good parts: Though the corruption of these times, and the byas of present practice wheel another way. Thus it was in the first and primitive Commonwealths, and is yet in the integrity and Cradle of well-order'd Polities, till corruption getteth ground, ruder desires labouring after that which wiser considerations con-temn; every one having a liberty to amass and heap up riches, and they a licence or faculty to do or purchase any thing.

**THIS** general and indifferent temper of mine doth more neerly dispose me to this noble virtue. It is a happiness to be born and framed unto virtue, and to grow up from the seeds of nature, rather than the inoculation and forced grafts of education: yet if we are directed only by our particular Natures, and regulate our inclinations by no higher rule than that of our reasons, we are but Moralists; Divinity will still call us Heathens. Therefore this great work of charity must have other motives, ends, and impulsions: I give no alms only to satisfie the hunger of my Brother, but to fulfil and accomplish the Will and Command of my God: I draw not my purse for his sake that demands it, but his that enjoyned it; I relieve no man upon the Rhetorick of his miseries, nor to content mine own commiserating disposition: for this is still but moral charity, and an act that oweth more to passion than reason. He that relieves another upon the bare suggestion and bowels of pity, doth not this so much for his sake, as for his own:
for by compassion we make others misery our own, and so by relieving them, we relieve our selves also. It is as erroneous a conceit to redress other Mens misfortunes upon the common considerations of merciful natures, that it may be one day our own case; for this is a sinister and politick kind of charity, whereby we seem to bespeak the pities of men in the like occasions: and truly I have observed that those professed Eleemosynaries, though in a crowd or multitude, do yet direct and place their petitions on a few and selected persons: there is surely a Physiognomy, which those experienced and Master Mendicants observe; whereby they instantly discover a merciful aspect, and will single out a face, wherein they spy the signatures and marks of Mercy: for there are mystically in our faces certain Characters which carry in them the motto of our Souls, wherein he that can read A. B. C. may read our natures. I hold moreover that there is a Phytognomy, or Physiognomy, not only of Men but of Plants and Vegetables; and in every one of them, some outward figures which hang as signs or bushes of their inward forms. The Finger of God hath left an Inscription upon all his works, not graphical, or composed of Letters, but of their several forms, constitutions, parts, and operations; which aptly joyned together do make one word that doth express their natures. By these Letters God calls the Stars by their names; and by this Alphabet Adam assigned to every creature a name peculiar to its nature. Now there are, besides these Characters in our Faces, certain mystical figures in our Hands, which I dare not call meer dashes, strokes a la voicée, or at random, because delineated by a Pencil that never works in vain; and hereof I take more particular notice, because I carry that in mine own hand,
which I could never read of, nor discover in another. Aristotle I confess, in his acute and singular Book of Physiognomy, hath made no mention of Chiromancy; yet I believe the Egyptians, who were neerer addicted to those abstruse and mystical sciences, had a knowledge therein; to which those vagabond and counterfeit Egyptians did after pretend, and perhaps retained a few corrupted principles, which sometimes might verifie their prognosticks.

It is the common wonder of all men, how among so many millions of faces, there should be none alike: Now contrary, I wonder as much how there should be any. He that shall consider how many thousand several words have been carelesly and without study composed out of 24 Letters; withal, how many hundred lines there are to be drawn in the Fabrick of one Man; shall easily find that this variety is necessary: And it will be very hard that they shall so concur, as to make one portract like another. Let a Painter carelesly limb out a million of Faces, and you shall find them all different; yea let him have his Copy before him, yet after all his art there will remain a sensible distinction; for the pattern or example of every thing is the perfectest in that kind, whereof we still come short, though we transcend or go beyond it, because herein it is wide, and agrees not in all points unto the Copy. Nor doth the similitude of Creatures disparage the variety of Nature, nor any way confound the Works of God. For even in things alike there is diversity; and those that do seem to accord, do manifestly disagree. And thus is man like God; for in the same things that we resemble him, we are utterly different from him. There was never any thing so like another, as in all points to concur; there will ever
some reserved difference slip in, to prevent the identity, without which, two several things would not be alike, but the same, which is impossible.

**Sect. 3**

But to return from Philosophy to Charity: I hold not so narrow a conceit of this virtue, as to conceive that to give Alms is onely to be Charitable, or think a piece of Liberality can comprehend the Total of Charity. Divinity hath wisely divided the act thereof into many branches, and hath taught us in this narrow way, many paths unto goodness: as many ways as we may do good, so many ways we may be charitable: there are infirmities, not onely of Body, but of Soul, and Fortunes, which do require the merciful hand of our abilities. I cannot contemn a man for ignorance, but behold him with as much pity as I do Lazarus. It is no greater Charity to cloath his body, than apparel the nakedness of his Soul. It is an honourable object to see the reasons of other men wear our Liveries, and their borrowed understandings do homage to the bounty of ours: It is the cheapest way of beneficence, and like the natural charity of the Sun, illuminates another without obscuring it self. To be reserved and caitiff in this part of goodness, is the sordidest piece of covetousness, and more contemptible than pecuniary Avarice. To this (as calling my self a Scholar) I am obliged by the duty of my condition: I make not therefore my head a grave, but a treasure of knowledge; I intend no Monopoly, but a community in learning; I study not for my own sake only, but for theirs that study not for themselves. I envy no man that knows more than my self, but pity them that know less. I instruct no man as an exercise of my knowledge,
THE SECOND PART

or with an intent rather to nourish and keep it alive in mine own head, then beget and propagate it in his; and in the midst of all my endeavours, there is but one thought that dejects me, that my acquired parts must perish with my self, nor can be Legacied among my honoured Friends. I cannot fall out, or contemn a man for an error, or conceive why a difference in Opinion should divide an affection: For Controversies, Disputes, and Argumentations, both in Philosophy and in Divinity, if they meet with discreet and peaceable natures, do not infringe the Laws of Charity: in all disputes, so much as there is of passion, so much there is of nothing to the purpose; for then Reason, like a bad Hound, spends upon a false Scent, and forsakes the question first started. And this is one reason why Controversies are never determined; for though they be amply proposed, they are scarce at all handled, they do so swell with unnecessary Digressions; and the Parenthesis on the party, is often as large as the main discourse upon the subject. The Foundations of Religion are already established, and the Principles of Salvation subscribed unto by all: there remains not many controversies worth a Passion, and yet never any disputed without, not only in Divinity, but inferiour Arts: What a βατραχομυμαξία and hot skirmish is betwixt S. and T. in Lucian: How do Grammarians hack and slash for the Genitive case in Jupiter? How do they break their own pates to salve that of Priscian! Si foret in terris, rideret Democritus. Yea, even amongst wiser militants, how many wounds have been given, and credits slain, for the poor victory of an opinion, or beggarly conquest of a distinction? Scholars are men of Peace, they bear no Arms, but their tongues are sharper than Actus his razor; their Pens carry
farther, and give a lowder report than Thunder: I had rather stand the shock of a Basilisco, than the fury of a merciless Pen. It is not meer Zeal to Learning, or Devotion to the Muses, that wiser Princes Patron the Arts, and carry an indulgent aspect unto Scholars; but a desire to have their names eternized by the memory of their writings, and a fear of the revengeful Pen of succeeding ages: for these are the men, that when they have played their parts, and had their _exits_, must step out and give the moral of their Scenes, and deliver unto Posterity an Inventory of their Virtues and Vices. And surely there goes a great deal of Conscience to the compiling of an History: there is no reproach to the scandal of a Story; it is such an authentick kind of falshood, that with authority belies our good names to all Nations and Posterity.

_THERE_ is another offence unto Charity, which no Author hath ever written of, and few take notice of; and that's the reproach, not of whole professions, mysteries and conditions, but of whole Nations; wherein by opprobrious Epithets we miscal each other, and by an uncharitable Logick, from a disposition in a few, conclude a habit in all.

_Le mutin Anglois, & le bravache Escossois;_
_Le bougre Italian, & le fol François;_
_Le poultron Romain, le larron de Gascongne,_
_L'Espagnol superbe, & l'Aleman yvronge._

St. _Paul_, that calls the _Cretians_ lyars, doth it but indirectly, and upon quotation of their own Poet. It is as bloody a thought in one way, as _Nero's_ was in another. For by a word we wound a thousand, and at one blow assassine the honour of a Nation. It is as compleat a piece of madness to miscal and rave
against the times, or think to recal men to reason, by a fit of passion: *Democritus,* that thought to laugh the times into goodness, seems to me as deeply Hypochondriack, as *Heraclitus* that bewailed them. It moves not my spleen to behold the multitude in their proper humours, that is, in their fits of folly and madness, as well understanding that wisdom is not prophan'd unto the World, and 'tis the priviledge of a few to be Vertuous. They that endeavour to abolish Vice, destroy also Virtue; for contraries, though they destroy one another, are yet in life of one another. Thus Virtue (abolish vice) is an Idea; again, the community of sin doth not disparage goodness; for when Vice gains upon the major part, Virtue, in whom it remains, becomes more excellent; and being lost in some, multiplies its goodness in others, which remain untouched, and persist intire in the general inundation. I can therefore behold Vice without a Satyr, content only with an admonition, or instructive reprehension, for Noble Natures, and such as are capable of goodness, are railed into vice, that might as easily be admonished into virtue; and we should be all so far the Orators of goodness, as to protract her from the power of Vice, and maintain the cause of injured truth. No man can justly censure or condemn another, because indeed no man truly knows another. This I perceive in my self; for I am in the dark to all the world, and my nearest friends behold me but in a cloud: those that know me but superficially, think less of me than I do of my self; those of my neer acquaintance think more; God, who truly knows me, knows that I am nothing; for he only beholds me and all the world; who looks not on us through a derived ray, or a trajection of a sensible species, but beholds the substance without the helps of
accidents, and the forms of things, as we their operations. Further, no man can judge another, because no man knows himself; for we censure others but as they disagree from that humour which we fancy laudible in our selves, and commend others but for that wherein they seem to quadrate and consent with us. So that in conclusion, all is but that we all condemn, Self-love. 'Tis the general complaint of these times, and perhaps of those past, that charity grows cold; which I perceive most verified in those which most do manifest the fires and flames of zeal; for it is a virtue that best agrees with coldest natures, and such as are complexioned for humility. But how shall we expect Charity towards others, when we are uncharitable to our selves? Charity begins at home, is the voice of the World; yet is every man his greatest enemy, and as it were, his own Executioner. *Non occides*, is the Commandment of God, yet scarce observed by any man; for I perceive every man is his own *Atropos*, and lends a hand to cut the thred of his own days. *Cain* was not therefore the first Murtherer, but *Adam*, who brought in death; whereof he beheld the practice and example in his own son *Abel*, and saw that verified in the experience of another, which faith could not perswade him in the Theory of himself.

**SECT. 5**

There is, I think, no man that apprehends his own miseries less than my self, and no man that so neerly apprehends anothers. I could lose an arm without a tear, and with few groans, methinks, be quartered into pieces; yet can I weep most seriously at a Play, and receive with true passion, the counterfeit grief of those known and professed Impostures. It is a barbarous part of inhumanity to add
unto any afflicted parties misery, or indeavour to multiply in any man, a passion, whose single nature is already above his patience: this was the greatest afflic-
tion of Job; and those oblique expostulations of his Friends, a deeper injury than the down-right blows of
the Devil. It is not the tears of our own eyes only, but of our friends also, that do exhaust the current of
our sorrows; which falling into many streams, runs more peaceably, and is contented with a narrower
channel. It is an act within the power of charity, to translate a passion out of one brest into another, and
to divide a sorrow almost out of it self; for an afflic-
tion, like a dimension, may be so divided, as if not indivisible, at least to become insensible. Now with
my friend I desire not to share or participate, but to engross, his sorrows; that by making them mine own,
I may more easily discuss them; for in mine own reason, and within my self, I can command that, which
I cannot intreat without my self, and within the circle of another. I have often thought those noble pairs
and examples of friendship not so truly Histories of what had been, as fictions of what should be; but I
now perceive nothing in them but possibilities, nor any thing in the Heroick examples of Damon and
Pythias, Achilles and Patroclus, which methinks upon some grounds I could not perform within the narrow
compass of my self. That a man should lay down his life for his Friend, seems strange to vulgar affections,
and such as confine themselves within that Worldly principle, Charity begins at home. For mine own
part I could never remember the relations that I held unto my self, nor the respect that I owe unto my own
nature, in the cause of God, my Country, and my Friends. Next to these three I do embrace my self:
I confess I do not observe that order that the Schools ordain our affections, to love our Parents, Wives, Children, and then our Friends; for excepting the injunctions of Religion, I do not find in myself such a necessary and indissoluble Sympathy to all those of my blood. I hope I do not break the fifth Commandment, if I conceive I may love my friend before the nearest of my blood, even those to whom I owe the principles of life: I never yet cast a true affection on a woman, but I have loved my friend as I do virtue, my soul, my God. From hence me thinks I do conceive how God loves man, what happiness there is in the love of God. Omitting all other, there are three most mystical unions, two natures in one person; three persons in one nature; one soul in two bodies. For though indeed they be really divided, yet are they so united, as they seem but one, and make rather a duality than two distinct souls.

There are wonders in true affection; it is a body of Enigma's, mysteries, and riddles; wherein two so become one, as they both become two: I love my friend before myself, and yet methinks I do not love him enough: some few months hence, my multiplied affection will make me believe I have not loved him at all: when I am from him, I am dead till I be with him; when I am with him, I am not satisfied, but would still be nearer him. United souls are not satisfied with imbraces, but desire to be truly each other; which being impossible, their desires are infinite, and must proceed without a possibility of satisfaction. Another misery there is in affection, that whom we truly love like our own, we forget their looks, nor can our memory retain the Idea of
their faces; and it is no wonder, for they are our selves, and our affection makes their looks our own. This noble affection falls not on vulgar and common constitutions, but on such as are mark'd for virtue: he that can love his friend with this noble ardour, will in a competent degree affect all. Now if we can bring our affections to look beyond the body, and cast an eye upon the soul, we have found out the true object, not only of friendship, but Charity; and the greatest happiness that we can bequeath the soul, is that wherein we all do place our last felicity, Salvation; which though it be not in our power to bestow, it is in our charity and pious invocations to desire, if not procure and further. I cannot contentedly frame a prayer for my self in particular, without a catalogue for my friends; nor request a happiness wherein my sociable disposition doth not desire the fellowship of my neighbour. I never hear the Toll of a passing Bell, though in my mirth, without my prayers and best wishes for the departing spirit: I cannot go to cure the body of my patient, but I forget my profession, and call unto God for his soul: I cannot see one say his prayers, but in stead of imitating him, I fall into a supplication for him, who perhaps is no more to me than a common nature: and if God hath vouchsafed an ear to my supplications, there are surely many happy that never saw me, and enjoy the blessing of mine unknown devotions. To pray for Enemies, that is, for their salvation, is no harsh precept, but the practice of our daily and ordinary devotions. I cannot believe the story of the Italian: our bad wishes and uncharitable desires proceed no further than this life; it is the Devil, and the uncharitable votes of Hell, that desire our misery in the World to come.
To do no injury, nor take none, was a principle, which to my former years, and impatient affections, seemed to contain enough of Morality; but my more settled years, and Christian constitution, have fallen upon severer resolutions. I can hold there is no such thing as injury; that if there be, there is no such injury as revenge, and no such revenge as the contempt of an injury: that to hate another, is to malign himself; that the truest way to love another, is to despise our selves. I were unjust unto mine own Conscience, if I should say I am at variance with any thing like my self. I find there are many pieces in this one fabricck of man; this frame is raised upon a mass of Antipathies: I am one methinks, but as the World; wherein notwithstanding there are a swarm of distinct essences, and in them another World of contrarieties; we carry private and domestick enemies within, publick and more hostile adversaries without. The Devil, that did but buffet St. Paul, plays methinks at sharp with me. Let me be nothing, if within the compass of my self I do not find the battail of Lepanto, Passion against Reason, Reason against Faith, Faith against the Devil, and my Conscience against all. There is another man within me, that’s angry with me, rebukes, commands, and dastards me. I have no Conscience of Marble, to resist the hammer of more heavy offences; nor yet too soft and waxen, as to take the impression of each single peccadillo or scape of infirmity: I am of a strange belief, that it is as easie to be forgiven some sins, as to commit some others. For my Original sin, I hold it to be washed away in my Baptism, for my actual transgressions, I compute and reckon with God, but from my
last repentance, Sacrament, or general absolution; and therefore am not terrified with the sins or madness of my youth. I thank the goodness of God, I have no sins that want a name; I am not singular in offences; my transgressions are Epidemical, and from the common breath of our corruption. For there are certain tempers of body, which matcht with an humorous depravity of mind, do hatch and produce vitiosities, whose newness and monstrosity of nature admits no name; this was the temper of that Lecher that fell in love with a Statua, and constitution of Nero in his Spintrian recreations. For the Heavens are not only fruitful in new and unheard-of stars, the Earth in plants and animals; but mens minds also in villany and vices: now the dulness of my reason, and the vulgarity of my disposition, never prompted my invention, nor sollicited my affection unto any of those; yet even those common and quotidian infirmities that so necessarily attend me, and do seem to be my very nature, have so dejected me, so broken the estimation that I should have otherwise of my self, that I repute my self the most abjectest piece of mortality. Divines prescribe a fit of sorrow to repentance; there goes indignation, anger, sorrow, hatred, into mine; passions of a contrary nature, which neither seem to sute with this action, nor my proper constitution. It is no breach of charity to our selves, to be at vari- ance with our Vices; nor to abhor that part of us, which is an enemy to the ground of charity, our God; wherein we do but imitate our great selves the world, whose divided Antipathies and contrary faces do yet carry a charitable regard unto the whole by their particular discords, preserving the common harmony, and keeping in fetters those powers,
whose rebellions once Masters, might be the ruine of all.

SECT. 8

THANK God, amongst those millions of Vices I do inherit and hold from Adam, I have escaped one, and that a mortal enemy to Charity, the first and father-sin*, not onely of man, but of the devil, Pride; a vice whose name is comprehended in a Mono-syllable, but in its nature not circumscribed with a World. I have escaped it in a condition that can hardly avoid it. Those petty acquisitions and reputed perfections that advance and elevate the conceits of other men, add no feathers unto mine. I have seen a Grammariian towr and plume himself over a single line in Horace, and shew more pride in the construction of one Ode, than the Author in the composure of the whole book. For my own part, besides the Jargon and Patois of several Provinces, I understand no less than six Languages; yet I protest I have no higher conceit of my self, than had our Fathers before the confusion of Babel, when there was but one Language in the World, and none to boast himself either Linguist or Critick. I have not onely seen several Countries, beheld the nature of their Climes, the Chorography of their Provinces, Topography of their Cities, but understood their several Laws, Customs, and Policies; yet cannot all this perswade the dulness of my spirit unto such an opinion of my self, as I behold in nimbler and conceited heads, that never looked a degree beyond their Nests. I know the names, and somewhat more, of all the constellations in my Horizon; yet I have seen a prating Mariner, that could onely name the pointers and the North Star, out-talk me, and conceit

* Farther-sin, 1682.
himself a whole Sphere above me. I know most of the Plants of my Countrey, and of those about me; yet methinks I do not know so many as when I did but know a hundred, and had scarcely ever Simpled further than *Cheap-side*. For indeed, heads of capacity, and such as are not full with a handful, or easie measure of knowledge, think they know nothing, till they know all; which being impossible, they fall upon the opinion of *Socrates*, and only know they know not any thing. I cannot think that *Homer* pin’d away upon the riddle of the fishermen; or that *Aristotle*, who understood the uncertainty of knowledge, and confessed so often the reason of man too weak for the works of nature, did ever drown himself upon the flux and reflux of *Euripus*. We do but learn to-day, what our better advanced judgements will unteach to-morrow; and *Aristotle* doth but instruct us, as *Plato* did him; that is, to confute himself. I have run through all sorts, yet find no rest in any: though our first studies and *junior* endeavours may style us Peripateticks, Stoicks, or Academicks, yet I perceive the wisest heads prove, at last, almost all Scepticks, and stand like *Janus* in the field of knowledge. I have therefore one common and authentick Philosophy I learned in the Schools, whereby I discourse and satisfie the reason of other men; another more reserved, and drawn from experience, whereby I content mine own. *Solomon*, that complained of ignorance in the height of knowledge, hath not only humbled my conceits, but discouraged my endeavours. There is yet another conceit that hath sometimes made me shut my books, which tells me it is a vanity to waste our days in the blind pursuit of knowledge; it is but attending a little longer, and we shall enjoy that by instinct and infusion,
which we endeavour at here by labour and inquisition. It is better to sit down in a modest ignorance, and rest contented with the natural blessing of our own reasons, than buy the uncertain knowledge of this life, with sweat and vexation, which Death gives every fool gratis, and is an accessory of our glorification.

I was never yet once, and commend their resolutions who never marry twice: not that I disallow of second marriage; as neither in all cases, of Polygamy, which considering some times, and the unequal number of both sexes, may be also necessary. The whole World was made for man, but the twelfth part of man for woman: Man is the whole World, and the Breath of God; Woman the Rib and crooked piece of man. I could be content that we might procreate like trees, without conjunction, or that there were any way to perpetuate the World without this trivial and vulgar way of coition; it is the foolishest act a wise man commits in all his life; nor is there any thing that will more deject his cool’d imagination, when he shall consider what an odd and unworthy piece of folly he hath committed. I speak not in prejudice, nor am averse from that sweet Sex, but naturally amorous of all that is beautiful; I can look a whole day with delight upon a handsome Picture, though it be but of an Horse. It is my temper, and I like it the better, to affect all harmony; and sure there is musick even in the beauty, and the silent note which Cupid strikes, far sweeter than the sound of an instrument. For there is a musick where ever there is a harmony, order or proportion; and thus far we may maintain the musick of the Sphears: for those well-ordered motions, and regular paces, though they give no sound unto the
ear, yet to the understanding they strike a note most full of harmony. Whosoever is harmonically composed, delights in harmony; which makes me much distrust the symmetry of those heads which declaim against all Church-Musick. For my self, not only from my obedience, but my particular Genius, I do embrace it: for even that vulgar and Tavern-Musick, which makes one man merry, another mad, strikes in me a deep fit of devotion, and a profound contemplation of the first Composer. There is something in it of Divinity more than the ear discovers: it is an Hieroglyphical and shadowed lesson of the whole World, and creatures of God; such a melody to the ear, as the whole World well understood, would afford the understanding. In brief, it is a sensible fit of that harmony, which intellectually sounds in the ears of God. I will not say with Plato, the soul is an harmony, but harmonical, and hath its nearest sympathy unto Musick: thus some whose temper of body agrees, and humours the constitution of their souls, are born Poets, though indeed all are naturally inclined unto Rhytymne.  

1 This made Tacitus in the very first line of his Story, fall upon a verse, and Cicero the worst of Poets, but declaiming for a Poet, falls in the very first sentence upon a perfect Hexameter. I feel not in me those sordid and unchristian desires of my profession; I do not secretly implore and wish for Plagues, rejoice at Famines, revolve Ephemerides and Almanacks, in expectation of malignant Aspects, fatal Conjunctions, and Eclipses: I rejoicé not at unwholesome Springs, nor unseasonable Winters; my Prayer goes with the Husbandman’s; I desire every thing in its proper season, that neither men nor the times be put out of temper. Let me be sick my self, if sometimes the
malady of my patient be not a disease unto me; I desire rather to cure his infirmities than my own necessities: where I do him no good, methinks it is scarce honest gain; though I confess 'tis but the worthy salary of our well-intended endeavours. I am not only ashamed, but heartily sorry, that besides death, there are diseases incurable; yet not for my own sake, or that they be beyond my Art, but for the general cause and sake of humanity, whose common cause I apprehend as mine own. And to speak more generally, those three Noble Professions which all civil Commonwealths do honour, are raised upon the fall of Adam, and are not exempt from their infirmities; there are not only diseases incurable in Physick, but cases indissolvable in Laws, Vices incorrigible in Divinity: if general Councils may err, I do not see why particular Courts should be infallible; their perfectest rules are raised upon the erroneous reasons of Man; and the Laws of one, do but condemn the rules of another; as Aristotle oft-times the opinions of his Predecessours, because, though agreeable to reason, yet were not consonant to his own rules, and Logick of his proper Principles. Again, to speak nothing of the Sin against the Holy Ghost, whose cure not onely, but whose nature is unknown; I can cure the Gout or Stone in some, sooner than Divinity Pride or Avarice in others. I can cure Vices by Physick, when they remain incurable by Divinity; and shall obey my Pills, when they contemn their precepts. I boast nothing, but plainly say, we all labour against our own cure; for death is the cure of all diseases. There is no Catholicon or universal remedy I know but this, which, though nauseous to queasie stomachs, yet to prepared appetites is Nectar, and a pleasant potion of immortality.
For my Conversation, it is like the Sun's with all men, and with a friendly aspect to good and bad. Methinks there is no man bad, and the worst, best; that is, while they are kept within the circle of those qualities, wherein they are good; there is no man's mind of such discordant and jarring a temper, to which a tunable disposition may not strike a harmony. Magnae virtutes, nec minora vitia; it is the posie of the best natures, and may be inverted on the worst; there are in the most depraved and venemous dispositions, certain pieces that remain untoucht, which by an Antiperistasis become more excellent, or by the excellency of their antipathies are able to preserve themselves from the contagion of their enemy vices, and persist intire beyond the general corruption. For it is also thus in nature. The greatest Balsomes do lie enveloped in the bodies of most powerful Corrosives; I say moreover, and I ground upon experience, that poisons contain within themselves their own Antidote, and that which preserves them from the venome of themselves, without which they were not deleterious to others onely, but to themselves also. But it is the corruption that I fear within me, not the contagion of commerce without me. 'Tis that unruly regiment within me, that will destroy me; 'tis I that do infect myself; the man without a Navel yet lives in me; I feel that original canker corrode and devour me; and therefore Defenda me Dios de me, Lord deliver me from myself, is a part of my Letany, and the first voice of my retired imaginations. There is no man alone, because every man is a Microcosm, and carries the whole World about him; Nunquam minus solus quàm cum solus, though it be the Apothegme of a wise man, is yet true in the mouth of a fool; indeed, though
in a Wilderness, a man is never alone, not only because he is with himself and his own thoughts, but because he is with the Devil, who ever consorts with our solitude, and is that unruly rebel that musters up those disordered motions which accompany our sequestred imaginations. And to speak more narrowly, there is no such thing as solitude, nor any thing that can be said to be alone and by itself, but God, who is his own circle, and can subsist by himself; all others, besides their dissimilary and Heterogeneous parts, which in a manner multiply their natures, cannot subsist without the concourse of God, and the society of that hand which doth uphold their natures. In brief, there can be nothing truly alone and by it self, which is not truly one; and such is only God: All others do transcend an unity, and so by consequence are many.

NOW for my life, it is a miracle of thirty years, which to relate, were not a History, but a piece of Poetry, and would sound to common ears like a Fable; for the World, I count it not an Inn, but an Hospital; and a place not to live, but to dye in. The world that I regard is my self; it is the Microcosm of my own frame that I cast mine eye on; for the other, I use it but like my Globe, and turn it round sometimes for my recreation. Men that look upon my outside, perusing only my condition and Fortunes, do err in my Altitude, for I am above Atlas his shoulders. The earth is a point not only in respect of the Heavens above us, but of that heavenly and celestial part within us: that mass of Flesh that circumscribes me, limits not my mind: that surface that tells the Heavens it hath an end, cannot persuade me I have any: I take my circle to be above three hundred and sixty; though
the number of the Ark do measure my body, it comprehendeth not my mind: whilst I study to find how I am a Microcosm, or little World, I find my self something more than the great. There is surely a piece of Divinity in us, something that was before the Elements, and owes no homage unto the Sun. Nature tells me I am the Image of God, as well as Scripture: he that understands not thus much, hath not his introduction or first lesson, and is yet to begin the Alphabet of man. Let me not injure the felicity of others, if I say I am as happy as any: *Ruut coelum, Fiat voluntas tua*, salveth all; so that whatsoever happens, it is but what our daily prayers desire. In brief, I am content, and what should providence add more? Surely this is it we call Happiness, and this do I enjoy; with this I am happy in a dream, and as content to enjoy a happiness in a fancy, as others in a more apparent truth and reality. There is surely a neerer apprehension of any thing that delights us in our dreams, than in our waked senses; without this I were unhappy: for my awaked judgment discontents me, ever whispering unto me, that I am from my friend; but my friendly dreams in night requite me, and make me think I am within his arms. I thank God for my happy dreams, as I do for my good rest, for there is a satisfaction in them unto reasonable desires, and such as can be content with a fit of happiness. And surely it is not a melancholy conceit to think we are all asleep in this World, and that the conceits of this life are as meer dreams to those of the next, as the Phantasms of the night, to the conceits of the day. There is an equal delusion in both, and the one doth but seem to be the embleme or picture of the other; we are somewhat more than our selves in our sleeps, and the slumber of the body seems
to be but the waking of the soul. It is the ligation of sense, but the liberty of reason, and our waking conceptions do not match the Fancies of our sleeps. At my Nativity, my Ascendant was the watery sign of Scorpius; I was born in the Planetary hour of Saturn, and I think I have a piece of that Lead Planet in me. I am no way facetious, nor disposed for the mirth and galliardize of company; yet in one dream I can compose a whole Comedy, behold the action, apprehend the jests, and laugh my self awake at the conceits thereof: were my memory as faithful as my reason is then fruitful, I would never study but in my dreams; and this time also would I chuse for my devotions: but our grosser memories have then so little hold of our abstracted understandings, that they forget the story, and can only relate to our awaked souls, a confused and broken tale of that that hath passed. Aristotle, who hath written a singular Tract of Sleep, hath not methinks throughly defined it; nor yet Galen, though he seem to have corrected it; for those Noctambuloes and night-walkers, though in their sleep, do yet enjoy the action of their senses: we must therefore say that there is something in us that is not in the jurisdiction of Morpheus; and that those abstracted and ecstatick souls do walk about in their own corps, as spirits with the bodies they assume; wherein they seem to hear, and feel, though indeed the Organs are destitute of sense, and their natures of those faculties that should inform them. Thus it is observed, that men sometimes upon the hour of their departure, do speak and reason above themselves; for then the soul beginning to be freed from the ligaments of the body, begins to reason like her self, and to discourse in a strain above mortality.
We term sleep a death, and yet it is waking that kills us, and destroys those spirits that are the house of life. 'Tis indeed a part of life that best expresseth death; for every man truly lives, so long as he acts his nature, or some way makes good the faculties of himself: Themistocles therefore that slew his Soldier in his sleep, was a merciful Executioner: 'tis a kind of punishment the mildness of no laws hath invented; I wonder the fancy of Lucan and Seneca did not discover it. It is that death by which we may be literally said to dye daily; a death which Adam dyed before his mortality; a death whereby we live a middle and moderating point between life and death; in fine, so like death, I dare not trust it without my prayers, and an half adieu unto the World, and take my farewell in a Colloquy with God.

The night is come, like to the day;
Depart not thou great God away.
Let not my sins, black as the night,
Eclipse the lustre of thy light.
Keep still in my Horizon; for to me
The Sun makes not the day, but thee.
Thou whose nature cannot sleep,
On my temples centry keep;
Guard me 'gainst those watchful foes,
Whose eyes are open while mine close.
Let no dreams my head infest,
But such as Jacob's temples blest.
While I do rest, my Soul advance;
Make my sleep a holy trance.
That I may, my rest being wrought,
Awake into some holy thought;
And with as active vigour run
My course, as doth the nimble Sun.
Sleep is a death; O make me try,
By sleeping, what it is to die:
And as gently lay my head
On my grave, as now my bed.
108 RELIGIO MEDICI

Howere I rest; great God, let me
Awake again at last with thee.
And thus assur'd, behold I lie
Securely, or to awake or die.
These are my drowsie days; in vain
I do now wake to sleep again:
O come that hour, when I shall never
Sleep again, but wake for ever.

This is the Dormative I take to bedward; I need no other Laudanum than this to make me sleep; after which, I close mine eyes in security, content to take my leave of the Sun, and sleep unto the resurrection.

SECT. 13

The method I should use in distributive Justice,
I often observe in commutative; and keep a
Geometrical proportion in both; whereby be-
coming equable to others, I become unjust to my self,
and supererogate in that common principle, Do unto
others as thou wouldst be done unto thy self. I was not
born unto riches, neither is it I think my Star to be
wealthy; or if it were, the freedom of my mind, and
frankness of my disposition, were able to contradict
and cross my fates. For to me avarice seems not so
much a vice, as a deplorable piece of madness; to
conceive ourselves Urinals, or be perswaded that we are
dead, is not so ridiculous, nor so many degrees beyond
the power of Hellebore, as this. The opinion of
Theory, and positions of men, are not so void of
reason as their practised conclusions: some have held
that Snow is black, that the earth moves, that the
Soul is air, fire, water; but all this is Philosophy,
and there is no delirium, if we do but speculate the
folly and indisputable dotage of avarice, to that
subterraneous Idol, and God of the Earth. I do
confess I am an Atheist; I cannot perswade myself to
honour that the World adores; whatsoever virtue its prepared substance may have within my body, it hath no influence nor operation without: I would not entertain a base design, or an action that should call me villain, for the Indies; and for this only do I love and honour my own soul, and have methinks two arms too few to embrace myself. Aristotle is too severe, that will not allow us to be truly liberal without wealth, and the bountiful hand of Fortune; if this be true, I must confess I am charitable only in my liberal intentions, and bountiful well-wishes. But if the example of the Mite be not only an act of wonder, but an example of the noblest Charity, surely poor men may also build Hospitals, and the rich alone have not erected Cathedrals. I have a private method which others observe not; I take the opportunity of my self to do good; I borrow occasion of Charity from mine own necessities, and supply the wants of others, when I am in most need my self; for it is an honest stratagem to make advantage of our selves, and so to husband the acts of vertue, that where they were defective in one circumstance, they may repay their want, and multiply their goodness in another. I have not Peru in my desires, but a competence, and ability to perform those good works to which he hath inclined my nature. He is rich, who hath enough to be charitable; and it is hard to be so poor, that a noble mind may not find a way to this piece of goodness. He that giveth to the poor, lendeth to the Lord; there is more Rhetorick in that one sentence, than in a Library of Sermons; and indeed if those Sentences were understood by the Reader, with the same Emphasis as they are delivered by the Author, we needed not those Volumes of instructions, but might be honest
by an Epitome. Upon this motive only I cannot behold a Beggar without relieving his Necessities with my Purse, or his Soul with my Prayers; these scenical and accidental differences between us, cannot make me forget that common and untoucht part of us both; there is under these Cantoess and miserable outsides, these mutilate and semi-bodies, a soul of the same alloy with our own, whose Genealogy is God as well as ours, and in as fair a way to Salvation as our selves. Statists that labour to contrive a Common-wealth without our poverty, take away the object of charity, not understanding only the Common-wealth of a Christian, but forgetting the prophecie of Christ.

SECT. 14

NOW there is another part of charity, which is the Basis and Pillar of this, and that is the love of God, for whom we love our neighbour; for this I think charity, to love God for himself, and our neighbour for God. All that is truly amiable is God, or as it were a divided piece of him, that retains a reflex or shadow of himself. Nor is it strange that we should place affection on that which is invisible; all that we truly love is thus; what we adore under affection of our senses, deserves not the honour of so pure a title. Thus we adore virtue, though to the eyes of sense she be invisible: thus that part of our noble friends that we love, is not that part that we imbrace, but that insensible part that our arms cannot embrace. God being all goodness, can love nothing but himself, and the traduction of his holy Spirit. Let us call to assize the loves of our parents, the affection of our wives and children, and they are all dumb shows and dreams, without reality, truth or constancy: for first, there is
a strong bond of affection between us and our Parents; yet how easily dissolved? We betake our selves to a woman, forget our mother in a wife, and the womb that bare us, in that that shall bear our Image: this woman blessing us with children, our affection leaves the level it held before, and sinks from our bed unto our issue and picture of Posterity, where affection holds no steady mansion. They, growing up in years, desire our ends; or applying themselves to a woman, take a lawful way to love another better than our selves. Thus I perceive a man may be buried alive, and behold his grave in his own issue.

I CONCLUDE therefore and say, there is no happiness under (or as Copernicus will have it, above) the Sun, nor any Crambe in that repeated verity and burthen of all the wisdom of Solomon, All is vanity and vexation of Spirit. There is no felicity in that the World adores: Aristotle whilst he labours to refute the Idea's of Plato, falls upon one himself: for his summum bonum is a Chimera, and there is no such thing as his Felicity. That wherein God himself is happy, the holy Angels are happy, in whose defect the Devils are unhappy; that dare I call happiness: whatsoever conduceth unto this, may with an easy Metaphor deserve that name: whatsoever else the World terms Happiness, is to me a story out of Pliny, a tale of Boccace or Malizspini; an apparition or neat delusion, wherein there is no more of Happiness, than the name. Bless me in this life with but peace of my Conscience, command of my affections, the love of thy self and my dearest friends, and I shall be happy enough to pity Caesar. These are, O Lord, the humble desires of my
most reasonable ambition, and all I dare call happiness on earth; wherein I set no rule or limit to thy Hand or Providence; dispose of me according to the wisdom of thy pleasure. Thy will be done, though in my own undoing.

FINIS
PSEUDODOXIA EPIDEMICA
OR ENQUIRIES
INTO VERY MANY RECEIVED
TENENTS AND COMMONLY
PRESUMED TRUTHS
TO THE READER

WOULD Truth dispense, we could be content, with Plato, that knowledge were but remembrance; that intellectual acquisition were but reminiscential evocation, and new Impressions but the colouring of old stamps which stood pale in the soul before. For what is worse, knowledge is made by oblivion, and to purchase a clear and warrantable body of Truth, we must forget and part with much we know. Our tender Enquiries taking up Learning at large, and together with true and assured notions, receiving many, wherein our reviewing judgments do find no satisfaction. And therefore in this Encyclopaedia and round of Knowledge, like the great and exemplary Wheels of Heaven, we must observe two Circles: that while we are daily carried about, and whirled on by the swing and rapt of the one, we may maintain a natural and proper course, in the slow and sober wheel of the other. And this we shall more readily perform, if we timely survey our knowledge; impartially singling out those encroachments, which junior compliance and popular credulity hath admitted. Whereof at present we have endeavoured a long and serious Adv iso; proposing not only a large and copious List, but from experience and reason attempting their decisions.

And first we crave exceeding pardon in the audacity
of the Attempt, humbly acknowledging a work of such concernment unto truth, and difficulty in it self, did well deserve the conjunction of many heads. And surely more advantageous had it been unto Truth, to have fallen into the endeavors of some co-operating advancers, that might have performed it to the life, and added authority thereto; which the privacy of our condition, and unequal abilities cannot expect. Whereby notwithstanding we have not been diverted; nor have our solitary attempts been so discouraged, as to dispair the favourable look of Learning upon our single and unsupported endeavours.

Nor have we let fall our Pen, upon discouragement of Contradiction, Unbelief and Difficulty of disswasion from radicated beliefs, and points of high prescription, although we are very sensible, how hardly teaching years do learn, what roots old age contracteth unto errors, and how such as are but acorns in our younger brows, grow Oaks in our elder heads, and become inflexible unto the powerfullest arm of reason. Although we have also beheld, what cold requitals others have found in their several redemptions of Truth; and how their ingenuous Enquiries have been dismissed with censure, and obloquie of singularities.

Some consideration we hope from the course of our Profession, which though it leadeth us into many truths that pass undiscerned by others, yet doth it disturb their Communications, and much interrupt the office of our Pens in their well intended Transmissions. And therefore surely in this work attempts will exceed performances; it being composed by snatches of time, as medical vacations, and the fruitless importunity of Uroscopy would permit us. And therefore also, perhaps it hath not found that regular and constant stile, those infallible
experiments and those assured determinations, which the
subject sometime requireth, and might be expected from
others, whose quiet doors and unmolested hours afford no
such distractions. Although whoever shall indifferently
perpend the exceeding difficulty, which either the obscurity
of the subject, or unavoidable paradoxology must often
put upon the Attemptor, he will easily discern, a work of
this nature is not to be performed upon one legg; and
should smel of oyl, if duly and deservedly handled.

Our first intentions considering the common interest of
Truth, resolved to propose it unto the Latine republique
and equal Judges of Europe, but owing in the first place
this service unto our Country, and therein especially unto
its ingenuous Gentry, we have declared our self in a
language best conceived. Although I confess the quality
of the Subject will sometimes carry us into expressions
beyond meer English apprehensions. And indeed, if
elegancy still proceedeth, and English Pens maintain
that stream, we have of late observed to flow from many;
we shall within few years be fain to learn Latine to
understand English, and a work will prove of equal
facility in either. Nor have we addressed our Pen or
Stile unto the people (whom Books do not redress, and
are this way incapable of reduction), but unto the know-
ing and leading part of Learning. As well under-
standing (at least probably hoping) except they be
watered from higher regions, and fructifying meteors of
Knowledge, these weeds must lose their alimental sap,
and wither of themselves. Whose conserving influence,
could our endeavours prevent; we should trust the rest
unto the sythe of Time, and hopefull dominion of
Truth.

We hope it will not be unconsidered, that we find no
open tract, or constant manuduction in this Labyrinth;
but are oft-times fain to wander in the America and untravelled parts of Truth. For though not many years past, Dr. Primrose hath made a learned Discourse of vulgar Errors in Physick, yet have we discussed but two or three thereof. Scipio Mercurii hath also left an excellent tract in Italian, concerning popular Errors; but confining himself only unto those in Physick, he hath little conduced unto the generality of our doctrine. Laurentius Ioubertus, by the same Title led our expectation into thoughts of great relief; whereby notwithstanding we reaped no advantage; it answering scarce at all the promise of the inscription. Nor perhaps (if it were yet extant) should we find any farther Assistance from that ancient piece of Andreas, pretending the same Title. And therefore we are often constrained to stand alone against the strength of opinion, and to meet the Goliah and Giant of Authority, with contemptible pibbles, and feeble arguments, drawn from the scrip and slender stock of our selves. Nor have we indeed scarce named any Author whose name we do not honour; and if detraction could invite us, discretion surely would contain us from any derogatory intention, where highest Pens and friendliest eloquence must fail in commendation. And therefore also we cannot but hope the equitable considerations, and candour of reasonable minds. We cannot expect the frown of Theology herein; nor can they which behold the present state of things, and controversy of points so long received in Divinity, condemn our sober Enquiries in the doubtfull appertinancies of Arts, and Receptaries of Philosophy. Surely Philologers and Critical Discourers, who look beyond the shell and obvious exteriors of things, will not be angry with our narrower explorations. And we cannot doubt, our Brothers in Physick (whose knowledge in Naturals
will lead them into a nearer apprehension of many things delivered) will friendly accept, if not countenance our endeavours. Nor can we conceive it may be unwelcome unto those honoured Worthies, who endeavour the advancement of Learning: as being likely to find a clearer progression, when so many rubs are levelled, and many untruths taken off, which passing as principles with common beliefs, disturb the tranquility of Axioms, which otherwise might be raised. And wise men cannot but know, that arts and learning want this expurgation: and if the course of truth be permitted unto its self, like that of time and uncorrected computations, it cannot escape many errors, which duration still enlargeth.

Lastly, we are not Magisterial in opinions, nor have we Dictator-like obtruded our conceptions; but in the humility of Enquiries or disquisitions, have only proposed them unto more ocular discerners. And therefore opinions are free, and open it is for any to think or declare the contrary. And we shall so far encourage contradiction, as to promise no disturbance, or re-oppose any Pen, that shall fallaciously or captiously refute us; that shall only lay hold of our lapses, single out Digressions, Corollaries, or Ornamental conceptions, to evidence his own in as indifferent truths. And shall only take notice of such, whose experimental and judicious knowledge shall solemnly look upon it; not only to destroy of ours, but to establish of his own; not to traduce or extenuate, but to explain and dilucidate, to add and amplify, according to the laudable custom of the Ancients in their sober promotions of Learning. Unto whom notwithstanding, we shall not contentiously rejoin, or only to justify our own, but to applaud or confirm his maturer assertions; and shall confer what is in us unto his name and honour; Ready to be swallowed in any worthy
enlarger: as having acquired our end, if any way, or under any name we may obtain a work, so much desired, and yet desiderated of Truth.

THOMAS BROWN.

THE POSTSCRIPT

Readers,

To enform you of the Advantages of the present Impression, and disabuse your expectations of any future Enlargements; these are to advertise thee, that this Edition comes forth with very many Explanations, Additions, and Alterations throughout, besides that of one entire Chapter: But that now this Work is compleat and perfect, expect no further Additions.
THE FIRST BOOK
OR GENERAL PART

CHAPTER I

Of the Causes of Common Errors.

THE First and Father-cause of common Error, is,

The common infirmity of Human Nature; of whose deceptible condition, although perhaps there should not need any other eviction, than the frequent Errors we shall our selves commit, even in the express declaration hereof: yet shall we illustrate the same from more infallible constitutions, and persons presumed as far from us in condition, as time, that is, our first and ingenerated forefathers. From whom as we derive our Being, and the several wounds of constitution; so, may we in some manner excuse our infirmities in the depravity of those parts, whose Traductions were pure in them, and their Originals but once removed from God. Who notwithstanding (if posterity may take leave to judge of the fact, as they are assured to suffer in the punishment) were grossly deceived, in their perfection; and so weakly deluded in the clarity of their understanding, that it hath left no small obscurity in ours, How error should gain upon them.

For first, They were deceived by Satan; and that not in an invisible insinuation; but an open and discoverable
apparition, that is, in the form of a Serpent; whereby although there were many occasions of suspition, and such as could not easily escape a weaker circumspection, yet did the unwary apprehension of Eve take no advantage thereof. It hath therefore seemed strange unto some, she should be deluded by a Serpent, or subject her reason to a beast, which God had subjected unto hers. It hath empuzzled the enquiries of others to apprehend, and enforced them unto strange conceptions, to make out, how without fear or doubt she could discourse with such a creature, or hear a Serpent speak, without suspicion of Imposture. The wits of others have been so bold, as to accuse her simplicity, in receiving his Temptation so coldly; and when such specious effects of the Fruit were Promised, as to make them like God; not to desire, at least not to wonder he pursued not that benefit himself. And had it been their own case, would perhaps have replied, If the tast of this Fruit maketh the eaters like Gods, why remainest thou a Beast? If it maketh us but like Gods, we are so already. If thereby our eyes shall be opened hereafter, they are at present quick enough, to discover thy deceit; and we desire them no opener, to behold our own shame. If to know good and evil be our advantage, although we have Free-will unto both, we desire to perform but one; We know 'tis good to obey the commandement of God, but evil if we transgress it.

They were deceived by one another, and in the greatest disadvantage of Delusion, that is, the stronger by the weaker: For Eve presented the Fruit, and Adam received it from her. Thus the Serpent was cunning enough, to begin the deceit in the weaker, and the weaker of strength, sufficient to consummate the fraud in the stronger. Art and fallacy was used unto her; a
naked offer proved sufficient unto him: So his super-
struction was his Ruine, and the fertility of his Sleep
an issue of Death unto him. And although the con-
dition of Sex, and posteriority of Creation, might
somewhat extenuate the Error of the Woman: Yet
was it very strange and inexcusable in the Man; espe-
cially, if as some affirm, he was the wisest of all men
since; or if, as others have conceived, he was not
ignorant of the Fall of the Angels, and had thereby
Example and punishment to deterr him.

They were deceived from themselves, and their own
apprehensions; for Eve either mistook, or traduced the
commandment of God. Of every Tree of the Garden
thou mayest freely eat, but of the Tree of knowledge of
good and evil thou shalt not eat: for in the day thou
eatest thereof, thou shalt surely die. Now Eve upon
the question of the Serpent, returned the Precept in
different terms: You shall not eat of it, neither shall
you touch it, less perhaps you die. In which delivery,
there were no less than two mistakes, or rather addi-
tional mendacities; for the Commandment forbad not
the touch of the Fruit; and positively said, Ye shall
surely die: but she extenuating, replied, ne fortè morti-
amini, lest perhaps ye die. For so in the vulgar transla-
tion it runneth, and so it is expressed in the Thargum
or Paraphrase of Jonathan. And therefore although
it be said, and that very truely, that the Devil was a
lyer from the beginning, yet was the Woman herein
the first express beginner: and falsified twice, before
the reply of Satan. And therefore also, to speak
strictly, the sin of the Fruit was not the first Offence:
They first transgressed the Rule of their own Reason;
and after the Commandment of God.

They were deceived through the Conduct of their
CHAP. I

Senses, and by Temptations from the Object it self; whereby although their intellectuals had not failed in the Theory of truth, yet did the inservient and brutal Faculties controul the suggestion of Reason: Pleasure and Profit already overswaying the instructions of Honesty, and Sensuality perturbing the reasonable commands of Vertue. For so it is delivered in the Text: That when the Woman saw, that the Tree was good for food, and that it was pleasant unto the eye, and a Tree to be desired to make one wise, she took of the fruit thereof and did eat. Now hereby it appeareth, that Eve, before the Fall, was by the same and beaten away of allurements inveigled, whereby her posterity hath been deluded ever since; that is, those three delivered by St. John, The lust of the flesh, the lust of the eye, and the pride of life: Where indeed they seemed as weakly to fail, as their debilitated posterity, ever after. Whereof notwithstanding, some in their imperfection, have resisted more powerful temptations; and in many moralities condemned the facility of their seductions.

Again, they might, for ought we know, be still deceived in the unbelief of their Mortality, even after they had eat of the Fruit: For, Eve observing no immediate execution of the Curse, she delivered the Fruit unto Adam: who, after the tast thereof, perceiving himself still to live, might yet remain in doubt, whether he had incurred Death; which perhaps he did not indubitably believe, until he was after convicted in the visible example of Abel. For he that would not believe the Menace of God at first, it may be doubted whether, before an ocular example, he believed the Curse at last. And therefore they are not without all reason, who have disputed the Fact of Cain: that is, although he purposed to do mischief, whether he
intended to kill his Brother; or designed that, whereof he had not beheld an example in his own kind. There might be somewhat in it, that he would not have done, or desired undone, when he brake forth as desperately, as before he had done uncivilly, My iniquity is greater than can be forgiven me.

Some nicities I confess there are which extenuate, but many more that aggravate this Delusion; which exceeding the bounds of this Discourse, and perhaps our Satisfaction, we shall at present pass over. And therefore whether the Sin of our First Parents were the greatest of any since; whether the transgression of Eve seducing, did not exceed that of Adam seduced; or whether the resistibility of his Reason, did not equivalence the facility of her Seduction; we shall refer it to the Schoolman; Whether there was not in Eve as great injustice in deceiving her husband, as imprudence in being deceived her self; especially, if foretasting the Fruit, her eyes were opened before his, and she knew the effect of it, before he tasted of it; we leave it unto the Moralist. Whether the whole relation be not Allegorical, that is, whether the temptation of the Man by the Woman, be not the seduction of the rational and higher parts by the inferior and feminine faculties; or whether the Tree in the midst of the Garden, were not that part in the Center of the body, in which was afterward the appointment of Circumcision in Males, we leave it unto the Thalmudist.

Whether there were any Policy in the Devil to tempt them before the Conjunction, or whether the Issue before tentation, might in justice have suffered with those after, we leave it unto the Lawyer. Whether Adam foreknew the advent of Christ, or the reparation of his Error by his Saviour; how the execution of the Curse
should have been ordered, if, after Eve had eaten, Adam had yet refused. Whether if they had tasted the Tree of life, before that of Good and Evil, they had yet suffered the curse of Mortality: or whether the efficacy of the one had not over-powered the penalty of the other, we leave it unto God. For he alone can truly determine these, and all things else; Who as he hath proposed the World unto our disputation, so hath he reserved many things unto his own resolution; whose determination we cannot hope from flesh, but must with reverence suspend unto that great Day, whose justice shall either condemn our curiosities, or resolve our disquisitions.

Lastly, Man was not only deceivable in his Integrity, but the Angels of light in all their Clarity. He that said, He would be like the highest did erre, if in some way he conceived himself so already: but in attempting so high an effect from himself, he mis-understood the nature of God, and held a false apprehension of his own; whereby vainly attempting not only insolencies, but impossibilities, he deceived himself as low as Hell. In brief, there is nothing infallible but God, who cannot possibly erre. For things are really true as they correspond unto his conception; and have so much verity as they hold of conformity unto that Intellect, in whose Idea they had their first determinations. And therefore being the Rule, he cannot be Irregular; nor, being Truth it self, conceaveably admit the impossible society of Error.
BEING thus deluded before the Fall, it is no wonder if their conceptions were deceitful, and could scarce speak without an Error after. For, what is very remarkable (and no man that I know hath yet observed) in the relations of Scripture before the Flood, there is but one speech delivered by Man, wherein there is not an erroneous conception; and, strictly examined, most hainously injurious unto truth. The pen of Moses is brief in the account before the Flood, and the speeches recorded are but six. The first is that of Adam, when upon the expostulation of God, he replied; I heard thy voice in the Garden, and because I was naked I hid my self. In which reply, there was included a very gross Mistake, and, if with pertinacity maintained, a high and capital Error. For thinking by this retirement to obscure himself from God, he infringed the omnisciency and essential Ubiquity of his Maker, Who as he created all things, so is he beyond and in them all, not only in power, as under his subjection, or in his presence, as being in his cognition; but in his very Essence, as being the soul of their causalities, and the essential cause of their existencies. Certainly, his posterity at this distance and after so perpetuated an impairment, cannot but condemn the poverty of his conception, that thought to obscure himself from his Creator in the shade of the Garden, who had beheld him before in the darkness of his Chaos, and the great obscurity of Nothing; that thought to fly from God, which could not fly himself;
or imagined that one tree should conceal his nakedness from God's eye, as another had revealed it unto his own. Those tormented Spirits that wish the mountains to cover them, have fallen upon desires of minor absurdity, and chosen ways of less improbable concealment. Though this be also as ridiculous unto reason, as fruitless unto their desires; for he that laid the foundations of the Earth, cannot be excluded the secrecy of the Mountains; nor can there any thing escape the perspicacity of those eyes which were before light, and in whose opticks there is no opacity. This is the consolation of all good men, unto whom his Ubiquity affordeth continual comfort and security: And this is the affliction of Hell, unto whom it affordeth despair, and remediless calamity. For those restless Spirits that fly the face of the Almighty, being deprived the fruition of his eye, would also avoid the extent of his hand; which being impossible, their sufferings are desperate, and their afflictions without evasion; until they can get out of Trismegistus his Circle, that is, to extend their wings above the Universe, and pitch beyond Ubiquity.

The Second is that Speech of Adam unto God; The woman whom thou gavest me to be with me, she gave me of the Tree, and I did eat. This indeed was an unsatisfactory reply, and therein was involved a very impious Error, as implying God the Author of sin, and accusing his Maker of his transgression. As if he had said, If thou hadst not given me a woman, I had not been deceived: Thou promisedst to make her a help, but she hath proved destruction unto me: Had I remained alone, I had not sinned; but thou gavest me a Consort, and so I became seduced. This was a bold and open accusation of God, making the fountain of good, the contriver of evil, and the forbidder of the crime an
abettor of the fact prohibited. Surely, his mercy was
great that did not revenge the impeachment of his
justice; And his goodness to be admired, that it refuted
not his argument in the punishment of his excusation,
and only pursued the first transgression without a
penalty of this the second.

The third was that of Eve; The Serpent beguiled me,
and I did eat. In which reply, there was not only a very
feeble excuse, but an erroneous translating her own
offence upon another; Extenuating her sin from that
which was an aggravation, that is, to excuse the Fact at
all, much more upon the suggestion of a beast, which
was before in the strictest terms prohibited by her
God. For although we now do hope the mercies of
God will consider our degenerated integrities unto
some minoration of our offences; yet had not the sin-
cerity of our first parents so colourable expectations,
unto whom the commandment was but single, and their
integrities best able to resist the motions of its trans-
gression. And therefore so heinous conceptions have
risen hereof, that some have seemed more angry there-
with, than God himself: Being so exasperated with
the offence, as to call in question their salvation, and
to dispute the eternal punishment of their Maker.
Assuredly with better reason may posterity accuse
them than they the Serpent or one another; and the
displeasure of the Pelagians must needs be irreconcilable,
who peremptorily maintaining they can fulfil the whole
Law, will insatisfactorily condemn the non-observation
of one.

The fourth, was that speech of Cain upon the demand
of God, Where is thy brother? and he said, I know not.
In which Negation, beside the open impudence, there
was implied a notable Error; for returning a lie unto
his Maker, and presuming in this manner to put off the
Searcher of hearts, he denied the omnisciency of God,
whereunto there is nothing concealable. The answer of
Satan in the case of Job, had more of truth, wisdom, and
Reverence, this; Whence comest thou Satan? and he said,
From compassing of the Earth. For though an enemy of
God, and hater of all Truth, his wisdom will hardly
permit him to falsifie with the All-mighty. For well
understanding the Omnisciency of his nature, he is not
so ready to deceive himself, as to falsifie unto him whose
cognition is no way deludable. And therefore when in
the tentation of Christ he played upon the fallacy, and
thought to deceive the Author of Truth, the Method
of this proceeding arose from the uncertainty of his
Divinity; whereof had he remained assured, he had
continued silent; nor would his discretion attempt so
unsucceedable a temptation. And so again at the last
day, when our offences shall be drawn into accompt,
the subtilty of that Inquisitor shall not present unto
God a bundle of calumnies or confutable accusations,
but will discreetly offer up unto his Omnisciency, a
true and undeniable list of our transgressions.

The fifth is another reply of Cain upon the denounce-
ment of his curse, My iniquity is greater then can be
forgiven: For so it is expressed in some Translations.
The assertion was not only desperate, but the conceit
erroneous, overthrowing that glorious Attribute of
God, his Mercy, and conceiving the sin of murder un-
pardonable. Which how great soever, is not above
the repentance of man; but far below the mercies of
God, and was (as some conceive) expiated in that
punishment he suffered temporally for it. There are
but two examples of this error in holy Scripture, and
they both for Murder, and both as it were of the same
person; for Christ was mystically slain in Abel, and therefore Cain had some influence on his death as well as Judas; but the sin had a different effect on Cain, from that it had on Judas; and most that since have fallen into it. For they like Judas desire death, and not unfrequently pursue it: Cain on the contrary grew afraid thereof, and obtained a securement from it. Assuredly, if his despair continued, there was punishment enough in life, and Justice sufficient in the mercy of his protection. For the life of the desperate equals the anxieties of death; who in incessant inquietudes but act the life of the damned, and anticipate the desolations of Hell. 'Tis indeed a sin in man, but a punishment only in Devils, who offend not God but afflict themselves, in the appointed despair of his mercies. And as to be without hope is the affliction of the damned, so is it the happiness of the blessed; who having all their expectations present, are not distracted with futurities: So is it also their felicity to have no Faith; for enjoying the beatifical vision, there is nothing unto them inevident; and in the fruition of the object of Faith, they have received the full evacuation of it.

The last speech was that of Lamech, I have slain a man to my wound, and a young man to my hurt: If Cain be avenged seven fold, truly Lamech seventy and seven fold. Now herein there seems to be a very erroneous Illation: from the Indulgence of God unto Cain, concluding an immunity unto himself; that is, a regular protection from a single example, and an exemption from punishment in a fact that naturally deserved it. The Error of this offender was contrary to that of Cain, whom the Rabbins think, was slain by Lamech, Gen. 4, 23.
of it; he by a decollation of all hope annihilated his mercy, this by an immoderancy thereof destroyed his Justice. Though the sin were less, the Error was as great; For as it is untrue, that his mercy will not forgive offenders, or his benignity co-operate to their conversions; So is it also of no less falsity to affirm His justice will not exact account of sinners, or punish such as continue in their transgressions.

Thus may we perceive, how weakly our Fathers did Erre before the Floud, how continually and upon common discourse they fell upon Errors after; it is therefore no wonder we have been erroneous ever since. And being now at greatest distance from the beginning of Error, are almost lost in its dissemination, whose waies are boundless, and confess no circumscription.

CHAPTER III

Of the second cause of Popular Errors; the erroneous disposition of the People.

HAVING thus declared the infallible nature of Man even from his first production, we have beheld the general cause of Error. But as for popular Errors, they are more neerly founded upon an erroneous inclination of the people; as being the most deceptable part of Mankind and ready with open armes to receive the encroachments of Error. Which condition of theirs although deducible from many Grounds, yet shall we evidence it but from a few, and such as most neerly and undeniably declare their natures.

How unequal discerners of truth they are, and
openly exposed unto Error, will first appear from their unqualified intellectuals, unable to umpire the difficulty of its dissensions. For Error, to speak largely, is a false judgment of things, or, an assent unto falsity. Now whether the object whereunto they deliver up their assent be true or false, they are incompetent judges.

For the assured truth of things is derived from the principles of knowledge, and causes which determine their verities. Whereof their uncultivated understandings, scarce holding any theory, they are but bad discerners of verity; and in the numerous track of Error, but casually do hit the point and unity of truth.

Their understanding is so feeble in the discernment of falsities, and averting the Errors of reason, that it submiteth unto the fallacies of sense, and is unable to rectifie the Error of its sensations. Thus the greater part of Mankind having but one eye of Sense and Reason, conceive the Earth far bigger than the Sun, the fixed Stars lesser than the Moon, their figures plain, and their spaces from Earth equidistant. For thus their Sense informeth them, and herein their reason cannot Rectifie them; and therefore hopelessly continuing in mistakes, they live and die in their absurdities; passing their days in perverted apprehensions, and conceptions of the World, derogatory unto God, and the wisdom of the Creation.

Again, being so illiterate in the point of intellect, and their sense so incorrected, they are farther indisposed ever to attain unto truth; as commonly proceeding in those wayes, which have most reference unto sense, and wherein there lyeth most notable and popular delusion.

For being unable to wield the intellectuall arms of
reason, they are fain to betake themselves unto wasters, and the blunter weapons of truth: affecting the gross and sensible ways of Doctrine, and such as will not consist with strict and subtile Reason. Thus unto them a piece of Rhetorick is a sufficient argument of Logick; an Apologue of Esop, beyond a Syllogism in Barbara; parables than propositions, and proverbs more powerful than demonstrations. And therefore are they led rather by Example, than Precept; receiving persuasions from visible inducements, before electual instructions. And therefore also they judge of human actions by the event; for being uncapable of operable circumstances, or rightly to judge the prudentiality of affairs, they only gaze upon the visible success, and therefore condemn or cry up the whole progression. And so from this ground in the Lecture of holy Scripture, their apprehensions are commonly confined unto the literal sense of the Text, from whence have ensued the gross and duller sort of Heresies. For not attaining the deuteroscopy, and second intention of the words, they are fain to omit the Superconsequencies, Coherencies, Figures, or Tropologies; and are not sometime persuaded by fire beyond their literalities. And therefore also things invisible, but into intellectual discernments, to humour the grossness of their comprehensions, have been degraded from their proper forms, and God Himself dishonoured into manual expressions. And so likewise being unprovided, or insufficient for higher speculations, they will always betake themselves unto sensible representations, and can hardly be restrained the dulness of Idolatry: A sin or folly not only derogatory unto God but men; overthrowing their Reason, as well as his Divinity. In brief, a reciprocation, or rather, an inversion of the Creation, making
God one way, as he made us another; that is, after our Image, as he made us after His own.

Moreover, their understanding thus weak in itself, and perverted by sensible delusions, is yet farther impaired by the dominion of their appetite; that is, the irrational and brutal part of the soul, which lording it over the sovereign faculty, interrupts the actions of that noble part, and choaks those tender sparks, which Adam hath left them of reason. And therefore they do not only swarm with Errors, but vices depending thereon. Thus they commonly affect no man any further than he deserts his reason, or complies with their aberrancies. Hence they imbrace not virtue for itself, but its reward; and the argument from pleasure or Utility is far more powerful, than that from virtuous Honesty: which Mahomet and his contrivers well understood, when he set out the felicity of his Heaven, by the contentments of flesh, and the delights of sense, slightly passing over the accomplishment of the Soul, and the beatitude of that part which Earth and visibilities too weakly affect. But the wisdom of our Saviour, and the simplicity of his truth proceeded another way; defying the popular provisions of happiness from sensible expectations; placing his felicity in things removed from sense, and the intellectual enjoyment of God. And therefore the doctrine of the one was never afraid of Universities, or endeavoured the banishment of learning, like the other. And though Galen doth sometimes nibble at Moses, and, beside the Apostate Christian, some Heathens have questioned his Philosophical part, or treaty of the Creation: Yet is there surely no reasonable Pagan, that will not admire the rational and well grounded precepts of Christ; whose life, as it was conformable unto his Doctrine, so
was that unto the highest rules of Reason; and must therefore flourish in the advancement of learning, and the perfection of parts best able to comprehend it.

Again, Their individual imperfections being great, they are moreover enlarged by their aggregation; and being erroneous in their single numbers, once hudled together, they will be Error it self. For being a confusion of knaves and fools, and a farraginous concurrence of all conditions, tempers, sexes, and ages; it is but natural if their determinations be monstrous, and many ways inconsistent with Truth. And therefore wise men have alwaies applauded their own judgment, in the contradiction of that of the people; and their soberest adversaries, have ever afforded them the stile of fools and mad men; and, to speak impartially, their actions have made good these Epithets. Had Orestes been Judge, he would not have acquitted that Lystrian rabble of madness, who, upon a visible miracle, falling into so high a conceit of Paul and Barnabas, that they termed the one Jupiter, the other Mercurius; that they brought Oxen and Garlands, and were hardly restrained from sacrificing unto them; did notwithstanding suddenly after fall upon Paul, and having stoned him drew him for dead out of the City. It might have hazarded the sides of Democritus, had he been present at that tumult of Demetrius; when the people flocking together in great numbers, some crying one thing, and some another, and the assembly was confused, and the most part knew not wherefore they were come together; notwithstanding, all with one voice for the space of two hours cried out, Great is Diana of the Ephesians. It had overcome the patience of Job, as it did the meekness of Moses, and would surely have mastered any, but the longanimity, and lasting sufferance of God; had
they beheld the Mutiny in the wilderness, when, after
ten great Miracles in Egypt, and some in the same
place, they melted down their stolen ear-rings into a
Calf, and monstrosely cried out; *These are thy Gods,
O Israel, that brought thee out of the land of Egypt.* It
much accuseth the impatience of Peter, who could not
endure the staves of the multitude, and is the greatest
example of lenity in our Saviour, when he desired of
God forgiveness unto those, who having one day brought
him into the City in triumph, did presently after, act
all dishonour upon him, and nothing could be heard
but, *Crucifige,* in their Courts. Certainly he that con-
sidereth these things in God's peculiar people will
easily discern how little of truth there is in the ways
of the Multitude; and though sometimes they are
flattered with that *Aphorism,* will hardly believe, The
voice of the people to be the voice of God.

Lastly, being thus divided from truth in themselves,
they are yet farther removed by adventient deception.
For true it is (and I hope I shall not offend their
vulgarities,) if I say, they are daily mocked into Error
by subtler devisors, and have been expressly deluded by
all professions and ages. Thus the *Priests* of Elder
time, have put upon them many incredible conceits,
not only deluding their apprehensions with Ariolation,
South-saying, and such oblique Idolatries, but winning
their credulities unto the literal and down-right adore-
ment of Cats, Lizzards, and Beetles. And thus also in
some Christian Churches, wherein is presumed an irre-
provable truth, if all be true that is suspected, or half
what is related; there have not wanted many strange
deceptions, and some thereof are still confessed by the
name of Pious Frauds. Thus Theudas an Impostor was
able to lead away Four thousand into the Wilderness,
and the delusions of Mahomet almost the fourth part of Mankind. Thus all Heresies, how gross soever, have found a welcome with the people. For thus, many of the Jews were wrought into belief that Herod was the Messias; and David George of Leyden and Arden, were not without a party amongst the people, who maintained the same opinion of themselves almost in our days.

Physitians (many at least that make profession thereof) beside divers less discoverable ways of fraud, have made them believe, there is the book of fate, or the power of Aarons breast-plate, in Urins. And therefore hereunto they have recourse, as unto the Oracle of life, the great determinator of Virginity, Conception, Fertility, and the Inscrutable infirmities of the whole Body. For as though there were a seminality in Urine, or that, like the Seed, it carried with it the Idea of every part, they foolishly conceive, we visibly behold therein the Anatomy of every particle, and can thereby indigitate their Diseases: And running into any demands, expect from us a sudden resolution in things, whereon the Devil of Delphos would demurr; and we know hath taken respite of some days to answer easier questions.

Saltimbancoes, Quacksalvers, and Charlatans, deceive them in lower degrees. Were Esop alive, the Piazza and Pont-Neuf could not but speak their fallacies; mean while there are too many, whose cries cannot conceal their mischief. For their Impostures are full of cruelty, and worse than any other; deluding not only unto pecuniary defraudations, but the irreparable deceit of death.

Astrologers, which pretend to be of Cabala with the Starrs (such I mean as abuse that worthy Enquiry)
have not been wanting in their deceptions; who having
won their belief unto principles whereof they make
great doubt themselves, have made them believe that
arbitrary events below, have necessary causes, above;
whereupon their credulities assent unto any Prognos-
ticks; and daily swallow the Predictions of men, which,
considering the independency of their causes, and con-
tigency in their Events, are only in the prescience
of God.

Fortune-tellers, Juglers, Geomancers, and the like
incantory Impostors, though commonly men of Inferiour
rank, and from whom without Illumination they can
expect no more than from themselves, do daily and
professedly delude them. Unto whom (what is deplor-
able in Men and Christians) too many applying them-
selves, betwixt jest and earnest, betray the cause of
Truth, and sensibly make up the legionary body of Error.

Statists and Politicians, unto whom Ragione di Stato,
is the first Considerable, as though it were their busi-
ness to deceive the people, as a Maxim, do hold, that
truth is to be concealed from them; unto whom
although they reveal the visible design, yet do they
commonly conceal the capital intention. And there-
fore have they ever been the instruments of great
designes, yet seldom understood the true intention of
any, accomplishing the drifts of wiser heads, as inani-
mate and ignorant Agents, the general design of the
World; who though in some Latitude of sense, and in
a natural cognition perform their proper actions, yet
do they unknowingly concurr unto higher ends, and
blindly advance the great intention of Nature. Now
how far they may be kept in ignorance a greater ex-
ample there is in the people of Rome; who never knew
the true and proper name of their own City. For,
beside that common appellation received by the
Citizens, it had a proper and secret name concealed
from them: *Cujus alterum nomen discere secretis Cer-
emoniarum nefas habetur*, saith Plinie; lest the name
thereof being discovered unto their enemies, their
*Penates* and Patronal God might be called forth by
charms and incantations. For according unto the
tradition of Magitians, the tutelary Spirits will not
remove at common appellations, but at the proper
names of things whereunto they are Protectors.

Thus having been deceived by themselves, and con-
tinually deluded by others, they must needs be stuffed
with Errors, and even over-run with these inferiour
falsities; whereunto whosoever shall resign their
reasons, either from the Root of deceit in themselves,
or inability to resist such trivial deceptions from others,
although their condition and fortunes may place them
many Spheres above the multitude; yet are they still
within the line of Vulgarity, and Democratical enemies
of truth.

**CHAPTER IV**

Of the nearer and more Immediate Causes of
popular Errors, both in the wiser and
common sort, Misapprehension, Fallacy,
or false Deduction, Credulity, Supinity,
Adherence unto Antiquity, Tradition and
Authority.

*T*he first is a mistake, or a misconception of
things, either in their first apprehensions,
or secondary relations. So *Eve* mistook the
Commandment, either from the immediate injunction
of God, or from the secondary narration of her Husband. So might the Disciples mistake our Saviour, in his answer unto Peter concerning the death of John, as is delivered, John 21. Peter seeing John, said unto Jesus, Lord, and what shall this man do? Jesus saith, If I will, that he tarry till I come, what is that unto thee? Then went this saying abroad among the brethren, that that Disciple should not die. Thus began the conceit and opinion of the Centaures: that is, in the mistake of the first beholders, as is declared by Servius; when some young Thessalians on horseback were beheld afar off, while their horses watered, that is, while their heads were depressed, they were conceived by the first Spectators, to be but one animal; and answerable hereunto have their pictures been drawn ever since.

And, as simple mistakes commonly beget fallacies, so men rest not in false apprehensions, without absurd and inconsequent deductions; from fallacious foundations, and misapprehended mediums, erecting conclusions no way inferrible from their premises. Now the fallacies whereby men deceive others, and are deceived themselves, the Ancients have divided into Verbal and Real. Of the Verbal, and such as conclude from mistakes of the Word, although there be no less than six, yet are there but two thereof worthy our notation, and unto which the rest may be referred; that is the fallacy of Equivocation and Amphibology which conclude from the ambiguity of some one word, or the ambiguous Syntaxis of many put together. From this fallacy arose that calamitous Error of the Jews, misapprehending the Prophesies of their Messias, and expounding them always unto literal and temporal expectations. By this way many Errors crept in and perverted the
Doctrine of *Pythagoras*, whilst men received his Precepts in a different sense from his intention; converting Metaphors into proprieties, and receiving as literal expressions, obscure and involved truths. Thus when he enjoyned his Disciples, an abstinence from Beans, many conceived they were with severity debarred the use of that pulse; which notwithstanding could not be his meaning; for as *Aristoxenus*, who wrote his life averreth, he delighted much in that kind of food himself. But herein, as *Plutarch* observeth, he had no other intention than to dissuade men from Magistracy, or undertaking the publick offices of state; for by beans was the Magistrate elected in some parts of *Greece*; and, after his daies, we read in *Thucydides*, of the Council of the bean in *Athens*. The same word also in Greek doth signifie a Testicyle, and hath been thought by some an injunction only of Continency, as *Aul. Gellius* hath expounded, and as *Empedocles* may also be interpreted: that is, *Testiculis miseris dextras subducite*; and might be the original intention of *Pythagoras*; as having a notable hint hereof in Beans, from the natural signature of the venereal organs of both Sexes. Again, his injunction is, not to harbour Swallows in our Houses: Whose advice notwithstanding we do not contemn, who daily admit and cherish them: For herein a caution is only implied, not to entertain ungrateful and thankless persons, which like the Swallow are no way commodious unto us; but having made use of our habitations, and served their own turns, forsake us. So he commands to deface the Print of a Cauldron in the ashes, after it hath boiled. Which strictly to observe were condemnable superstition: But hereby he covertly adviseth us not to persevere in anger; but after our choler hath boiled,
to retain no impression thereof. In the like sense are to be received, when he adviseth his Disciples to give the right hand but to few, to put no viands in a Chamber-pot, not to pass over a Balance, not to rake up fire with a Sword, or piss against the Sun. Which enigmatical deliveries comprehend useful verities, but being mistaken by literal Expositors at the first, they have been mis-understood by most since, and may be occasion of Error to Verbal capacities for ever.

This fallacy in the first delusion Satan put upon Eve, and his whole tentation might be the same continued; so when he said, *Ye shall not die*, that was, in his equivocation, *ye shall not incur a present death*, or a destruction immediately ensuing your transgression. *Your eyes shall be opened*; that is, not to the enlargement of your knowledge, but discovery of your shame and proper confusion; *You shall know good and evil*; that is, you shall have knowledge of good by its privation, but cognisance of evil by sense and visible experience. And the same fallacy or way of deceit, so well succeeding in Paradise, he continued in his Oracles through all the World. Which had not men more warily understood, they might have performed many acts inconsistent with his intention. *Brutus* might have made haste with *Tarquine* to have kissed his own Mother. The *Athenians* might have built them wooden Walls, or doubled the Altar at *Delphos*.

The circle of this fallacy is very large; and herein may be comprised all Ironical mistakes, for intended expressions receiving inverted significations; all deductions from Metaphors, Parables, Allegories, unto real and rigid interpretations. Whereby have risen not only popular Errors in Philosophy, but vulgar and senseless Heresies in Divinity; as will be evident unto
any that shall examine their foundations, as they stand related by Epiphanius, Austin, or Prateolus.

Other ways there are of deceit; which consist not in false apprehension of Words, that is, Verbal expressions or sentential significations, but fraudulent deductions, or inconsequent illations, from a false conception of things. Of these extradictionary and real fallacies, Aristotle and Logicians make in number six, but we observe that men are most commonly deceived by four thereof: those are, Petitio principii, A dicto secundum quid ad dictum simpliciter, A non causa pro causa; And, fallacia consequentis.

The first is, Petitio principii. Which fallacy is committed, when a question is made a medium, or we assume a medium as granted, whereof we remain as unsatisfied as of the question. Briefly, where that is assumed as a Principle to prove another thing, which is not conceded as true itself. By this fallacy was Eve deceived, when she took for granted, a false assertion of the Devil; Ye shall not surely die; for God doth know that in the day ye shall eat thereof, your eyes shall be opened, and you shall be as Gods. Which was but a bare affirmation of Satan, without proof or probable inducement, contrary unto the command of God, and former belief of her self. And this was the Logick of the Jews when they accused our Saviour unto Pilate; who demanding a reasonable impeachment, or the allegation of some crime worthy of Condemnation; they only replied, If he had not been worthy of Death, we would not have brought Him before thee. Wherein there was neither accusation of the person, nor satisfaction of the Judge; who well understood, a bare accusation was not presumption of guilt, and the clamours of the people no accusation at all. The same
Fallacy is sometime used in the dispute, between Job and his friends; they often taking that for granted which afterward he disproveth.

The second is, A dicto secundum quid ad dictum simpliciter, when from that which is but true in a qualified sense, an unconditional and absolute verity is inferred; transferring the special consideration of things unto their general acceptions, or concluding from their strict acception, unto that without all limitation. This fallacy men commit when they argue from a particular to a general; as when we conclude the vices or qualities of a few, upon a whole Nation. Or from a part unto the whole. Thus the Devil argues with our Saviour: and by this, he would perswade Him he might be secure, if he cast himself from the Pinnacle: For, said he, it is written, He shall give his Angels charge concerning thee, and in their hands they shall bear thee up, lest at any time thou dash thy foot against a stone. But this illation was fallacious, leaving one part of the Text, He shall keep thee in all thy wayes; that is, in the ways of righteousness, and not of rash attempts: so he urged a part for the whole, and inferred more in the conclusion, than was contained in the premises. By the same fallacy we proceed, when we conclude from the sign unto the thing signified. By this incroachment, Idolatry first crept in, men converting the symbolical use of Idols into their proper Worship, and receiving the representation of things as the substance and thing it self. So the Statue of Belus at first erected in his memory, was in after-times adored as a Divinity. And so also in the Sacrament of the Eucharist, the Bread and Wine which were but the signals or visible signs, were made the things signified, and worshipped as the Body of Christ. And hereby
generally men are deceived that take things spoken in some Latitude without any at all. Hereby the Jews were deceived concerning the commandment of the Sabbath, accusing our Saviour for healing the sick, and his Disciples for plucking the ears of Corn upon that day. And by this deplorable mistake they were deceived unto destruction, upon the assault of Pompey the great, made upon that day; by whose superstitious observation they could not defend themselves, or perform any labour whatever.

The third is, *A non causa pro causa*, when that is pretended for a cause which is not, or not in that sense which is inferred. Upon this consequence the law of Mahomet forbids the use of Wine; and his Successors abolished Universities. By this also many Christians have condemned literature, misunderstanding the counsel of Saint Paul, who adviseth no further than to beware of Philosophy. On this Foundation were built the conclusions of Southsayers in their Augurial, and Tripudiary divinations; collecting presages from voice or food of Birds, and conjoyning Events unto causes of no connection. Hereupon also are grounded the gross mistakes, in the cure of many diseases: not only from the last medicine, and sympathetical Receipts, but Amulets, Charms, and all incantatory applications; deriving effects not only from incurring causes, but things devoid of all efficiency whatever.

The fourth is, the Fallacy of the Consequent; which if strictly taken, may be a fallacious illation in reference unto antecedency, or consequency; as to conclude from the position of the antecedent to the position of the consequent, or from the remotion of the consequent to the remotion of the antecedent. This is usually
committed, when in connexed Propositions the Terms adhere contingently. This is frequent in Oratory illations; and thus the *Pharisees*, because He conversed with Publicans and Sinners, accused the holiness of Christ. But if this Fallacy be largely taken, it is committed in any vicious illation, offending the rules of good consequence; and so it may be very large, and comprehend all false illations against the settled Laws of Logick: But the most usual inconsequencies are from particulars, from negatives, and from affirmative conclusions in the second figure, wherein indeed offences are most frequent, and their discoveries not difficult.

**CHAPTER V**

**Of Credulity and Supinity.**

A **THIRD cause of common Errors is the Credulity of men, that is, an easie assent to what is obtruded, or a believing at first ear, what is delivered by others. This is a weakness in the understanding, without examination assenting unto things, which from their Natures and Causes do carry no persuasian; whereby men often swallow falsities for truths, dubiosities for certainties, feasibilities for possibilities, and things impossible as possibilities themselves. Which, though the weakness of the Intellect, and most discoverable in vulgar heads; yet hath it sometime fallen upon wiser brains, and greater advancers of Truth. Thus many wise *Athenians* so far forgot their Philosophy, and the nature of humane production, that they descended unto belief, that the original of their Nation was from the Earth, and had**
no other beginning than the seminality and womb of their great Mother. Thus is it not without wonder, how those learned Arabicks so tamely delivered up their belief unto the absurdities of the Alcoran. How the noble Geber, Avicenna, and Almanzor, should rest satisfied in the nature and causes of Earthquakes, delivered from the doctrine of their Prophet; that is, from the motion of a great Bull, upon whose horns all the earth is poised. How their faiths could decline so low, as to concede their generations in Heaven, to be made by the smell of a Citron, or that the felicity of their Paradise should consist in a Jubile of copulation, that is, a coition of one act prolonged unto fifty years. Thus is it almost beyond wonder, how the belief of reasonable creatures, should ever submit unto Idolatry: and the credulity of those men scarce credible (without presumption of a second Fall) who could believe a Deity in the work of their own hands. For although in that ancient and diffused adoration of Idols, unto the Priests and subtler heads, the worship perhaps might be symbolical, and as those Images some way related unto their Deities; yet was the Idolatry direct and down-right in the People; whose credulity is illimitable, who may be made believe that any thing is God; and may be made believe there is no God at all.

And as Credulity is the cause of Error, so Incredulity oftentimes of not enjoying truth; and that not only an obstinate incredulity, whereby we will not acknowledge assent unto what is reasonably inferred, but any Academical reservation in matters of easie truth, or rather sceptical infidelity against the evidence of reason and sense. For these are conceptions befalling wise men, as absurd as the apprehensions of fools, and the credulity of the people which promiscuously swallow any thing.
For this is not only derogatory unto the wisdom of God, who hath proposed the World unto our knowledge, and thereby the notion of Himself; but also detractory unto the intellect, and sense of man expressly disposed for that inquisition. And therefore, *hoc tantum scio, quod nihil scio*, is not to be received in an absolute sense, but is comparatively expressed unto the number of things whereof our knowledge is ignorant. Nor will it acquit the insatisfaction of those which quarrel with all things, or dispute of matters, concerning whose verities we have conviction from reason, or decision from the inerrable and requisite conditions of sense. And therefore if any affirm, the earth doth move, and will not believe with us, it standeth still; because he hath probable reasons for it, and I no infallible sense, nor reason against it, I will not quarrel with his assertion. But if, like Zeno, he shall walk about, and yet deny there is any motion in Nature, surely that man was constituted for *Anticera*, and were a fit companion for those, who having a conceit they are dead, cannot be convicted into the society of the living.

The fourth is a Supinity, or neglect of Enquiry, even of matters whereof we doubt; rather believing, than going to see; or doubting with ease and *gratis*, than believing with difficulty or purchase. Whereby, either from a temperamental inactivity, we are unready to put in execution the suggestions or dictates of reason; or by a content and acquiescence in every species of truth, we embrace the shadow thereof, or so much as may palliate its just and substantial acquirements. Had our fore-Fathers sat down in these resolutions, or had their curiosities been sedentary, who pursued the knowledge of things through all the corners of nature, the face of
truth had been obscure unto us, whose lustre in some part their industries have revealed.

Certainly the sweat of their labours was not salt unto them, and they took delight in the dust of their endeavours. For questionless, in Knowledge there is no slender difficulty; and Truth, which wise men say doth lye in a Well, is not recoverable by extantlation. It were some extenuation of the Curse, if in *sudore vultus tui* were confinable unto corporal exercitations, and there still remained a Paradise, or unthorny place of knowledge. But now our understandings being eclipsed, as well as our tempers infirmed, we must betake our selves to wayes of reparation, and depend upon the illumination of our endeavours. For, thus we may in some measure repair our primary ruines, and build our selves Men again. And though the attempts of some have been precipitous, and their Enquiries so audacious, as to come within command of the flaming swords, and lost themselves in attempts above humanity; yet have the Enquiries of most defected by the way, and tired within the sober circumference of Knowledge.

And this is the reason, why some have transcripted any thing; and although they cannot but doubt thereof, yet neither make Experiment by sense, or Enquiry by reason; but live in doubts of things, whose satisfaction is in their own power; which is indeed the inexcusable part of our ignorance, and may perhaps fill up the charge of the last day. For, not obeying the dictates of Reason, and neglecting the cries of Truth, we fail not only in the trust of our undertakings, but in the intention of man it self. Which although more venial in ordinary constitutions, and such as are not framed beyond the capacity of beaten notions, yet will inexcusably condemn some men, who having received excellent
endowments, have yet sate down by the way, and frustrated the intention of their habilities. For certainly, as some men have sinned in the principles of humanity, and must answer, for not being men, so others offend, if they be not more. *Magis extra vitia, quam cum virtutibus,* would commend those: These are not excusable without an Excellency. For, great constitutions, and such as are constellated unto knowledge, do nothing till they out-do all; they come short of themselves, if they go not beyond others; and must not sit down under the degree of Worthies. God expects no lustre from the minor Stars; but if the Sun should not illuminate all, it were a sin in Nature. *Ultimus bonorum,* will not excuse every man, nor is it sufficient for all to hold the common level: Mens names should not only distinguish them: A man should be something, that men are not, and individual in somewhat beside his proper Name. Thus while it exceeds not the bounds of reason and modesty, we cannot condemn singularity. *Nos numerus sumus,* is the Motto of the multitude, and for that reason are they Fools. For things as they recede from unity, the more they approach to imperfection, and Deformity; for they hold their perfection in their Simplicities, and as they nearest approach unto God.

Now as there are many great Wits to be condemned, who have neglected the increment of Arts, and the sedulous pursuit of knowledge; so are there not a few very much to be pitied, whose industry being not attended with natural parts, they have sweat to little purpose, and rolled the stone in vain. Which chiefly proceedeth from natural incapacity, and genial indisposition, at least, to those particulars wherunto they apply their endeavours. And this is one reason why, though Universities be full of men, they are oftentimes
empty of learning: Why, as there are some men do much without learning, so others but little with it, and few that attain to any measure of it. For many heads that undertake it, were never squared, nor timber’d for it. There are not only particular men, but whole Nations indisposed for learning; whereunto is required, not only education, but a pregnant Minerva, and teeming Constitution. For the Wisdom of God hath divided the Genius of men according to the different affairs of the World: and varied their inclination according to the variety of Actions to be performed therein. Which they who consider not, rudely rushing upon professions and ways of life, unequal to their natures; dishonour, not only themselves and their Functions, but pervert the harmony of the whole World. For, if the World went on as God hath ordained it, and were every one employed in points concordant to their Natures, Professions; Arts and Commonwealths would rise up of themselves; nor needed we a Lanthorn to find a man in Athens.

CHAPTER VI

Of adherence unto Antiquity.

BUT the mortallest enemy unto Knowledge, and that which hath done the greatest execution upon truth, hath been a peremptory adhesion unto Authority, and more especially, the establishing of our belief upon the dictates of Antiquity. For (as every capacity may observe) most men of Ages present, so superstitiously do look on Ages past, that the Authorities of the one, exceed the reasons of the other: Whose persons indeed being far removed from
our times, their works, which seldom with us pass uncontroled, either by contemporaries, or immediate successors, are now become out of the distance of Envies: and the farther removed from present times, are conceived to approach the nearer unto truth it self. Now hereby methinks we manifestly delude our selves, and widely walk out of the track of Truth.

For first, Men hereby impose a Thraldom on their Times, which the ingenuity of no Age should endure, or indeed, the presumption of any did ever yet enjoyn. Thus Hippocrates about 2000 years ago, conceived it no injustice, either to examine or refute the Doctrines of his Predecessors: Galen the like, and Aristotle the most of any. Yet did not any of these conceive themselves infallible, or set down their dictates as verities irrefragable, but when they deliver their own Inventions, or reject other mens Opinions, they proceed with Judgment and Ingenuity; establishing their assertion, not only with great solidity, but submitting them also unto the correction of future discovery.

Secondly, Men that adore times past, consider not that those times were once present; that is, as our own are at this instant, and we our selves unto those to come, as they unto us at present, as we relye on them, even so will those on us, and magnifie us hereafter, who at present condemn our selves. Which very absurdity is daily committed amongst us, even in the esteem and censure of our own times. And to speak impartially, old Men, from whom we should expect the greatest example of Wisdom, do most exceed in this point of folly; commending the days of their youth, which they scarce remember, at least well understood not; extolling those times their younger years have heard their Fathers condemn, and condemning those times the
gray heads of their posterity shall commend. And thus is it the humour of many heads, to extol the days of their Fore-fathers, and declaim against the wickedness of times present. Which notwithstanding they cannot handsomly do, without the borrowed help and Satyrs of times past; condemning the vices of their own times, by the expressions of vices in times which they commend; which cannot but argue the community of vice in both. Horace therefore, Juvenal, and Persius were no Prophets, although their lines did seem to indigitate and point at our times. There is a certain list of vices committed in all Ages, and declaimed against by all Authors, which will last as long as humane nature; which digested into common places, may serve for any Theme, and never be out of date until Dooms-day.

Thirdly, The Testimonies of Antiquity and such as pass oraculously amongst us, were not, if we consider them, always so exact, as to examine the doctrine they delivered. For some, and those the acutest of them, have left unto us many things of falsity; controlable, not only by critical and collective reason, but common and Country observation.

Hereof there want not many examples in Aristotle, through all his Book of Animals; we shall instance onely in three of his Problems, and all contained under one Section. The first enquireth, why a Man doth cough, but not an Oxe or Cow; whereas, notwithstanding the contrary is often observed by Husbandmen, and stands confirmed by those who have expressly treated De Re Rustica, and have also delivered divers remedies for it. Why Juments, as Horses, Oxen, and Asses, have no eructation or belching, whereas indeed the contrary is often observed, and also delivered by
Columella. And thirdly, Why Man alone hath gray hairs? whereas it cannot escape the eyes, and ordinary observation of all men, as Horses, Dogs, and Foxes, wax gray with age in our Countries; and in the colder Regions, many other Animals without it. And though favourable constructions may somewhat extenuate the rigour of these concessions, yet will scarce any palliate that in the fourth of his Meteors, that Salt is easiest dissolvable in cold water: Nor that of Dioscorides, that Quicksilver is best preserved in Vessels of Tin and Lead.

Other Authors write often dubiously even in matters wherein is expected a strict and definite truth; extenuating their affirmations, with aiunt, ferunt, fortasse: as Dioscorides, Galen, Aristotle, and many more. Others by hearsay; taking upon trust most they have delivered, whose Volumes are meer Collections, drawn from the mouths or leaves of other Authors; as may be observed in Plinie, Elian, Athenæus, and many more. Not a few transcriptively, subscribing their Names unto other mens endeavours, and meerly transcribing almost all they have written. The Latines transcribing the Greeks, the Greeks and Latines, each other.

Thus hath Justine borrowed all from Trogus Pompeius, and Julius Solinus, in a manner transcribed Plinie. Thus have Lucian and Apuleius served Lucius Pratensis: men both living in the same time, and both transcribing the same Author, in those famous Books, entituled Lucius by the one, and Aureus Asinus by the other. In the same measure hath Simocrates in his Tract De Nilo, dealt with Diodorus Siculus, as may be observed in that work annexed unto Herodotus, and translated by Jungermannus. Thus Eratosthenes wholly translated Timotheus de Insulis, not reserving the very Preface.
The same doth Strabo report of Eudorus, and Ariston, in a Treatise entituled De Nilo. Clemens Alexandrinus hath observed many examples hereof among the Greeks; and Pliny speaketh very plainly in his Preface, that conferring his Authors, and comparing their works together, he generally found those that went before verbatim transcribed, by those that followed after, and their Originals never so much as mentioned. To omit how much the wittiest piece of Ovid is beholde unto Parthenius Chius; even the magnified Virgil hath borrowed, almost in all his Works; his Eclogues from Theocritus, his Georgicks from Hesiod and Aratus, his Æneads from Homer, the second Book whereof containing the exploit of Sinon and the Trojan Horse (as Macrobius observeth) he hath verbatim derived from Pisander. Our own Profession is not excusable herein. Thus Oribasius, Ætius, and Ægineta, have in a manner transcribed Galen. But Marcellus Empericus, who hath left a famous Work De Medicamentis, hath word for word transcribed all Scribonius Largus, De Compositione Medicamentorum, and not left out his very Peroration. Thus may we perceive the Ancients were but men, even like our selves. The practice of transcription in our days, was no Monster in theirs: Plagiarie had not its Nativity with Printing, but began in times when thefts were difficult, and the paucity of Books scarce wanted that Invention.

Nor did they only make large use of other Authors, but often without mention of their names. Aristotle, who seems to have borrowed many things from Hippocrates, in the most favourable construction, makes mention but once of him, and that by the by, and without reference unto his present Doctrine. Virgil, so much beholding unto Homer, hath not his name in all
his Works: and Plinie, who seems to borrow many Authors out of Dioscorides, hath taken no notice of him. I wish men were not still content to plume themselves with others Feathers. Fear of discovery, not single ingenuity affords Quotations rather than Transcriptions; wherein notwithstanding the Plagiari sme of many makes little consideration, whereof though great Authors may complain, small ones cannot but take notice.

Fourthly, While we so eagerly adhere unto Antiquity, and the accounts of elder times, we are to consider the fabulous condition thereof. And that we shall not deny, if we call to mind the Mendacity of Greece, from whom we have received most relations, and that a considerable part of ancient Times, was by the Greeks themselves termed μυθικόν, that is, made up or stuffed out with Fables. And surely the fabulous inclination of those days, was greater then any since; which swarmed so with Fables, and from such slender grounds, took hints for fictions, poysing the World ever after; wherein how far they exceeded, may be exemplified from Palephatus, in his Book of Fabulous Narrations. That Fable of Orpheus who by the melody of his Musick, made Woods and Trees to follow him, was raised upon a slender foundation; for there were a crew of mad women, retired unto a Mountain from whence being pacified by his Musick, they descended with boughs in their hands, which unto the fabulosity of those times proved a sufficient ground to celebrate unto all posterity the Magick of Orpheus Harp, and its power to attract the senseless Trees about it. That Medea the famous Sorceress could renew youth, and make old men young again, was nothing else, but that from the knowledge of Simples she had a Receit to make white hair black,
and reduce old heads, into the tincture of youth again. The Fable of Gerion and Cerberus with three heads, was this: Gerion was of the City Tricarinia, that is, of three heads, and Cerberus of the same place was one of his Dogs, which running into a Cave upon pursuit of his Masters Oxen, Hercules perforce drew him out of that place, from whence the conceits of those days affirmed no less, then that Hercules descended into Hell, and brought up Cerberus into the habitation of the living. Upon the like grounds was raised the figment of Briareus, who dwelling in a City called Hecatonchiria, the fansies of those times assigned him an hundred hands. 'Twas ground enough to fansie wings unto Daedalus, in that he stole out of a Window from Minos, and sailed away with his son Icarus: who steering his course wisely, escaped; but his son carrying too high a sail was drowned. That Niobe weeping over her children, was turned into a Stone, was nothing else, but that during her life she erected over their Sepultures a Marble Tomb of her own. When Acteon had undone himself with Dogs, and the prodigal attendants of hunting, they made a solemn story how he was devoured by his Hounds. And upon the like grounds was raised the Anthropophagie of Diomedes his horses. Upon as slender foundation was built the Fable of the Minotaure; for one Taurus a servant of Minos gat his Mistris Pasiphae with child, from whence the Infant was named Minotaurus. Now this unto the fabulosity of those times was thought sufficient to accuse Pasiphae of Beastiality, or admitting conjunction with a Bull; and in succeeding ages gave a hint of depravity unto Domitian to act the Fable into reality. In like manner, as Diodorus plainly delivereth, the famous Fable of Charon had its Nativity; who being
no other but the common Ferry-man of Egypt, that wafted over the dead bodies from Memphis, was made by the Greeks to be the Ferry-man of Hell, and solemn stories raised after of him. Lastly, we shall not need to enlarge, if that be true which grounded the generation of Castor and Helen out of an Egg, because they were born and brought up in an upper room, according unto the Word ὧν, which with the Lacædonians had also that signification.

Fifthly, We applaud many things delivered by the Ancients, which are in themselves but ordinary, and come short of our own Conceptions. Thus we usually extol, and our Orations cannot escape the sayings of the wise men of Greece. Nosce teipsum, of Thales: Nosce tempus, of Pittacus: Nihil nimis, of Cleobulus; which notwithstanding to speak indifferently, are but vulgar precepts in Morality, carrying with them nothing above the line, or beyond the extemporary sententiosity of common conceits with us. Thus we magnifie the Apothegms or reputed replies of Wisdom, whereof many are to be seen in Laertius, more in Lycosthenes, not a few in the second Book of Macrobius, in the salts of Cicero, Augustus, and the Comical wits of those times: in most whereof there is not much to admire, and are methinks exceeded, not only in the replies of wise men, but the passages of society, and urbanities of our times. And thus we extol their Adages, or Proverbs; and Erasmus hath taken great pains to make collections of them, whereof notwithstanding, the greater part will, I believe, unto indifferent Judges be esteemd no extraordinaries: and may be parallel’d, if not exceeded, by those of more unlearned Nations, and many of our own.

Sixthly, We urge Authorities in points that need
not, and introduce the testimony of ancient Writers, to confirm things evidently believed, and whereto no reasonable hearer but would assent without them; such as are, Nemo mortalium omnibus horis sapit. Virtute nil præstantius, nil pulchrius. Omnia vincit amor. Præclarum quiddam veritas. All which, although things known and vulgar, are frequently urged by many men, and though trivial verities in our mouths, yet, noted from Plato, Ovid, or Cicero, they become reputed elegancies. For many hundred to instance but in one we meet with while we are writing. Antonius Guévara that elegant Spaniard, in his Book entituled, The Dial of Princes, beginneth his Epistle thus. Apolonius Thyaneus, disputing with the Scholars of Hiarchas, said, that among all the affections of nature, nothing was more natural, then the desire all have to preserve life. Which being a confessed Truth, and a verity acknowledged by all, it was a superfluous affectation to derive its Authority from Apolonius, or seek a confirmation thereof as far as India, and the learned Scholars of Hiarchas. Which whether it be not all one to strengthen common Dignities and Principles known by themselves, with the Authority of Mathematicians; or think a man should believe, the whole is greater then its parts, rather upon the Authority of Euclide, then if it were propounded alone; I leave unto the second and wiser cogitations of all men. 'Tis sure a Practice that savours much of Pedantry; a reserve of Puerility we have not shaken off from School; where being seasoned with Minor sentences, by a neglect of higher Enquiries, they prescribe upon our riper ears, and are never worn out but with our Memories.

Lastly, While we so devoutly adhere unto Antiquity in some things, we do not consider we have deserted
them in several others. For they indeed have not only been imperfect, in the conceit of some things, but either ignorant or erroneous in many more. They understood not the motion of the eighth sphere from West to East, and so conceived the longitude of the Stars invariable. They conceived the torrid Zone unhitable, and so made frustrate the goodliest part of the Earth. But we now know 'tis very well empeopled, and the habitation thereof esteemed so happy, that some have made it the proper seat of Paradise; and been so far from judging it unhitable, that they have made it the first habitation of all. Many of the Ancients denied the Antipodes, and some unto the penalty of contrary affirmations; but the experience of our enlarged navigations, can now assert them beyond all dubitation. Having thus totally relinquisht them in some things, it may not be presumptuous, to examine them in others; but surely most unreasonable to adhere to them in all, as though they were infallible, or could not err in any way.

CHAPTER VII
Of Authority.

Nor is onely a resolved prostration unto Antiquity a powerful enemy unto knowledge, but any confident adherence unto Authority, or resignation of our judgements upon the testimony of Age or Author whatsoever.

For first, to speak generally an argument from Authority to wiser examinations, is but a weaker kind of proof; it being but a topical probation, and as we term it, an inartificial argument, depending upon a naked asseveration: wherein neither declaring the causes,
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affections or adjuncts of what we believe, it carrieth not with it the reasonable inducements of knowledge. And therefore, Contra negantem principia, Ipse dixit, or Oportet discentem credere, although Postulates very accommodable unto Junior indoctrinations; yet are their Authorities but temporary, and not to be imbraced beyond the minority of our intellectuals. For our advanced beliefs are not to be built upon dictates, but having received the probable inducements of truth, we become emancipated from testimonial engagements, and are to erect upon the surer base of reason.

Secondly, Unto reasonable perpensions it hath no place in some Sciences, small in others, and suffereth many restrictions, even where it is most admitted. It is of no validity in the Mathematicks, especially the mother part thereof, Arithmetick and Geometry. For these Sciences concluding from dignities and principles known by themselves: receive not satisfaction from probable reasons, much less from bare and peremptory asseverations. And therefore if all Athens should decree, that in every Triangle, two sides, which soever be taken, are greater then the side remaining, or that in rectangle triangles the square which is made of the side that subtendeth the right angle, is equal to the squares which are made of the sides containing the right angle: although there be a certain truth therein, Geometricians notwithstanding would not receive satisfaction without demonstration thereof. 'Tis true, by the vulgarity of Philosophers, there are many points believed without probation; nor if a man affirm from Ptolomy, that the Sun is bigger then the Earth, shall he probably meet with any contradiction: whereunto notwithstanding Astronomers will not assent without some convincing argument or demonstrative proof.
thereof. And therefore certainly of all men a Philosopher should be no swearer; for an oath which is the end of controversies in Law, cannot determine any here; nor are the deepest Sacraments or desperate imprecations of any force to perswade, where reason only, and necessary *mediums* must induce.

In Natural Philosophy more generally pursued amongst us, it carrieth but slender consideration; for that also proceeding from setled Principles, therein is expected a satisfaction from scientifical progressions, and such as beget a sure rational belief. For if Authority might have made out the assertions of Philosophy, we might have held that Snow was black, that the Sea was but the sweat of the Earth, and many of the like absurdities. Then was *Aristotle* injurious to fall upon *Melissus*, to reject the assertions of *Anaxagoras, Anaximander*, and *Empedocles*; then were we also ungrateful unto himself; from whom our *Junior* endeavours embracing many things on his authority, our mature and secondary enquiries, are forced to quit those receptions, and to adhere unto the nearer account of Reason. And although it be not unusual, even in Philosophical Tractates to make enumeration of Authors, yet are there reasons usually introduced, and to ingenious Readers do carry the stroke in the perswasion. And surely if we account it reasonable among our selves, and not injurious unto rational Authors, no farther to abet their Opinions then as they are supported by solid Reasons: certainly with more excusable reservation may we shrink at their bare testimonies; whose argument is but precarious, and subsists upon the charity of our assentments.

In Morality, Rhetorick, Law and History, there is I confess a frequent and allowable use of testimony; and
yet herein I perceive, it is not unlimitable, but admit-
teth many restrictions. Thus in Law both Civil and
Divine: that is onely esteemed a legal testimony, which
receives comprobation from the mouths of at least two
witnesses; and that not only for prevention of calumny,
but assurance against mistake; whereas notwithstanding
the solid reason of one man, is as sufficient as the
clamor of a whole Nation; and with imprejudicate
apprehensions begets as firm a belief as the authority
or aggregated testimony of many hundreds. For reason
being the very root of our natures, and the principles
thereof common unto all, what is against the Laws of
true reason, or the unerring understanding of any one,
if rightly apprehended; must be disclaimed by all
Nations, and rejected even by mankind.

Again, A testimony is of small validity if deduced
from men out of their own profession; so if Lactantius
affirm the Figure of the Earth is plain, or Austin deny
there are Antipodes; though venerable Fathers of the
Church, and ever to be honoured, yet will not their
Authorities prove sufficient to ground a belief thereon.
Whereas notwithstanding the solid reason or confirmed
experience of any man, is very approvable in what
profession soever. So Raymund Sebund a Physician of
Tholouze, besides his learned Dialogues De Natura
Humana, hath written a natural Theologie; demonstrat-
ing therein the Attributes of God, and attempting the
like in most points of Religion. So Hugo Grotius a
Civilian, did write an excellent Tract of the verity of
Christian Religion. Wherein most rationally deliver-
ing themselves, their works will be embraced by most
that understand them, and their reasons enforce belief
even from prejudicate Readers. Neither indeed have
the Authorities of men been ever so awful; but that by
some they have been rejected, even in their own professions. Thus Aristotle affirning the birth of the Infant or time of its gestation, extendeth sometimes unto the eleventh Month, but Hippocrates, averring that it exceedeth not the tenth: Adrian the Emperour in a solemn process, determined for Aristotle; but Justinian many years after, took in with Hippocrates and reversed the Decree of the other. Thus have Councils, not only condemned private men, but the Decrees and Acts of one another. So Galen after all his veneration of Hippocrates, in some things hath fallen from him. Avicen in many from Galen; and others succeeding from him. And although the singularity of Paracelsus be intolerable, who sparing onely Hippocrates, hath reviled not onely the Authors, but almost all the learning that went before him; yet is it not much less injurious unto knowledge obstinately and inconvincibly to side with any one. Which humour unhappily possessing many, they have by prejudice withdrawn themselves into parties, and contemning the sovereignty of truth, seditiously abetted the private divisions of error.

Moreover a testimony in points Historical, and where it is of unavoidable use, is of no illation in the negative, nor is it of consequence that Herodotus writing nothing of Rome, there was therefore no such City in his time; or because Dioscorides hath made no mention of Unicorns horn, there is therefore no such thing in Nature. Indeed, intending an accurate enumeration of Medical materials, the omission hereof affords some probability, it was not used by the Ancients, but will not conclude the non-existence thereof. For so may we annihilate many Simples unknown to his enquiries, as Senna, Rhubarb, Bezoar, Ambregris, and divers others. Whereas
indeed the reason of man hath not such restraint; con-
cluding not only affirmatively but negatively; not
only affirming there is no magnitude beyond the last
heavens, but also denying there is any vacuity within
them. Although it be confessed, the affirmative hath
the prerogative illation, and Barbara engrosseth the
powerful demonstration.

Lastly, The strange relations made by Authors, may
sufficiently discourage our adherence unto Authority;
and which if we believe we must be apt to swallow
any thing. Thus Basil will tell us, the Serpent went
erect like Man, and that that Beast could speak
before the Fall. Tostatus would make us believe that
Nilus encreaseth every new Moon. Leonardo Fioravanti
an Italian Physitian, beside many other secrets, as-
sumeth unto himself the discovery of one concerning
Pellitory of the Wall; that is, that it never groweth
in the sight of the North star. *Dove si possa vedere
la stella Tramontana*, wherein how wide he is from truth,
is easily discoverable unto every one, who hath but
Astronomy enough to know that Star. *Franciscus Sancti-
tius* in a laudable Comment upon Alciats Emblems,
affirmeth, and that from experience, a Nightingale
hath no tongue. *Avem Philomelam lingua carere pro
certo affirmare possum, nisi me oculi fallunt.* Which if
any man for a while shall believe upon his experience,
he may at his leisure refute it by his own. What fool
almost would believe, at least, what wise man would
relie upon that Antidote delivered by Pierius in his
Hieroglyphicks against the sting of a Scorpion? that
is, to sit upon an Ass with ones face toward his tail;
for so the pain leaveth the Man, and passeth into the
Beast. It were methinks but an uncomfortable receit
for a Quartane Ague (and yet as good perhaps as many
others used) to have recourse unto the *Recipe* of *Summonicus*; that is, to lay the fourth Book of *Homers Iliads* under ones head, according to the precept of that Physitian and Poet, *Mæonicæ Iliados quartum suppone trementi*. There are surely few that have belief to swallow, or hope enough to experiment the Collyrium of *Albertus*; which promiseth a strange effect, and such as Thieves would count inestimable, that is, to make one see in the dark: yet thus much, according unto his receit, will the right eye of an Hedge-hog boiled in oyl, and preserved in a brazen vessel effect. As strange it is, and unto vicious inclinations were worth a nights lodging with *Lais*, what is delivered in *Kir-Ten thousand drachms*; that the left stone of a Weesel, wrapt up in the skin of a she Mule, is able to secure incontinency from conception.

These with swarms of others have men delivered in their Writings, whose verities are onely supported by their authorities: But being neither consonant unto reason, nor correspondent unto experiment, their affirmations are unto us no axioms: We esteem thereof as things unsaid, and account them but in the list of nothing. I wish herein the *Chymists* had been more sparing: who over-magnifying their preparations, inveigle the curiosity of many, and delude the security of most. For if experiments would answer their encomiums, the Stone and Quartane Agues were not opprobrious unto Physicians: we might contemn that first and most uncomfortable Aphorism of *Hippocrates*, *Ars longa vita brevis*. for surely that Art were soon attained, that hath so general remedies; and life could not be short, were there such to prolong it.
CHAPTER VIII

A brief enumeration of Authors.

NOW for as much as we have discoursed of Authority, and there is scarce any tradition or popular error but stands also delivered by some good Author; we shall endeavour a short discovery of such, as for the major part have given authority hereto: who though excellent and useful Authors, yet being either transcriptive, or following common relations, their accounts are not to be swallowed at large, or entertained without all circumspection. In whom the ipse dixit, although it be no powerful argument in any, is yet less authentick then in many other, because they deliver not their own experiences, but others affirmations, and write from others, as later pens from them.

1. The first in order, as also in time shall be Herodotus of Halicarnassus, an excellent and very elegant Historian; whose Books of History were so well received in his own days, and at their rehearsal in the Olympick games, they obtained the names of the nine Muses; and continued in such esteem unto descending Ages, that Cicero termed him, Historiarum parens. And Dionysius his Countryman, in an Epistle to Pompey, after an express comparison, affords him the better of Thucydides; all which notwithstanding, he hath received from some, the stile of Mendaciorum pater. His Authority was much infringed by Plutarch, who being offended with him, as Polybius had been with Philarcus for speaking too coldly of his Countrymen, hath left a particular Tract, De malignitate
Herodoti. But in this latter Century, Camerarius and Stephanus have stepped in, and by their witty Apologies, effectually endeavoured to frustrate the Arguments of Plutarch, or any other. Now in this Author, as may be observed in our ensuing discourse, and is better discernable in the perusal of himself, there are many things fabulously delivered, and not to be accepted as truths: whereby nevertheless if any man be deceived, the Author is not so culpable as the Believer. For he indeed imitating the Father Poet, whose life he hath also written, and as Thucydides observeth, as well intending the delight as benefit of his Reader, hath besprinkled his work with many fabulosities; whereby if any man be led into error, he mistaketh the intention of the Author, who plainly confesseth he writeth many things by hear-say, and forgetteth a very considerable caution of his; that is, Ego quo fundo cognovi, exponere narratione mea debo omnia: credere autem esse vera omnia, non debo.

2. In the second place is Ctesias the Cnidian, Physitian unto Artaxerxes King of Persia, his Books are often recited by ancient Writers, and by the industry of Stephanus and Rhodomanus, there are extant some fragments thereof in our days; he wrote the History of Persia, and many narrations of India. In the first, as having a fair opportunity to know the truth, and as Diodorus affirmeth the perusal of Persian Records, his testimony is acceptable. In his Indian Relations, wherein are contained strange and incredible accounts, he is surely to be read with suspension. These were they which weakned his authority with former ages; for as we may observe, he is seldom mentioned, without a derogatory Parenthesis in any Author. Aristotle besides the frequent undervaluing of his authority, in
his Books of Animals gives him the lie no less then twice, concerning the seed of Elephants. Strabo in his eleventh Book hath left a harder censure of him. Equidem facilius Hesiodo & Homero, aliquis fidem adhibuerit, itémque Tragicis Poetis, quam Ctesiae, Herodoto, Hellanico et eorum similibus. But Lucian hath spoken more plainer then any. Scripsit Ctesias de Indorum regione, deque iis quae apud illos sunt, ea quae nec ipse vidit, neque ex ullius sermone audivit. Yet were his relations taken up by some succeeding Writers, and many thereof revived by our Countryman, Sir John Mandevil, Knight, and Doctor in Physick; who after thirty years peregrination died at Liege, and was there honourably interred. He left a Book of his Travels, which hath been honoured with the translation of many Languages, and now continued above three hundred years; herein he often attesteth the fabulous relations of Ctesias, and seems to confirm the refuted accounts of Antiquity. All which may still be received in some acceptions of morality, and to a pregnant invention, may afford commendable mythologic; but in a natural and proper exposition, it containeth impossibilities, and things inconsistent with truth.

3. There is a Book De mirandis auditionibus, ascribed unto Aristotle; another De mirabilibus narrationibus, written long after by Antigonus, another also of the same title by Plegon Trallianus, translated by Xilander, and with the Annotations of Meursius, all whereof make good the promise of their titles, and may be read with caution. Which if any man shall likewise observe in the Lecture of Philostratus, concerning the life of Apollonius, and even in some passages of the sober and learned Plutarchus; or not only in ancient Writers,
but shall carry a wary eye on *Paulus Venetus, Jovius, Olaus Magnus, Nierembergius*, and many other: I think his circumspection is laudable, and he may thereby decline occasion of Error.

4. *Dioscorides Anazarbeus*, he wrote many Books in Physick, but six thereof *De Materia Medica*, have found the greatest esteem: he is an Author of good antiquity and use, preferred by *Galen* before *Cratevas, Pamphilus*, and all that attempted the like description before him; yet all he delivereth therein is not to be conceived Oraculous. For beside that, following the wars under *Anthony*, the course of his life would not permit a punctual *Examen* in all; there are many things concerning the nature of Simples, traditionally delivered, and to which I believe he gave no assent himself. It had been an excellent Receit, and in his time when Saddles were scarce in fashion of very great use, if that were true which he delivers, that *Vitex*, or *Agnus Castus* held only in the hand, preserveth the rider from galling. It were a strange effect, and Whores would forsake the experiment of *Savine*, if that were a truth which he delivereth of *Brake* or *female Fearn*, that onely treading over it, it causeth a sudden abortion. It were to be wished true, and women would idolize him, could that be made out which he recordeth of *Phyllon, Mercury*, and other vegetables, that the juice of the male Plant drunk, or the leaves but applied unto the genitals, determines their conceptions unto males. In these relations although he be more sparing, his predecessors were very numerous; and *Galen* hereof most sharply accuseth *Pamphilus*. Many of the like nature we meet sometimes in *Oribasius, Ælius, Trallianus, Serapion, Evax*, and *Marcellus*, whereof some containing no colour of verity,
we may at first sight reject them; others which seem
to carry some face of truth, we may reduce unto
experiment. And herein we shall rather perform good
offices unto truth, then any disservice unto their re-
lators, who have well deserved of succeeding Ages;
from whom having received the conceptions of former
Times, we have the readier hint of their conformity
with ours, and may accordingly explore and sift their
verities.

5. Plinius Secundus of Verona; a man of great
Eloquence, and industry indefatigable, as may appear
by his writings, especially those now extant, and which
are never like to perish, but even with learning it self;
that is, his Natural History. He was the greatest
Collector or Rhapsodist of the Latines, and as Suet-
tonius observeth, he collected this piece out of two
thousand Latine and Greek Authors. Now what is
very strange, there is scarce a popular error passant in
our days, which is not either directly expressed, or
deductively contained in this Work; which being in
the hands of most men, hath proved a powerful occasion
of their propagation. Wherein notwithstanding the
credulity of the Reader, is more condemnable than the
curiosity of the Author: for commonly he nameth
the Authors from whom he received those accounts,
and writes but as he reads, as in his Preface to Ves-
pasian he acknowledgeth.

6. Claudius Æelianus, who flourished not long after
in the reign of Trajan, unto whom he dedicated his
Tacticks; an elegant and miscellaneous Author, he
hath left two Books which are in the hands of every
one, his History of Animals, and his Varia Historia.
Wherein are contained many things suspicious, not a
few false, some impossible; he is much beholding unto
Ctesias, and in many uncertainties writes more confidently then Pliny.

7. Julius Solinus, who lived also about his time: He left a Work entituled Polyhistor, containing great variety of matter, and is with most in good request at this day. But to speak freely what cannot be concealed, it is but Pliny varied, or a transcription of his Natural History: nor is it without all wonder it hath continued so long, but is now likely, and deserves indeed to live for ever; not onely for the elegancy of the Text, but the excellency of the Comment, lately performed by Salmasius, under the name of Plinian Exercitations.

8. Athenæus, a delectable Author, very various, and justly stiled by Casaubon, Græcorum Plinius. There is extant of his, a famous Piece, under the name of Deipnosophista, or Caena Sapientum, containing the Discourse of many learned men, at a Feast provided by Laurentius. It is a laborious Collection out of many Authors, and some whereof are mentioned no where else. It containeth strange and singular relations, not without some spice or sprinkling of all Learning. The Author was probably a better Grammarian then Philosopher, dealing but hardly with Aristotle and Plato, and betrayeth himself much in his Chapter De Curiositate Aristotelis. In brief, he is an Author of excellent use, and may with discretion be read unto great advantage: and hath therefore well deserved the Comments of Casaubon and Dalecampion. But being miscellaneous in many things, he is to be received with suspition; for such as amass all relations, must erre in some, and may without offence be unbeliev'd in many.

9. We will not omit the works of Nicander, a Poet of good antiquity: that is, his Theriaca, and Alexi-
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CHAP. VIII pharmaca, Translated and Commented by Gorroæus: for therein are contained several Traditions, and popular Conceits of venemous Beasts; which only deducted, the Work is to be embraced, as containing the first description of poysons and their antidotes, whereof Dioscorides, Pliny, and Galen, have made especial use in elder times; and Ardoynus, Grevinus, and others, in times more near our own. We might perhaps let pass Oppianus, that famous Cilician Poet. There are extant of his in Greek, four Books of Cynegeticks or Venation, five of Halieuticks or Piscation, commented and published by Ritterhusius; wherein describing Beasts of venery and Fishes, he hath indeed but sparingly inserted the vulgar conceptions thereof. So that abating the annual mutation of Sexes in the Hyaæna, the single Sex of the Rhinoceros, the Antipathy between two Drums, of a Lamb and a Wolfes skin, the informity of Cubs, the venation of Centaures, the copulation of the Murena and the Viper, with some few others, he may be read with great delight and profit. It is not without some wonder his Elegant Lines are so neglected. Surely hereby we reject one of the best Epick Poets, and much condemn the Judgement of Antoninus, whose apprehensions so honoured his Poems, that as some report, for every verse, he assigned him a Stater of Gold.

10. More warily are we to receive the relations of Philes, who in Greek Iambicks delivered the proprieties of Animals, for herein he hath amassed the vulgar accounts recorded by the Ancients, and hath therein especially followed Ælian. And likewise Johannes Tzetzes, a Grammarian, who besides a Comment upon Hesiod and Homer, hath left us Chiliae de Varia Historia; wherein delivering the accounts of Ctesias, Herodotus, and most of the Ancients, he
is to be embraced with caution, and as a transcriptive Relator.

11. We cannot without partiality omit all caution even of holy Writers, and such whose names are venerable unto all posterity: not to meddle at all with miraculous Authors, or any Legendary relators, we are not without circumspection to receive some Books even of authentick and renowned Fathers. So are we to read the leaves of Basil and Ambrose, in their Books entitled Hexameron, or The Description of the Creation; Wherein delivering particular accounts of all the Creatures, they have left us relations sutable to those of Aelian, Plinie, and other Natural Writers; whose authorities herein they followed, and from whom most probably they desumed their Narrations. And the like hath been committed by Epiphanius; in his Physiologie: that is, a Book he hath left concerning the Nature of Animals. With no less caution must we look on Isidor Bishop of Sevil; who having left in twenty Books, an accurate work De Originibus, hath to the Etymologie of Words, super-added their received Natures; wherein most generally he consents with common Opinions and Authors which have delivered them.

12. Albertus Bishop of Ratisbone, for his great Learning and latitude of Knowledge, sirnamed Magnus. Besides Divinity, he hath written many Tracts in Philosophy; what we are chiefly to receive with caution, are his Natural Tractates, more especially those of Minerals, Vegetables, and Animals, which are indeed chiefly Collections out of Aristotle, Aelian, and Pliny, and respectively contain many of our popular Errors. A man who hath much advanced these Opinions by the authority of his Name, and delivered
most Conceits, with strict Enquiry into few. In the same Classis may well be placed Vincentius Belluacensis, or rather he from whom he collected his Speculum naturale, that is, Guilielmus de Conchis; and also Hortus Sanitatis, and Bartholomeus Glanvil, surnamed Anglicus, who writ De proprietatibus Rerum. Hither also may be referred Kiranides, which is a Collection out of Harpocation the Greek, and sundry Arabick Writers; delivering not onely the Natural but Magical propriety of things; a Work as full of Vanity as Variety; containing many relations, whose Invention is as difficult as their Beliefs, and their Experiments sometime as hard as either.

13. We had almost forgot Jeronimus Cardanus that famous Physician of Milan, a great Enquirer of Truth, but too greedy a Receiver of it. He hath left many excellent Discourses, Medical, Natural, and Astrological; the most suspicious are those two he wrote by admonition in a dream, that is De Subtilitate & Varietate Rerum. Assuredly this learned man hath taken many things upon trust, and although examined some, hath let slip many others. He is of singular use unto a prudent Reader; but unto him that onely desireth Hoties, or to replenish his head with varieties; like many others before related, either in the Original or confirmation, he may become no small occasion of Error.

14. Lastly, Authors are also suspicious, not greedily to be swallowed, who pretend to write of Secrets, to deliver Antipathies, Sympathies, and the occult abstrusities of things; in the list whereof may be accounted, Alexis Pedimontanus, Antonius Mizaldus, Trinum Magicum, and many others. Not omitting that famous Philosopher of Naples, Baptista Porta; in whose Works, although there be contained many excellent things,
and verified upon his own Experience; yet are there many also receptary, and such as will not endure the test. Who although he hath delivered many strange Relations in his Phytagomia, and his Villa; yet hath he more remarkably expressed himself in his Natural Magick, and the miraculous effects of Nature. Which containing various and delectable subjects, with all promising wondrous and easie effects, they are entertained by Readers at all hands; whereof the major part sit down in his authority, and thereby omit not onely the certainty of Truth, but the pleasure of its Experiment.

Thus have we made a brief enumeration of these Learned Men; not willing any to decline their Works (without which it is not easie to attain any measure of general Knowledge,) but to apply themselves with caution thereunto. And seeing the lapses of these worthy Pens, to cast a wary eye on those diminutive, and pamphlet Treaties daily published amongst us. Pieces maintaining rather Typography than Verity, Authors presumably writing by Common Places, wherein for many years promiscuously amassing all that makes for their subject, they break forth at last in trite and fruitless Rhapsodies; doing thereby not only open injury unto Learning, but committing a secret treachery upon truth. For their relations falling upon credulous Readers, they meet with prepared beliefs; whose supinities had rather assent unto all, then adventure the trial of any.

Thus, I say, must these Authors be read, and thus must we be read our selves; for discoursing of matters dubious, and many convertible truths; we cannot without arrogancy entreat a credulity, or implore any farther assent, then the probability of our Reasons, and verity of experiments induce.
CHAPTER IX
Of the Same.

THERE are beside these Authors and such as have positively promoted errors, divers other which are in some way accessory; whose verities although they do not directly assert, yet do they obliquely concur unto their beliefs. In which account are many holy Writers, Preachers, Moralists, Rhetoricians, Orators and Poets; for they depending upon Invention, deduce their mediums from all things whatsoever; and playing much upon the simile, or illustrative argumentation: to induce their Enthymemes unto the people, they took up popular conceits, and from traditions unjustifiable or really false, illustrate matters of undeniable truth. Wherein although their intention be sincere, and that course not much condemnable; yet doth it notoriously strengthen common Errors, and authorise Opinions injurious unto truth.

Thus have some Divines drawn into argument the Fable of the Phænix, made use of that of the Salamander, Pelican, Basilisk, and divers relations of Plinie; deducing from thence most worthy morals, and even upon our Saviour. Now although this be not prejudicial unto wiser Judgments, who are but weakly moved with such arguments, yet it is oft times occasion of Error unto vulgar heads, who expect in the Fable as equal a truth as in the Moral, and conceive that infallible Philosophy, which is in any sense delivered by Divinity. But wiser discerners do well understand, that every Art hath its own circle; that the effects of
things are best examined, by sciences wherein are
delivered their causes; that strict and definitive
expressions, are alway required in Philosophy, but a
loose and popular delivery will serve oftentimes in
Divinity. As may be observed even in holy Scripture,
which often omitteth the exact account of things;
describing them rather to our apprehensions, then
leaving doubts in vulgar minds, upon their unknown
and Philosophical descriptions. Thus it termeth the
Sun and the Moon the two great lights of Heaven.
Now if any shall from hence conclude, the Moon is
second in magnitude unto the Sun, he must excuse my
belief; and it cannot be strange, if herein I rather
adhere unto the demonstration of Ptolomy, then the
popular description of Moses. Thus is it said, Chron.
2. 4. That Solomon made a molten Sea of ten Cubits
from brim to brim round in compass, and five Cubits
the height thereof, and a line of thirty Cubits did
compass it round about. Now in this description, the
circumference is made just treble unto the Diameter:
that is, as 10. to 30. or 7. to 21. But Archimedes in his Cyclo-
demonstrates, that the proportion of the Diameter
unto the circumference, is as 7. unto almost 22. which
will occasion a sensible difference, that is almost a
Cubit. Now if herein I adhere unto Archimedes who
speaketh exactly, rather then the sacred Text which
speaketh largely; I hope I shall not offend Divinity:
I am sure I shall have reason and experience of every
circle to support me.

Thus Moral Writers, Rhetoricians and Orators make
use of several relations which will not consist with
verity. Aristotle in his Ethicks takes up the conceit
of the Bever, and the divulsion of his Testicles. The
tradition of the Bear, the Viper, and divers others are
frequent amongst Orators. All which although unto the illiterate and undiscerning hearers may seem a confirmation of their realities; yet is this no reasonable establishment unto others, who will not depend hereon otherwise then common Apologues: which being of impossible falsities, do notwithstanding include wholesome moralities, and such as expiate the trespass of their absurdities.

The Hieroglyphical doctrine of the Ægyptians (which in their four hundred years cohabitation some conjecture they learned from the Hebrews) hath much advanced many popular conceits. For using an Alphabet of things, and not of words, through the image and pictures thereof, they endeavoured to speak their hidden conceits in the letters and language of Nature. In pursuit whereof, although in many things, they exceeded not their true and real apprehensions; yet in some other they either framing the story, or taking up the tradition, conducible unto their intentions, obliquely confirmed many falsities; which as authentick and conceded truths did after pass unto the Greeks, from them unto other Nations, and are still retained by symbolical Writers, Emblematisists, Heralds, and others. Whereof some are strictly maintained for truths, as naturally making good their artificial representations; others symbolically intended, are literally received, and swallowed in the first sense, without all gust of the second. Whereby we pervert the profound and mysterious knowledge of Ægypt; containing the Arcana's of Greek Antiquities, the Key of many obscurities and ancient learning extant. Famous herein in former Ages were Heraiscus, Cheremon, Epius, especially Orus Apollo Niliacus: who lived in the reign of Theodosius, and in Ægyptian language left two
Books of Hieroglyphicks, translated into Greek by Philippus, and a large collection of all made after by Pierius. But no man is likely to profound the Ocean of that Doctrine, beyond that eminent example of industrious Learning, Kircherus.

Painters who are the visible representers of things, and such as by the learned sense of the eye endeavour to inform the understanding, are not inculpable herein, who either describing Naturals as they are, or actions as they have been, have oftentimes erred in their delineations. Which being the Books that all can read, are fruitful advancers of these conceptions, especially in common and popular apprehensions: who being unable for farther enquiry, must rest in the draught and letter of their descriptions.

Lastly, Poets and Poetical Writers have in this point exceeded others, trimly advancing the Egyptian notions of Harpies, Phænix, Gryphins, and many more. Now however to make use of Fictions, Apologues, and Fables, be not unwarrantable, and the intent of these inventions might point at laudable ends; yet do they afford our junior capacities a frequent occasion of error, setting impressions in our tender memories, which our advanced judgments generally neglect to expunge. This way the vain and idle fictions of the Gentiles did first insinuate into the heads of Christians; and thus are they continued even unto our days. Our first and literary apprehensions being commonly instructed in Authors which handle nothing else; where with our memories being stuffed, our inventions become pedantick, and cannot avoid their allusions; driving at these as at the highest elegancies, which are but the frigidities of wit, and become not the genius of manly ingenuities. It were therefore no loss like that of
Galens Library, if these had found the same fate; and would in some way requite the neglect of solid Authors, if they were less pursued. For were a pregnant wit educated in ignorance hereof, receiving only impressions from realities; upon such solid foundations, it must surely raise more substantial superstructions, and fall upon very many excellent strains, which have been jusled off by their intrusions.

CHAPTER X

Of the last and common Promoter of false Opinions, the endeavours of Satan.

But beside the infirmities of humane Nature, the seed of Error within our selves, and the several ways of delusion from each other, there is an invisible Agent, and secret promoter without us, whose activity is undiscerned, and plays in the dark upon us; and that is the first contriver of Error, and professed opposer of Truth, the Devil. For though permitted unto his proper principles, Adam perhaps would have sinned without the suggestion of Satan: and from the transgressive infirmities of himself might have erred alone, as well as the Angels before him: And although also there were no Devil at all, yet there is now in our Natures a confessed sufficiency unto corruption, and the frailty of our own Oeconomie, were able to betray us out of Truth, yet wants there not another Agent, who taking advantage hereof proceedeth to obscure the diviner part, and efface all tract of its traduction. To attempt a particular of all his wiles, is too bold an Arithmetick for
man: what most considerably concerneth his popular and practised ways of delusion, he first deceiveth mankind in five main points concerning God and himself.

And first his endeavours have ever been, and they cease not yet to instill a belief in the mind of Man, there is no God at all. And this he principally endeavours to establish in a direct and literal apprehension; that is, that there is no such reality existent, that the necessity of his entity dependeth upon ours, and is but a Political Chymera; that the natural truth of God is an artificial erection of Man, and the Creator himself but a subtile invention of the Creature. Where he succeeds not thus high, he labours to introduce a secondary and deductive Atheism; that although men concede there is a God, yet should they deny his providence. And therefore assertions have flown about, that he intendeth only the care of the species or common natures, but letteth loose the guard of individuals, and single existencies therein: that he looks not below the Moon, but hath designed the regiment of sublunary affairs unto inferiour deputations. To promote which apprehensions, or empuzzel their due conceptions, he casteth in the notions of fate, destiny, fortune, chance, and necessity; terms commonly misconceived by vulgar heads, and their propriety sometime perverted by the wisest. Whereby extinguishing in minds the compensation of vertue and vice, the hope and fear of Heaven or Hell; they comply in their actions unto the drift of his delusions, and live like creatures without the capacity of either.

Now hereby he not onely undermineth the Base of Religion, and destroyeth the principle preambulous unto all belief; but puts upon us the remotest Error
from Truth. For Atheism is the greatest falsity, and to affirm there is no God, the highest lie in Nature. And therefore strictly taken, some men will say his labour is in vain; For many there are, who cannot conceive there was ever any absolute Atheist; or such as could determine there was no God, without all check from himself, or contradiction from his other opinions. And therefore those few so called by elder times, might be the best of Pagans; suffering that name rather in relation to the gods of the Gentiles, then the true Creator of all. A conceit that cannot befall his greatest enemy, or him that would induce the same in us; who hath a sensible apprehension hereof, for he believeth with trembling. To speak yet more strictly and conformably unto some Opinions, no creature can wish thus much; nor can the Will which hath a power to run into velleities, and wishes of impossibilities, have any utinam of this. For to desire there were no God, were plainly to unwish their own being; which must needs be annihilated in the substraction of that essence which substantially supporteth them, and restrains them from regression into nothing. And if as some contend, no creature can desire his own annihilation, that Nothing is not appetible, and not to be at all, is worse then to be in the miserablist condition of something; the Devil himself could not embrace that motion, nor would the enemy of God be freed by such a Redemption.

But coldly thriving in this design, as being repulsed by the principles of humanity, and the dictates of that production, which cannot deny its original, he fetcheth a wider circle; and when he cannot make men conceive there is no God at all, he endeavours to make them believe there is not one, but many: wherein he hath
been so successful with common heads, that he hath led their belief thorow all the Works of Nature.

Now in this latter attempt, the subtilty of his circumvention, hath indirectly obtained the former. For although to opinion there be many gods, may seem an excess in Religion, and such as cannot at all consist with Atheism, yet doth it deductively and upon inference include the same, for Unity is the inseparable and essential attribute of Deity; and if there be more then one God, it is no Atheism to say there is no God at all. And herein though Socrates only suffered, yet were Plato and Aristotle guilty of the same Truth; who demonstratively understanding the simplicity of perfection, and the indivisible condition of the first causator, it was not in the power of Earth, or Areopagy of Hell to work them from it. For holding an Apodictical knowledge, and assured science of its verity, to perswade their apprehensions unto a plurality of gods in the world, were to make Euclide believe there were more than one Center in a Circle, or one right Angle in a Triangle; which were indeed a fruitless attempt, and inferreth absurdities beyond the evasion of Hell. For though Mechanick and vulgar heads ascend not unto such comprehensions, who live not commonly unto half the advantage of their principles; yet did they not escape the eye of wiser Minerva's, and such as made good the genealogie of Jupiter's brains; who although they had divers stiles for God, yet under many appellations acknowledged one divinity: rather conceiving thereby the evidence or acts of his power in several ways and places, then a multiplication of Essence, or real distraction of unity in any one.

Again, To render our errors more monstrous (and what unto miracle sets forth the patience of God,) he
hath endeavoured to make the world believe, that he was God himself; and failing of his first attempt to be but like the highest in Heaven, he hath obtained with men to be the same on Earth. And hath accordingly assumed the annexes of Divinity, and the prerogatives of the Creator, drawing into practice the operation of miracles, and the prescience of things to come. Thus hath he in a specious way wrought cures upon the sick: played over the wondrous acts of Prophets, and counterfeited many miracles of Christ and his Apostles. Thus hath he openly contended with God, and to this effect his insolency was not ashamed to play a solemn prize with Moses; wherein although his performance were very specious, and beyond the common apprehension of any power below a Deity; yet was it not such as could make good his Omnipotency. For he was wholly confounded in the conversion of dust into lice. An act Philosophy can scarce deny to be above the power of Nature, nor upon a requisite predisposition beyond the efficacy of the Sun. Wherein notwithstanding the head of the old Serpent was confessedly too weak for Moses hand, and the arm of his Magicians too short for the finger of God.

Thus hath he also made men believe that he can raise the dead, that he hath the key of life and death, and a prerogative above that principle which makes no regression from privations. The Stoicks that opined the souls of wise men dwelt about the Moon, and those of fools wandered about the Earth, advantaged the conceit of this effect; wherein the Epicureans, who held that death was nothing, nor nothing after death, must contradict their principles to be deceived. Nor could the Pythagoreans or such as maintained the transmigration of souls give easie admittance hereto:
for holding that separated souls successively supplied other bodies, they could hardly allow the raising of souls from other worlds, which at the same time, they conceived conjoined unto bodies in this. More inconsistent with these Opinions, is the Error of Christians, who holding the dead do rest in the Lord, do yet believe they are at the lure of the Devil; that he who is in bonds himself commandeth the fetters of the dead, and dwelling in the bottomless lake, the blessed from Abrahams bosome, that can believe the real resurrection of Samuel: or that there is any thing but delusion in the practice of Necromancy and popular raising of Ghosts.

He hath moreover endeavoured the opinion of Deity, by the delusion of Dreams, and the discovery of things to come in sleep, above the prescience of our waked senses. In this expectation he perswaded the credulity of elder times to take up their lodging before his temple, in skins of their own sacrifices: till his reservedness had contrived answers, whose accomplishments were in his power, or not beyond his presagement. Which way, although it had pleased Almighty God, sometimes to reveal himself, yet was the proceeding very different. For the revelations of Heaven are conveyed by new impressions, and the immediate illumination of the soul, whereas the deceiving spirit, by concitation of humours, produceth his conceited phantasms, or by compounding the species already residing, doth make up words which mentally speak his intentions.

But above all he most advanced his Deity in the solemn practice of Oracles, wherein in several parts of the World, he publikely professed his Divinity; but how short they flew of that spirit, whose omniscience,
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they would resemble, their weakness sufficiently declared. What jugling there was therein, the Orator plainly confessed, who being good at the same game himself, could say that Pythia Philippised. Who can but laugh at the carriage of Ammon unto Alexander, who addressing unto him as a god, was made to believe, he was a god himself? How openly did he betray his Indivinity unto Cræsus, who being ruined by his Amphibology, and expostulating with him for so ungrateful a deceit, received no higher answer then the excuse of his impotency upon the contradiction of fate, and the settled law of powers beyond his power to controle! What more then sublunary directions, or such as might proceed from the Oracle of humane Reason, was in his advice unto the Spartans in the time of a great Plague; when for the cessation thereof, he wisht them to have recourse unto a Fawn, that is in open terms, unto one Nebrus, a good Physitian of those days? From no diviner a spirit came his reply unto Caracalla, who requiring a remedy for his Gout, received no other counsel then to refrain cold drink; which was but a dietetical caution, and such as without a journey unto Æsculapius, culinary prescription and kitchin Aphorisms might have afforded at home. Nor surely if any truth there were therein, of more then natural activity was his counsel unto Democritus; when for the Falling sickness he commended the Maggot in a Goats head. For many things secret are true; sympathies and antipathies are safely authentick unto us, who ignorant of their causes may yet acknowledge their effects. Beside, being a natural Magician he may perform many acts in ways above our knowledge, though not transcending our natural power, when our knowledge shall direct it. Part hereof hath been dis-
covered by himself, and some by humane indagation: which though magnified as fresh inventions unto us, are stale unto his cognition. I hardly believe he hath from elder times unknown the verticity of the Loadstone; surely his perspicacity discerned it to respect the North, when ours beheld it indeterminately. Many secrets there are in Nature of difficult discovery unto man, of easie knowledge unto Satan; whereof some his vain glory cannot conceal, others his envy will not discover.

Again, Such is the mysterie of his delusion, that although he labour to make us believe that he is God, and supremest nature whatsoever, yet would he also perswade our beliefs, that he is less then Angels or men; and his condition not onely subjected unto rational powers, but the actions of things which have no efficacy on our selves. Thus hath he inveigled no small part of the world into a credulity of artificial Magick: That there is an Art, which without compact commandeth the powers of Hell; whence some have delivered the polity of spirits, and left an account even to their Provincial Dominions: that they stand in awe of Charms, Spels, and Conjurations; that he is afraid of letters and characters, of notes and dashes, which set together do signifie nothing, not only in the dictionary of man, but the subtler vocabulary of Satan. That there is any power in Bitumen, Pitch, or Brimstone, to purifie the air from his uncleanness; that any vertue there is in Hipericon to make good the name of fuga Daemonis, any such Magick as is ascribed unto the Root Baaras by Josephus, or Cynospastus by Aelius, it is not easie to believe; nor is it naturally made out what is delivered of Tobias, that by the fume of a Fishes liver, he put to flight Asmodeus. That
they are afraid of the pentangle of Solomon, though so set forth with the body of man, as to touch and point out the five places wherein our Saviour was wounded, I know not how to assent. If perhaps he hath fled from holy Water, if he cares not to hear the sound of Tetragrammaton, if his eye delight not in the sign of the Cross; and that sometimes he will seem to be charmed with words of holy Scripture, and to fly from the letter and dead verbality, who must only start at the life and animated interiors thereof: It may be feared they are but Parthian flights, Ambuscado retreats, and elusory tergiversations: Whereby to confirm our credulities, he will comply with the opinion of such powers, which in themselves have no activities. Whereof having once begot in our minds an assured dependence, he makes us rely on powers which he but precariously obeys; and to desert those true and only charms which Hell cannot withstand.

Lastly, To lead us farther into darkness, and quite to lose us in this maze of Error, he would make men believe there is no such creature as himself: and that he is not onely subject unto inferiour creatures, but in the rank of nothing. Insinuating into mens minds there is no Devil at all, and contriveth accordingly, many ways to conceal or indubitate his existency. Wherein beside that he annihilates the blessed Angels and Spirits in the rank of his Creation; he begets a security of himself, and a careless eye unto the last remunerations. And therefore hereto he inveigleth, not only Sadduces and such as retain unto the Church of God: but is also content that Epicurus, Democritis, or any Heathen should hold the same. And to this effect he maketh men believe that apparitions, and such as confirm his existence are either deceptions of
sight, or melancholly depravements of phansie. Thus when he had not onely appeared but spake unto Brutus; Cassius the Epicurian was ready at hand to perswade him, it was but a mistake in his weary imagination, and that indeed there were no such realities in nature. Thus he endeavours to propagate the unbelief of Witches, whose concession infers his co-existency; by this means also he advanceth the opinion of total death, and staggereth the immortality of the soul; for, such as deny there are spirits subsistent without bodies, will with more difficulty affirm the separated existence of their own.

Now to induce and bring about these falsities, he hath laboured to destroy the evidence of Truth, that is the revealed verity and written Word of God. To which intent he hath obtained with some to repudiate the Books of Moses, others those of the Prophets, and some both: to deny the Gospel and authentick Histories of Christ; to reject that of John, and to receive that of Judas; to disallow all, and erect another of Thomas. And when neither their corruption by Valentinus and Arrius, their mutilation by Marcion, Manes, and Ebion could satisfie his design, he attempted the ruine and total destruction thereof; as he sedulously endeavoured, by the power and subtilty of Julian, Maximinus, and Dioclesian.

But the longevity of that piece, which hath so long escaped the common fate, and the providence of that Spirit which ever waketh over it, may at last discourage such attempts; and if not make doubtful its Mortality, at least indubitably declare; this is a stone too big for Saturns mouth, and a bit indeed Oblivion cannot swallow.

And thus how strangely he possesseth us with Errors
may clearly be observed, deluding us into contradictory
and inconsistent falsities; whilst he would make us
believe, That there is no God. That there are many.
That he himself is God. That he is less then Angels
or Men. That he is nothing at all.

Nor hath he onely by these wiles depraved the con-
ception of the Creator, but with such Riddles hath
also entangled the Nature of our Redeemer. Some
denying his Humanity, and that he was one of the
Angels, as Ebion; that the Father and Son were but
one person, as Sabellius. That his body was phantas-
tical, as Manes, Basilides, Priscillian, Jovinianus; that
he only passed through Mary, as Utyches and Valen-
tinus. Some denying his Divinity; that he was be-
gotten of humane principles, and the seminal Son of
Joseph; as Carpocras, Symmachus, Photinus: that he
was Seth the Son of Adam, as the Sethians: that he
was less then Angels, as Cherinthus: that he was
inferiour unto Melchisedec, as Theodotus: that he was
not God, but God dwelt in him, as Nicholaus: and
some embroyled them both. So did they which con-
verted the Trinity into a Quaternity, and affirmed two
persons in Christ, as Paulus Samosatenus: that held
he was Man without a Soul, and that the Word
performed that office in him, as Apollinaris: that he
was both Son and Father, as Montanus: that Jesus
suffered, but Christ remained impatible, as Cherinthus.
Thus he endeavours to entangle Truths: And when he
cannot possibly destroy its substance, he cunningly
confounds its apprehensions; that from the incon-
sistent and contrary determinations thereof, consequ-
tary impieties, and hopeful conclusions may arise, there's
no such thing at all.
CHAPTER XI

A further Illustration.

NOW although these ways of delusions most Christians have escaped, yet are there many other whereunto we are daily betrayed, and these we meet with in obvious occurrences of the world, wherein he induceth us, to ascribe effects unto causes of no cognition; and distorting the order and theory of causes perpendicular to their effects, he draws them aside unto things whereto they run parallel, and in their proper motions would never meet together.

Thus doth he sometime delude us in the conceits of Stars and Meteors, beside their allowable actions ascribing effects thereunto of independent causations. Thus hath he also made the ignorant sort believe that natural effects immediately and commonly proceed from supernatural powers: and these he usually drives from Heaven, his own principality the Air, and Meteors therein; which being of themselves the effects of natural and created causes, and such as upon a due conjunction of actives and passives, without a miracle must arise unto what they appear; are always looked on by ignorant spectators as supernatural spectacles, and made the causes or signs of most succeeding contingencies. To behold a Rainbow in the night, is no prodigy unto a Philosopher. Then Eclipses of Sun or Moon, nothing is more natural. Yet with what superstition they have been beheld since the Tragedy of Nicias and his Army, many examples declare.

True it is, and we will not deny, that although these being natural productions from second and settled causes,
we need not alway look upon them as the immediate hand of God, or of his ministring Spirits; yet do they sometimes admit a respect therein; and even in their naturals, the indifferency of their existencies contemporised unto our actions, admits a further consideration.

That two or three Suns or Moons appear in any man's life or reign, it is not worth the wonder. But that the same should fall out at a remarkable time, or point of some decisive action; that the contingency of the appearance should be confirmed unto that time; that those two should make but one line in the Book of Fate, and stand together in the great Ephemerides of God; beside the Philosophical assignment of the cause, it may admit a Christian apprehension in the signality.

But above all he deceiveth us, when we ascribe the effects of things unto evident and seeming causalities, which arise from the secret and undiscerned action of himself. Thus hath he deluded many Nations in his Augurial and Extispicious inventions, from casual and uncontrived contingencies divining events succeeding. Which Tuscan superstition seizing upon Rome, hath since possessed all Europe. When Augustus found two galls in his sacrifice, the credulity of the City concluded a hope of peace with Anthony; and the conjunction of persons in choler with each other. Because Brutus and Cassius met a Blackmore, and Pompey had on a dark or sad coloured garment at Pharsalia; these were presages of their overthrow. Which notwithstanding are scarce Rhetorical sequels; concluding Metaphors from realities, and from conceptions metaphorical inferring realities again.

Now these divinations concerning events, being in his power to force, contrive, prevent, or further, they
must generally fall out conformably unto his predictions. When Graccus was slain, the same day the Chickens refused to come out of the Coop: and Claudius Pulcher underwent the like success, when he contemned the Tripudiary Augurations: They died not because the Pullets would not feed: but because the Devil foresaw their death, he contrived that abstinence in them. So was there no natural dependence of the event. An unexpected way of delusion, and whereby he more easily led away the incircumspection of their belief. Which fallacy he might excellently have acted before the death of Saul; for that being within his power to foretell, was not beyond his ability to foreshew: and might have contrived signs thereof through all the creatures, which visibly confirmed by the event, had proved authentick unto those times, and advanced the Art ever after.

He deludeth us also by Philters, Ligatures, Charms, ungrounded Amulets, Characters, and many superstitious ways in the cure of common diseases: seconding herein the expectation of men with events of his own contriving. Which while some unwilling to fall directly upon Magick, impute unto the power of imagination, or the efficacy of hidden causes, he obtains a bloody advantage: for thereby he begets not only a false opinion, but such as leadeth the open way of destruction. In maladies admitting natural reliefs, making men rely on remedies, neither of real operation in themselves, nor more then seeming efficacy in his concurrence. Which wh enseover he pleaseth to withdraw, they stand naked unto the mischief of their diseases: and revenge the contempt of the medicines of the Earth which God hath created for them. And therefore when neither miracle is expected, nor connection of cause
unto effect from natural grounds concluded; however it be sometime successful, it cannot be safe to rely on such practises, and desert the known and authentick provisions of God. In which rank of remedies, if nothing in our knowledge or their proper power be able to relieve us, we must with patience submit unto that restraint, and expect the will of the Restrainer.

Now in these effects although he seems oft-times to imitate, yet doth he concur unto their productions in a different way from that spirit which sometime in natural means produceth effects above Nature. For whether he worketh by causes which have relation or none unto the effect, he maketh it out by secret and undiscerned ways of Nature. So when Caius the blind, in the reign of Antoninus, was commanded to pass from the right side of the Altar unto the left, to lay five fingers of one hand thereon, and five of the other upon his eys; although the cure succeeded and all the people wondered, there was not any thing in the action which did produce it, nor any thing in his power that could enable it thereunto. So for the same infirmity, when Aper was counselled by him to make a Collyrium or ocular medicine with the blood of a white Cock and Honey, and apply it to his eyes for three days: When Julian for his spitting of blood, was cured by Honey and Pine nuts taken from his Altar: When Lucius for the pain in his side, applied thereto the ashes from his Altar with wine; although the remedies were somewhat rational, and not without a natural vertue unto such intentions, yet need we not believe that by their proper faculties they produced these effects.

But the effects of powers Divine flow from another operation; who either proceeding by visible means or not, unto visible effects, is able to conjoin them by his
co-operation. And therefore those sensible ways which seem of indifferent natures, are not idle ceremonies, but may be causes by his command, and arise unto productions beyond their regular activities. If Nahaman the Syrian had washed in *Jordan* without the command of the Prophet, I believe he had been cleansed by them no more then by the waters of *Damascus*. I doubt if any beside *Elisha* had cast in Salt, the waters of *Jericho* had not been made wholesome. I know that a decoction of wild gourd or *Colocynthis* (though somewhat qualified) will not from every hand be dulcified unto aliment by an addition of flower or meal. There was some natural vertue in the *Plaister* of figs applied unto *Ezechias*; we find that gall is very mundificative, and was a proper medicine to clear the eyes of *Tobit*: which carrying in themselves some action of their own, they were additionally promoted by that power, which can extend their natures unto the production of effects beyond their created efficiencies. And thus may he operate also from causes of no power unto their visible effects; for he that hath determined their actions unto certain effects, hath not so emptied his own, but that he can make them effectual unto any other.

Again, Although his delusions run highest in points of practice, whose errors draw on offensive or penal enormities, yet doth he also deal in points of speculation, and things whose knowledge terminates in themselves. Whose cognition although it seems indifferent, and therefore its aberration directly to condemn no man; yet doth he hereby preparatively dispose us unto errors, and deductively deject us into destructive conclusions.

That the Sun, Moon, and Stars are living creatures, endued with soul and life, seems an innocent Error,
and an harmless digression from truth; yet hereby he confirmed their Idolatry, and made it more plausibly embraced. For wisely mistrusting that reasonable spirits would never firmly be lost in the adorement of things inanimate, and in the lowest form of Nature; he begat an opinion that they were living creatures, and could not decay for ever.

That spirits are corporeal, seems at first view a conceit derogative unto himself, and such as he should rather labour to overthrow; yet hereby he establisheth the Doctrine of Lustrations, Amulets and Charms, as we have declared before.

That there are two principles of all things, one good, and another evil; from the one proceeding vertue, love, light, and unity; from the other, division, discord, darkness, and deformity, was the speculation of Pythagoras, Empedocles, and many ancient Philosophers, and was no more then Oromasdes and Arimanius of Zoroaster. Yet hereby he obtained the advantage of Adoration, and as the terrible principle became more dreadful then his Maker; and therefore not willing to let it fall, he furthered the conceit in succeeding Ages, and raised the faction of Manes to maintain it.

That the feminine sex have no generative emission, affording no seminal Principles of conception; was Aristotle's Opinion of old, maintained still by some, and will be countenanced by him forever. For hereby he disparageth the fruit of the Virgin, frustrateth the fundamental Prophesie, nor can the seed of the Woman then break the head of the Serpent.

Nor doth he only sport in speculative Errors, which are of consequent impieties; but the unquietness of his malice hunts after simple lapses, and such whose falsities do only condemn our understandings. Thus
if Xenophanes will say there is another world in the Moon; If Heraclitus with his adherents will hold the Sun is no bigger then it appeareth; If Anaxagoras affirm that Snow is black; If any other opinion there are no Antipodes, or that Stars do fall, he shall not want herein the applause or advocacy of Satan. For maligning the tranquility of truth, he delighteth to trouble its streams; and being a professed enemy unto God (who is truth it self) he promoteth any Error as derogatory to his nature; and revengeth himself in every deformity from truth. If therefore at any time he speak or practise truth, it is upon design, and a subtile inversion of the precept of God, to do good that evil may come of it. And therefore sometime we meet with wholesome doctrines from Hell; Nosce teipsum, the Motto of Delphos, was a good precept in morality: That a just man is beloved of the gods, an uncontrol-able verity. 'Twas a good deed, though not well done, which he wrought by Vespasian, when by the touch of his foot he restored a lame man, and by the stroak of his hand another that was blind, but the intention hereof drived at his own advantage; for hereby he not only confirmed the opinion of his power with the people, but his integrity with Princes; in whose power he knew it lay to overthrow his Oracles, and silence the practice of his delusions.

But of such a diffused nature, and so large is the Empire of Truth, that it hath place within the walls of Hell, and the Devils themselves are daily forced to practise it; not onely as being true themselves in a Metaphysical verity, that is, as having their essence conformable unto the Intellect of their Maker, but making use of Moral and Logical verities; that is, whether in the conformity of words unto things, or
things unto their own conceptions, they practise truth in common among themselves. For although without speech they intuitively conceive each other, yet do their apprehensions proceed through realities; and they conceive each other by species, which carry the true and proper notions of things conceived. And so also in Moral verities, although they deceive us, they lie unto each other; as well understanding that all community is continued by Truth, and that of Hell cannot consist without it.

To come yet nearer the point, and draw into a sharper angle; They do not only speak and practise truth, but may be said well-wishers hereunto, and in some sense do really desire its enlargement. For many things which in themselves are false, they do desire were true; He cannot but wish he were as he professeth, that he had the knowledge of future events; were it in his power, the Jews should be in the right, and the Messias yet to come. Could his desires effect it, the opinion of Aristotle should be true, the world should have no end, but be as immortal as himself. For thereby he might evade the accomplishment of those afflictions, he now but gradually endureth; for comparatively unto those flames, he is but yet in Balneo, then begins his Ignis Rotæ, and terrible fire, which will determine his disputed subtilty, and even hazard his immortality.

But to speak strictly, he is in these wishes no promoter of verity, but if considered some ways injurious unto truth; for (besides that if things were true, which now are false, it were but an exchange of their natures, and things must then be false, which now are true) the settled and determined order of the world would be perverted, and that course of things disturbed, which
seemed best unto the immutable contriver. For whilst they murmur against the present dispose of things, regulating determined realities unto their private optations, they rest not in their established natures; but unwishing their unalterable verities, do tacitely desire in them a deformity from the primitive Rule, and the Idea of that mind that formed all things best. And thus he offended truth even in his first attempt; For not content with his created nature, and thinking it too low, to be the highest creature of God, he offended the Ordainer, not only in the attempt, but in the wish and simple volition thereof.
THE SECOND BOOK

Of sundry popular Tenets concerning Mineral, and vegetable bodies, generally held for truth; which examined, prove either false, or dubious.

CHAPTER I

Of Crystal.

HEREOF the common Opinion hath been, and still remaineth amongst us, that Crystal is nothing else but Ice or Snow concreted, and by duration of time, congealed beyond liquation. Of which assertion, if prescription of time, and numerosity of Assertors, were a sufficient demonstration, we might sit down herein, as an unquestionable truth; nor should there need ulterior disquisition. For few Opinions there are which have found so many friends, or been so popularly received, through all Professions and Ages. Pliny is positive in this Opinion: Crystallus sit gelu vehementius concreto: the same is followed by Seneca, elegantly described by Claudian, not denied by Scaliger, some way affirmed by Albertus, Brasavolus, and directly by many others. The venerable Fathers of the Church have also assented hereto; As Basil in his Hexameron, Isidore in his Etymologies, and not
only *Austin* a Latine Father, but *Gregory* the Great, and *Jerome* upon occasion of that term expressed in the first of *Ezekiel*.

All which notwithstanding, upon a strict enquiry, we find the matter controvertible, and with much more reason denied then is as yet affirmed. For though many have passed it over with easie affirmatives, yet are there also many Authors that deny it, and the exactest Mineralogists have rejected it. *Diodorus* in his eleventh Book denieth it, (if Crystal be there taken in its proper acception, as *Rhodiginus* hath used it, and not for a Diamond, as *Salmatius* hath expounded it) for in that place he affirmeth; *Crystallum esse lapidem ex aqua pura concretum, non tamen frigore sed divini caloris vi.* *Solinus* who transcribed *Pliny*, and therefore in almost all subscribed unto him, hath in this point dissented from him. *Putant quidam glaciem coire, et in Crystal-lum corporari, sed frustra.* *Mathiulus* in his Comment upon *Dioscorides*, hath with confidence rejected it. The same hath been performed by *Agricola de natura fossilium*; by *Cardan, Bætius de Boot, Cæsius Bernardus, Sennertus*, and many more.

Now besides Authority against it, there may be many reasons deduced from their several differences which seem to overthrow it. And first, a difference is probable in their concretion. For if Crystal be a stone (as in the number thereof it is confessedly received,) it is not immediately concreted by the efficacy of cold, but rather by a Mineral spirit, and lapidifical principles of its own, and therefore while it lay *in solutis principiis*, and remained in a fluid Body, it was a subject very unapt for proper conglaciation; for Mineral spirits do generally resist and scarce submit thereto. So we observe that many waters and springs will never freeze,
and many parts in Rivers and Lakes, where there are
Mineral eruptions, will still persist without congeela-
tions, as we also observe in \textit{Aqua fortis}, or any Mineral
solution, either of Vitriol, Alum, Salt-petre, Ammoniac,
or Tartar, which although to some degree exhaled, and
placed in cold Conservatories, will Crystallize and shoot
into white and glacious bodies; yet is not this a con-
gelation primarily effected by cold, but an intrinsecaal
induration from themselves; and a retreat into their
proper solidities, which were absorbed by the liquor,
and lost in a full imbibition thereof before. And so
also when wood and many other bodies do putrifie,
either by the Sea, other waters, or earths abounding
in such spirits; we do not usually ascribe their indura-
tion to cold, but rather unto salinous spirits, concretive
juices, and causes circumjacent, which do assimilate all
bodies not indisposed for their impressions.

But Ice is water congealed by the frigidity of the
air, whereby it acquireth no new form, but rather a
consistence or determination of its diffuency, and amit-
teth not its essence, but condition of fluidity. Neither
doeth there any thing properly conglaciate but water,
or watery humidity; for the determination of quick-
silver is properly fixation, that of milk coagulation,
and that of oyl and unctious bodies, only incrassation;
And therefore \textit{Aristotle} makes a trial of the fertility of
humane seed, from the experiment of congelation; for
that (saith he) which is not watery and improuisical
will not conglaciate; which perhaps must not be taken
strictly, but in the germ and spirited particles: For
\textit{Eggs} I observe will freeze, in the albuginous part thereof.
And upon this ground \textit{Paracelsus} in his Archidoxis,
extracteth the magistery of wine; after four moneths
digestion in horse-dung, exposing it unto the extremity
of cold; whereby the aqueous parts will freeze, but the Spirit retire and be found congealed in the Center.

But whether this congelation be simply made by cold, or also by co-operation of any nitrous coagulum, or spirit of Salt the principle of concretion; whereby we observe that ice may be made with Salt and Snow by the fire side; as is also observable from Ice made by Saltpetre and water, duly mixed and strongly agitated at any time of the year, were a very considerable enquiry. For thereby we might clear the generation of Snow, Hail, and hoary Frosts, the piercing qualities of some winds, the coldness of Caverns, and some Cells. We might more sensibly conceive how Saltpetre fixeth the flying spirits of Minerals in Chymical Preparations, and how by this congealing quality it becomes an useful medicine in Fevers.

Again, The difference of their concretion is collectible from their dissolution; which being many ways performable in Ice, is few ways effected in Crystal. Now the causes of liqation are contrary to those of concretion; and as the Atoms and indivisible parcels are united, so are they in an opposite way disjoyned. That which is concreted by exsiccation or expression of humidity, will be resolved by humectation, as Earth, Dirt, and Clay; that which is coagulated by a fiery siccity, will suffer colliquation from an aqueous humidity, as Salt and Sugar, which are easily dissoluble in water, but not without difficulty in oyl, and well rectified spirits of Wine. That which is concreted by cold, will dissolve by a moist heat, if it consist of watery parts, as Gums, Arabick, Tragacanth, Ammoniac and others; in an airy heat or oyl, as all resinous bodies, Turpentine, Pitch, and Frankincense; in both, as gummy resinous bodies, Mastick, Camphire
and Storax; in neither, as neutrals and bodies anomalous hereto, as Bdellium, Myrrhe, and others. Some by a violent dry heat, as Metals; which although corroducible by waters, yet will they not suffer a liquation from the powerfullest heat, communicable unto that element. Some will dissolve by this heat although their ingredients be earthy, as Glass, whose materials are fine Sand, and the ashes of Chali or Fearn; and so will Salt run with fire, although it be concreted by heat. And this way may be effected a liquation in Crystal, but not without some difficulty; that is, calcination or reducing it by Art into a subtle powder; by which way and a vitreous commixture, Glasses are sometime made hereof, and it becomes the chiefest ground for artificial and factitious gemms. But the same way of solution is common also unto many Stones; and not onely Beryls and Cornelians, but Flints and Pebbles, are subject unto fusion, and will run like Glass in fire.

But Ice will dissolve in any way of heat, for it will dissolve with fire, it will colliquate in water, or warm oyl; nor doth it only submit unto an actual heat, but not endure the potential calidity of many waters. For it will presently dissolve in cold Aqua fortis, sp. of Vitriol, Salt, or Tartar, nor will it long continue its fixation in spirits of Wine, as may be observed in Ice injected therein.

Again, The concretion of Ice will not endure a dry attrition without liquation; for if it be rubbed long with a cloth, it melteth. But Crystal will calesie unto electricity, that is, a power to attract straws or light bodies, and convert the needle freely placed. Which is a declaration of very different parts, wherein we shall not inlarge, as having discoursed concerning such bodies in the Chap. of Electricks.
They are differenced by supernatation or floating upon water; for Crystal will sink in water, as carrying in its own bulk a greater ponderosity then the space in any water it doth occupy; and will therefore only swim in molten Metal and Quicksilver. But Ice will swim in water of what thinness soever; and though it sink in oyl, will float in spirits of Wine or Aqua vitae. And therefore it may swim in water, not only as being water it self, and in its proper place, but perhaps as weighing somewhat less then the water it possesseth. And therefore as it will not sink unto the bottom, so will it neither float above like lighter bodies, but being near in weight, lie superficially or almost horizontally unto it. And therefore also an Ice or congelation of Salt or Sugar, although it descend not unto the bottom, yet will it abate, and decline below the surface in thin water, but very sensibly in spirits of Wine. For Ice although it seemeth as transparent and compact as Crystal, yet is it short in either; for its atoms are not concreted into continuity, which doth diminish its translucency; it is also full of spumes and bubbles, which may abate its gravity. And therefore waters frozen in Pans, and open Glasses, after their dissolution do commonly leave a froth and spume upon them, which are caused by the airy parts diffused in the congealable mixture which uniting themselves and finding no passage at the surface, do elevate the mass, and make the liquor take up a greater place then before: as may be observed in Glasses filled with water, which being frozen, will seem to swell above the brim. So that if in this condensation any one affirmeth there is also some rarefaction, experience may assert it.

They are distinguished in substance of parts and the accidents thereof, that is, in colour and figure; for Ice
CHAP. I

is a similary body, and homogeneous concretion, whose material is properly water, and but accidentally exceeding the simplicity of that element. But the body of Crystal is mixed; its ingredients many, and sensibly containeth those principles into which mixt bodies are reduced. For beside the spirit and mercurial principle it containeth a sulphur or inflamable part, and that in no small quantity; for besides its Electrick attraction, which is made by a sulphureous effluvium, it will strike fire upon percussion like many other stones, and upon collision with Steel actively send forth its sparks, not much inferiourly unto a flint. Now such bodies as strike fire have sulphureous or ignitible parts within them, and those strike best, which abound most in them. For these scintillations are not the accension of the air, upon the collision of two hard bodies, but rather the inflamable effluencies or vitrified sparks discharged from the bodies collided. For Diamonds, Marbles, Heliotropes and Agaths, though hard bodies, will not readily strike fire with a steel, much less with one another: Nor a Flint so readily with a Steel, if they both be very wet, for then the sparks are sometimes quenched in their eruption.

It containeth also a salt, and that in some plenty, which may occasion its fragility, as is also observable in Coral. This by the Art of Chymistry is separable, unto the operations whereof it is liable, with other concretions, as calcination, reverberation, sublimation, distillation: And in the preparation of Crystal, Paracelsus hath made a rule for that of Gemms. Briefly, it consisteth of parts so far from an Icie dissolution, that powerful menstruums are made for its emollition; whereby it may receive the tincture of Minerals, and so resemble Gemms, as Boetius hath declared in the
distillation of Urine; spirits of Wine and Turpentine; and is not only triturable, and reducible into powder, by contrition, but will subsist in a violent fire, and endure a vitrification. Whereby are testified its earthy and fixed parts. For vitrification is the last work of fire, and a fusion of the Salt and Earth, which are the fixed elements of the composition, wherein the fusible Salt draws the Earth and infusible part into one continuum, and therefore ashes will not run from whence the Salt is drawn, as bone ashes prepared for the Test of Metals. Common fusion in Metals is also made by a violent heat, acting upon the volatile and fixed, the dry and humid parts of those bodies; which notwithstanding are so united, that upon attenuation from heat, the humid parts will not fly away, but draw the fixed ones into fluor with them. Ordinary liquation in wax and oily bodies is made by a gentler heat, where the oyl and salt, the fixed and fluid principles will not easily separate. All which, whether by vitrification, fusion or liquation, being forced into fluent consistencies, do naturally regress into their former solidities. Whereas the melting of Ice is a simple resolution, or return from solid to fluid parts, wherein it naturally resteth.

As for colour, although Crystal in his pellucid body seems to have none at all, yet in its reduction into powder, it hath a vail and shadow of blew; and in its courser pieces, is of a sadder hue then the powder of Venice glass; and this complexion it will maintain although it long endure the fire. Which notwithstanding needs not move us unto wonder; for vitrified and pellucid bodies, are of a clearer complexion in their continuities, then in their powders and Atomical divisions. So Stibium or glass of Antimony, appears
somewhat red in glass, but in its powder yellow; so painted glass of a sanguine red will not ascend in powder above a murrey.

As for the figure of Crystal (which is very strange, and forced *Pliny* to despair of resolution) it is for the most part hexagonal or six cornered; being built upon a confused matter, from whence as it were from a root angular figures arise, even as in the Amethyst and Basaltes. Which regular figuration hath made some opinion, it hath not its determination from circumscriptio, or as conforming unto contiguities, but rather from a seminal root, and formative principle of its own, even as we observe in several other concretions. So the stones which are sometime found in the gall of a man, are most triangular and pyramidal, although the figure of that part seems not to co-operate thereto. So the *Asteria* or *lapis stellaris*, hath on it the figure of a Star, so *Lapis Judaicus* hath circular lines in length all down its body, and equidistant, as though they had been turned by Art. So that we call a Fayrie stone, and is often found in *gravel pits* amongst us, being of an hemispherical figure, hath five double lines arising from the center of its basis, which if no accretion distract them, do commonly concur, and meet in the pole thereof. The figures are regular in many other stones, as in the Belemnites, *Lapis Anguinus, Cornu Amnonis*, and many more; as by those which have not the experience hereof may be observed in their figures expressed by Mineralogists. But Ice receiveth its figure according unto the surface wherein it concreteth, or the circumambiency which conformeth it. So it is plain upon the surface of water, but round in Hayl (which is also a glaciation,) and figured in its guttulous descent from the air, and so growing greater
or lesser according unto the accretion or pluvious aggelation about the mother and fundamental Atomes thereof; which seems to be some feathery particle of Snow; although Snow itself be sexangular, or at least of a starry and many-pointed figure.

They are also differenced in the places of their generation; for though Crystal be found in cold countries, and where Ice remaineth long, and the air exceedeth in cold, yet is it also found in regions, where Ice is seldom seen or soon dissolved; as Pliny and Agricola relate of Cyprus, Caramania and an Island in the Red sea; It hath been also found in the veins of Minerals, sometimes agglutinated unto lead, sometimes in Rocks, opacous stones, and the marble face of Octavius Duke of Parma. It hath also constant veins; as beside others, that of mount Salvino about the Territory of Bergamo; from whence if part be taken, in no long tract of time out of the same place, as from its mineral matrix, others are observed to arise. Which made the learned Cerautus to conclude, Videant hi an Mus. Ca-
sit glacies, an vero corpus fossile. It is also found in the veins of Minerals, in rocks, and sometime in common earth. But as for Ice, it will not readily concrete but in the approachment of the air, as we have made trial in glasses of water, covered an inch with oyl, which will not easily freeze in hard frosts of our climate. For water commonly concreteth first in its surface, and so conglaciates downward; and so will it do although it be exposed in the coldest metal of lead, which well accordeth with that expression of Job, The waters are chap. 38. hid as with a stone, and the face of the deep is frozen.

But whether water which hath been boiled or heated, doth sooner receive this congelation, as commonly is delivered, we rest in the experiment of Cabeus, who
hath rejected the same in his excellent discourse of Meteors.

They have contrary qualities elemental, and uses medicinal; for Ice is cold and moist, of the quality of water; but Crystal is cold and dry, according to the condition of earth. The use of Ice is condemned by most Physicians, that of Crystal commended by many. For although Dioscorides and Galen have left no mention thereof, yet hath Mathiolus, Agricola, and many commended it in dysenteries and fluxes; all for the increase of milk, most Chymists for the Stone, and some, as Brassavolus and Bextius, as an antidote against poysen. Which occult and specifical operations are not expectable from Ice; for being but water congealed, it can never make good such qualities; nor will it reasonably admit of secret proprieties, which are the affections of forms, and compositions at distance from their elements.

Having thus declared what Crystal is not, it may afford some satisfaction to manifest what it is. To deliver therefore what with the judgement of approved Authors, and best reason consisteth, It is a Mineral body in the difference of stones, and reduced by some unto that subdivision, which comprehendeth gemms, transparent and resembling Glass or Ice, made of a lentous percolation of earth, drawn from the most pure and limpid juice thereof, owing unto the coldness of the earth some concurrence or coadjuvancy, but not immediate determination and efficiency, which are wrought by the hand of its concretive spirit, the seeds of petrification and Gorgon of it self. As sensible Philosophers conceive of the generation of Diamonds, Iris, Berils. Not making them of frozen iccecles, or from meer aqueous and glaciable substances, condensing
them by frosts into solidities, vainly to be expected even from Polary congelations: but from thin and finest earths, so well contempered and resolved, that transparency is not hindred; and containing lapi-difical spirits, able to make good their solidities against the opposition and activity of outward contraries, and so leave a sensible difference between the bonds of glaciation, which in the mountains of Ice about the Northern Seas, are easily dissolved by ordinary heat of the Sun, and between the finer ligatures of petrification, whereby not only the harder concretions of Diamonds and Saphirs, but the softer veins of Crystal remain indissolvable in scorching Territories, and the Negro land of Congor.

And therefore I fear we commonly consider subter-ranities, not in contemplations sufficiently respective unto the Creation. For though Moses have left no mention of Minerals, nor made any other description then sutes unto the apparent and visible Creation, yet is there unquestionably, a very large Classis of Creatures in the Earth, far above the condition of elementarity. And although not in a distinct and indisputable way of vivency, or answering in all points the properties or affections of Plants, yet in inferiour and descending constitutions, they do like these contain specifical distinctions, and are determined by seminalities, that is, created and defined seeds committed unto the Earth from the beginning. Wherein although they attain not the indubitable requisites of Animation, yet have they a near affinity thereto. And though we want a proper name and expressive appellation, yet are they not to be closed up in the general name of concretions; or lightly passed over as only Elementary and Subterraneous mixtions.
The principle and most gemmary affection is its Tralucency: as for irradiancy or sparkling which is found in many gemms, it is not discoverable in this, for it cometh short of their compactness and durity: and therefore requireth not the Emery, as the Saphir, Granate, and Topaz, but will receive impression from Steel, in a manner like the Turchois. As for its diaphanity or perspicuity, it enjoyeth that most eminently; and the reason thereof is its continuity; as having its earthy and salinous parts so exactly of trans- resolved, that its body is left imporous and not discretioned by atomical terminations. For, that continuity of parts is the cause of perspicuity, it is made perspicuous by two ways of experiment. That is, either in effecting transparency in those bodies which were not so before, or at least far short of the additional degree: So Snow becomes transparent upon liquation, so Horns and Bodies resolvable into continued parts or gelly. The like is observable in oyled paper, wherein the interstitial divisions being continued by the accession of oyl, it becometh more transparent, and admits the visible rayes with less umbrosity. Or else the same is effected by rendring those bodies opacous, which were before pellucid and perspicuous.

So Glass which was before diaphanous, being by powder reduced into multiplicity of superficies, becomes an opacous body, and will not transmit the light. So it is in Crystal powdered, and so it is also before; for if it be made hot in a crucible, and presently projected upon water, it will grow dim, and abate its diaphanity; for the water entering the body, begets a division of parts, and a termination of Atoms united before unto continuity.

The ground of this Opinion might be, first the con-
clusions of some men from experience; for as much as Crystal is found sometimes in rocks, and in some places not much unlike the stirious or stillicidious dependencies of Ice. Which notwithstanding may happen either in places which have been forsaken or left bare by the earth, or may be petrifications, or Mineral indurations, like other gemms, proceeding from percolations of the earth disposed unto such concretions.

The second and most common ground is from the name Crystallus, whereby in Greek both Ice and Crystal are expressed; which many not duly considering, have from their community of name, conceived a community of nature; and what was ascribed unto the one, not unfitly appliable unto the other. But this is a fallacy of Equivocation, from a society in name inferring an Identity in nature. By this fallacy was he deceived that drank Aqua fortis for strong water. By this are they deluded, who conceive sperma Cæti which is found about the head, to be the spawn of the Whale: Or take sanguis draconis (which is the gumme of a tree,) to be the blood of a Dragon. By the same Logick we may infer, the Crystalline humour of the eye, or rather the Crystalline heaven above, to be of the substance of Crystal here below; Or that God sendeth down Crystal, because it is delivered in the vulgar translation, Psal. 47. Mittit Crystalhum suum sicut Buccellas. Which translation although it literally express the Septuagint; yet is there no more meant thereby, than what our translation in plain English expresseth; that is, he casteth forth his Ice like morsels, or what Tremellius and Junius as clearly deliver, Dejicit gelu suum sicut frusta, coram frigore ejus quis consistet? which proper and latine expressions, had they been observed in ancient translations, elder Expositors
had not been misguided by the Synonomy; nor had
they afforded occasion unto Austin, the Gloss, Lyranus,
and many others, to have taken up the common
conceit, and spoke of this Text conformably unto the
opinion rejected.

CHAPTER II
Concerning the Loadstone.

Of things particularly spoken thereof, evidently
or probably true. Of things generally
believed, or particularly delivered, manifestly or probably false. In the first of
the Magnetical vertue of the Earth, of the
four motions of the stone, that is, its Verti-
city or Direction, its Attraction or Coition,
its Declination, its Variation, and also of
its Antiquity. In the second a rejection
of sundry opinions and relations thereof,
Natural, Medical, Historical, Magical.

AND first we conceive the earth to be a Magnetical body. A Magnetical body, we term
not onely that which hath a power attractive,
but that which seated in a convenient medium,
naturally disposeth it self to one invariable and fixed
situation. And such a Magnetical vertue we conceive
to be in the Globe of the Earth, whereby as unto its
natural points and proper terms, it disposeth it self
unto the poles; being so framed, constituted, and
ordered unto these points, that those parts which are
now at the poles, would not naturally abide under
the Equator, nor Greenland remain in the place of Magellanica. And if the whole earth were violently removed, yet would it not foregoe its primitive points, nor pitch in the East or West, but return unto its polary position again. For though by compactness or gravity it may acquire the lowest place, and become the center of the universe, yet that it makes good that point, not varying at all by the accession of bodies upon, or secession thereof from its surface, perturbing the equilibration of either Hemisphere (whereby the altitude of the stars might vary) or that it strictly maintains the North and Southern points; that neither upon the motions of the heavens, air, and winds without, large eruptions and division of parts within, its polary parts should never incline or veer unto the Equator (whereby the latitude of places should also vary) it cannot so well be salved from gravity as a Magnetical verticity. This is probably, that founda-
nation the wisdom of the Creator hath laid unto the earth; in this sense we may more nearly apprehend, and sensibly make out the expressions of holy Scripture, as Firmavit orbem terræ qui non commovebitur, he hath made the round world so sure that it cannot be moved: as when it is said by Job, Extendit Aquilonem super Job 38. vacuo, &c. He stretcheth forth the North upon the empty place, and hangeth the earth upon nothing. And this is the most probable answer unto that great question. Whereupon are the foundations of the Earth fastened, or who laid the corner stone thereof? Had they been acquainted with this principle, Anaxa-
goras, Socrates, and Democritus, had better made out the ground of this stability; Xenophanes had not been fain to say the Earth had no bottom; and Thales Milesius to make it swim in water.
Nor is the vigour of this great body included only in its self, or circumferenced by its surface, but diffused at indeterminate distances through the air, water, and all bodies circumjacent. Exciting and impregnating Magnetical bodies within its surface or without it, and performing in a secret and invisible way what we evidently behold effected by the Loadstone. For these effluxions penetrate all bodies, and like the species of visible objects are ever ready in the medium, and lay hold on all bodies proportionate or capable of their action, those bodies likewise being of a congenerous nature, do readily receive the impressions of their motor; and if not fettered by their gravity, conform themselves to situations, wherein they best unite unto their Animator. And this will sufficiently appear from the observations that are to follow, which can no better way be made out then by this we speak of, the Magnetical vigour of the Earth. Now whether these effluviums do flye by striated Atoms and winding particles as Renatus des Cartes conceiveth; or glide by streams attracted from either Pole and Hemisphere of the Earth unto the Equator, as Sir Kenelm Digby excellently declareth, it takes not away this vertue of the Earth, but more distinctly sets down the gests and progress thereof, and are conceits of eminent use to salve Magnetical Phenomena's. And as in Astronomy those hypotheses though never so strange are best esteemed which best do salve apparencies; so surely in Philosophy those principles (though seeming monstrous) may with advantage be embraced, which best confirm experiment, and afford the readiest reason of observa-

cation. And truly the doctrine of effluxions, their penetr-ating natures, their invisible paths, and insuspected effects, are very considerable; for besides this Mag-
netical one of the Earth, several effusions there may be from divers other bodies, which invisibly act their parts at any time, and perhaps through any medium; a part of Philosophy but yet in discovery, and will, I fear, prove the last leaf to be turned over in the Book of Nature.

First, Therefore it is true, and confirmable by every experiment, that Steel and good Iron never excited by the Loadstone, discover in themselves a verticity; that is, a directive or polary faculty, whereby, conveniently placed, they do Septentrionate at one extrem, and Australize at another. This is manifestable in long and thin plates of Steel perforated in the middle and equilibrated; or by an easier way in long wires equiponderate with untwisted Silk and soft Wax; for in this manner pendulous, they will conform themselves Meridionally, directing one extrem unto the North, another to the South. The same is also manifest in Steel wires thrust through little spheres or globes of Cork and floated on the water, or in naked Needles gently let fall thereon; for so disposed they will not rest, until they have found out the Meridian, and as near as they can lye parallel unto the Axis of the Earth: Sometimes the eye, sometimes the point Northward in divers Needles, but the same point always in most: Conforming themselves unto the whole Earth, in the same manner as they do unto every Loadstone. For if a Needle untoucht be hanged above a Loadstone, it will convert into a parallel position thereto; for in this situation it can best receive its verticity and be excited proportionally at both extrems. Now this direction proceeds not primitively from themselves, but is derivative and contracted from the Magnetical effluxions of the Earth; which they have winded in their hammering and formation; or
else by long continuance in one position, as we shall declare hereafter.

It is likewise true what is delivered of Irons heated in the fire, that they contract a verticity in their refrigeration; for heated red hot and cooled in the Meridian from North to South, they presently contract a polary power, and being poised in air or water, convert that part unto the North which respected that point in its refrigeration, so that if they had no sensible verticity before, it may be acquired by this way; or if they had any, it might be exchanged by contrary position in the cooling. For by the fire they omit not onely many drossie and scorious parts, but whatsoever they had received either from the Earth or Loadstone; and so being naked and despoiled of all verticity, the Magnetical Atomes invade their bodies with more effect and agility.

Neither is it only true what Gilbertus first observed, that Irons refrigerated North and South acquire a Directive faculty; but if they be cooled upright and perpendicularly, they will also obtain the same. That part which is cooled toward the North on this side the Equator, converting it self unto the North, and attracting the South point of the Needle: the other and highest extream respecting the South, and attracting the Northern, according unto Laws Magnetical: For (what must be observed) contrary Poles or faces attract each other, as the North the South; and the like decline each other, as the North the North. Now on this side of the Equator, that extream which is next the Earth is animated unto the North, and the contrary unto the South; so that in coition it applies it self quite oppositely, the coition or attraction being contrary to the Verticity or Direction. Contrary, If we
speak according unto common use, yet alike, if we conceive the vertue of the North Pole to diffuse it self and open at the South, and the South at the North again.

This polarity from refrigeration upon extremity and in defect of a Loadstone might serve to invigorate and touch a Needle any where; and this, allowing variation, is also the readiest way at any season to discover the North or South; and surely far more certain then what is affirmed of the grains and circles in trees, or the figure in the root of Fern. For if we erect a red hot wire until it cool, then hang it up with wax and untwisted Silk, where the lower end and that which cooled next the earth doth rest, that is the Northern point; and this we affirm will still be true whether it be cooled in the air or extinguished in water, oyl of Vitriol, Aqua fortis, or Quicksilver. And this is also evidenced in culinary utensils and Irons that often feel the force of fire, as Tongs, Fire-shovels, Prongs, and Andirons; all which acquire a Magnetical and polary condition, and being suspended, convert their lower extremes unto the North; with the same attracting the Southern point of the Needle. For easier experiment, if we place a Needle touched at the foot of Tongs or Andirons, it will obvert or turn aside its lillie or North point, and conform its cuspis or South extream unto the Andiron. The like verticity though more obscurely is also contracted by Bricks and Tiles, as we have made trial in some taken out of the backs of chimneys. Now to contract this Direction, there needs not a total ignition, nor is it necessary the Irons should be red hot all over. For if a wire be heated only at one end, according as that end is cooled upward or downward, it respectively acquires a verti-
Nor is it absolutely requisite they should be cooled perpendicularly, or strictly lie in the Meridian; for whether they be refrigerated inclinatorily or somewhat æquinoxially, that is toward the Eastern or Western points; though in a lesser degree, they discover some verticity.

Nor is this onely true in Irons, but in the Loadstone it self. For if a Loadstone be made red hot, it loseth the magnetical vigour it had before in it self, and acquires another from the Earth in its refrigeration; for that part which cooleth toward the Earth will acquire the respect of the North, and attract the Southern point or cuspis of the Needle. The experiment hereof we made in a Loadstone of a parallelogram or long square figure; wherein onely inverting the extreams, as it came out of the fire, we altered the poles or faces thereof at pleasure.

It is also true what is delivered of the Direction and coition of Irons, that they contract a verticity by long and continued position: that is, not onely being placed from North to South, and lying in the Meridian, but respecting the Zenith and perpendicular unto the Center of the Earth; as is manifest in bars of windows, casements, hinges and the like. For if we present the Needle unto their lower extreams, it wheels about and turns its Southern point unto them. The same condition in long time do Bricks contract which are placed in walls, and therefore it may be a fallible way to find out the Meridian by placing the Needle on a wall; for some Bricks therein by a long and continued position, are often magnetically enabled to distract the polarity of the Needle. And therefore those Irons which are said to have been converted into Loadstones; whether they
were real conversions, or onely attractive augmentations, might be much promoted by this position: as the Iron cross of an hundred weight upon the Church of St. John in Ariminum, or that Loadston’d Iron of Caesar Moderatus, set down by Aldrovandus.

Lastly, Irons do manifest a verticity not only upon refrigeration and constant situation, but (what is wonderful and advanceth the magnetical Hypothesis) they evidence the same by meer position according as they are inverted, and their extrems disposed respectively unto the Earth. For if an Iron or Steel not firmly excited, be held perpendicularly or inclinatorily unto the Needle, the lower end thereof will attract the cuspis or Southern point; but if the same extream be inverted and held under the Needle, it will then attract the lilly or Northern point; for by inversion it changeth its direction acquired before, and receiveth a new and Southern polarity from the Earth, as being the upper extream. Now if an Iron be touched before, it varieth not in this manner; for then it admits not this magnetical impression, as being already informed by the Loadstone, and polarily determined by its preaction.

And from these grounds may we best determine why the Northern Pole of the Loadstone attracteth a greater weight than the Southern on this side the Æquator; why the stone is best preserved in a natural and polary situation; and why as Gilbertus observeth, it respecteth that Pole out of the Earth, which it regarded in its Mineral bed and subterraneous position.

It is likewise true and wonderful what is delivered of the Inclination or Declination of the Loadstone; that is, the descent of the Needle below the plain of the Horizon. For long Needles which stood before upon their axis, parallel unto the Horizon, being
vigorously excited, incline and bend downward, depressing the North extrem below the Horizon. That is the North on this, the South on the other side of the Equator; and at the very Line or middle circle stand without deflexion. And this is evidenced not only from observations of the Needle in several parts of the earth, but sundry experiments in any part thereof, as in a long Steel wire, equilibrated or evenly ballanced in the air; for excited by a vigorous Loadstone it will somewhat depress its animated extrem, and intersect the horizontal circumference. It is also manifest in a Needle pierced through a Globe of Cork so cut away and pared by degrees, that it will swim under water, yet sink not unto the bottom, which, may be well effected; for if the Cork be a thought too light to sink under the surface, the body of the water may be attenuated with spirits of wine; if too heavy, it may be incrassated with salt; and if by chance too much be added, it may again be thinned by a proportionable addition of fresh water. If then the Needle be taken out, actively touched and put in again, it will depress and bow down its Northern head toward the bottom, and advance its Southern extremity toward the brim. This way invented by Gilbertus may seem of difficulty; the same with less labour may be observed in a needled sphere of Cork equally contiguous unto the surface of the water; for if the Needle be not exactly equiponderant, that end which is a thought too light, if touched becometh even; that Needle also which will but just swim under the water, if forcibly touched will sink deeper, and sometime unto the bottom. If likewise that inclinatory vertue be destroyed by a touch from the contrary Pole, that end which before was elevated will then decline, and this
perhaps might be observed in some scales exactly ballanced, and in such Needles which for their bulk can hardly be supported by the water. For if they be powerfully excited and equally let fall, they commonly sink down and break the water at that extrem whereat they were septentrionally excited: and by this way it is conceived there may be some fraud in the weighing of precious commodities, and such as carry a value in quarter-grains; by placing a powerful Loadstone above or below, according as we intend to depress or elevate one extrem.

Now if these Magnetical emissions be onely qualities, and the gravity of bodies incline them onely unto the earth; surely that which alone moveth other bodies to descent, carrieth not the stroak in this, but rather the Magnetical alliciency of the Earth; unto which with alacrity it applieth it self, and in the very same way unto the whole Earth, as it doth unto a single Loadstone. For if an untouched Needle be at a distance suspended over a Loadstone, it will not hang parallel, but decline at the North extrem, and at that part will first salute its Director. Again, what is also wonderful, this inclination is not invariable; for just under the line the Needle lieth parallel with the Horizon, but sailing North or South it beginneth to incline, and encreaseth according as it approacheth unto either Pole; and would at last endeavour to erect it self. And this is no more then what it doth upon the Loadstone, and that more plainly upon the Terrella or spherical magnet Cosmographically set out with circles of the Globe. For at the Equator thereof, the Needle will stand rectangularly; but approaching Northward toward the Tropick it will regard the stone obliquely, and when it attaineth the Pole, directly;
and if its bulk be no impediment, erect it self and stand perpendicularly thereon. And therefore upon strict observation of this inclination in several latitudes and due records preserved, instruments are made whereby without the help of Sun or Star, the latitude of the place may be discovered; and yet it appears the observations of men have not as yet been so just and equal as is desirable; for of those Tables of declination which I have perused, there are not any two that punctually agree; though some have been thought exactly calculated, especially that which Ridley received from Mr. Briggs, in our time Geometry Professor in Oxford.

It is also probable what is delivered concerning the variation of the Compass that is the cause and ground thereof, for the manner as being confirmed by observation we shall not at all dispute. The variation of the Compass is an Arch of the Horizon intercepted between the true and Magnetical Meridian; or more plainly, a deflexion and siding East and West from the true Meridian. The true Meridian is a major Circle passing through the Poles of the World, and the Zenith or Vertex of any place, exactly dividing the East from the West. Now on this line the Needle exactly lieth not, but diverts and varieth its point, that is, the North point on this side the Equator, the South on the other; sometimes on the East, sometime toward the West, and in some few places varieth not at all. First, therefore it is observed that betwixt the Shore of Ireland, France, Spain, Guiny, and the Azores, the North point varieth toward the East, and that in some variety; at London it varieth eleven degrees, at Antwerp nine, at Rome but five: at some parts of the Azores it deflecteth not, but lieth in the true Meridian; on the other side of the Azores, and this side of the Equator, the North
point of the Needle wheeleth to the West; so that in
the latitude of 36 near the shore, the variation is about
eleven degrees; but on the other side the Equator, it
is quite otherwise: for about Capio Frio in Brasilia,
the South point varieth twelve degrees unto the West,
and about the mouth of the Straits of Magellan five or
six; but elongating from the coast of Brasilia toward
the shore of Africa it varieth Eastward, and arriving
at Capo de las Agullas, it resteth in the Meridian, and
looketh neither way.

Now the cause of this variation was thought by
Gilbertus to be the inequality of the Earth, variously
disposed, and indifferently intermixed with the Sea:
withal the different dispose of its Magnetical vigor
in the eminencies and stronger parts thereof. For the
Needle naturally endeavours to conform unto the
Meridian, but being distracted, driveth that way
where the greater and powerfuller part of the Earth is
placed. Which may be illustrated from what hath
been delivered and may be conceived by any that
understands the generalities of Geography. For
whereas on this side the Meridian, or the Isles of
Azores, where the first Meridian is placed, the Needle
varieth Eastward; it may be occasioned by that vast
Tract of Earth, that is, of Europe, Asia, and Africa,
seated toward the East, and disposing the Needle that
way. For arriving at some part of the Azores, or
Islands of Saint Michael, which have a middle situation
between these Continents, and that vast and almost
answerable Tract of America, it seemeth equally dis-
tracted by both; and diverting unto neither, doth
parallel and place it self upon the true Meridian. But
sailing farther, it veers its Lilly to the West, and
regardeth that quarter wherein the Land is nearer or
greater; and in the same latitude as it approacheth the shore augmenteth its variation. And therefore as some observe, if *Columbus* or whosoever first discovered *America*, had apprehended the cause of this variation, having passed more then half the way, he might have been confirmed in the discovery, and assuredly foretold there lay a vast and mighty continent toward the West. The reason I confess and inference is good, but the instance perhaps not so. For *Columbus* knew not the variation of the compass, whereof *Sebastian Cabot* first took notice, who after made discovery in the Northern part of that continent. And it happened indeed that part of *America* was first discovered, which was on this side farthest distant, that is, *Jamaica, Cuba*, and the Isles in the Bay of *Mexico*. And from this variation do some new discoverers deduce a probability in the attempts of the Northern passage toward the *Indies*.

Now because where the greater continents are joyned, the action and effluence is also greater; therefore those Needles do suffer the greatest variation which are in Countries which most do feel that action. And therefore hath *Rome* far less variation then *London*; for on the West side of *Rome* are seated the great continents of *France, Spain, Germany*, which take off the exuperance, and in some way ballance the vigor of the Eastern parts. But unto *England* there is almost no Earth West, but the whole extent of *Europe* and *Asia* lieth Eastward; and therefore at *London* it varieth eleven degrees, that is almost one *Rhomb*. Thus also by reason of the great continent of *Brasilia, Peru*, and *Chili*, the Needle deflecteth toward the Land twelve degrees; but at the straits of *Magellan* where the Land is narrowed, and the Sea on the other side, it
varieth but five or six. And so likewise, because the Cape de las Agullas hath Sea on both sides near it, and other Land remote, and as it were æquidistant from it, therefore at that point the Needle conforms unto the true Meridian, and is not distracted by the vicinity of Adjacencies. This is the general and great cause of variation. But if in certain Creeks and Vallies the Needle prove irregular, and vary beyond expectation, it may be imputed unto some vigorous part of the Earth, or Magnetical eminence not far distant. And this was the invention of D. Gilbert, not many years past, a Physician in London. And therefore although some assume the invention of its direction, and other have had the glory of the Card; yet in the experiments, grounds, and causes thereof, England produced the Father Philosopher, and discovered more in it then Columbus or Americus did ever by it.

Unto this in great part true the reason of Kircherus may be added: That this variation proceedeth not only from terrestrious eminencies, and magnetical veins of the Earth, laterally respecting the Needle, but the different coagmentation of the Earth disposed unto the Poles, lying under the Sea and Waters, which affect the Needle with great or lesser variation, according to the vigour or imbecility of these subterraneous lines, or the entire or broken compagation of the magnetical fabrick under it. As is observable from several Loadstones placed at the bottom of any water, for a Loadstone or Needle upon the surface, will variously conform it self, according to the vigour or faintness of the Loadstones under it.

Thus also a reason may be alledged for the variation of the variation, and why, according to observation, the variation of the Needle hath after some years been
found to vary in some places. For this may proceed from mutations of the earth, by subterraneous fires, fumes, mineral spirits, or otherwise; which altering the constitution of the magnetical parts, in process of time, doth vary the variation over the place.

It is also probable what is conceived of its Antiquity, that the knowledge of its polary power and direction unto the North was unknown unto the Ancients; and though Levinus Lemnius, and Calius Colcagninus, are of another belief, is justly placed with new inventions by Pancirollus. For their Achilles and strongest argument is an expression in Plautus, a very Ancient author, and contemporary unto Ennius. *Hic ventus jam secundus est, cape modo versoriam.* Now this versoriam they construe to be the compass, which notwithstanding according unto Pineda, who hath discussed the point, Turnebus, Cabeus, and divers others, is better interpreted the rope that helps to turn the Ship, or as we say, doth make it tack about; the Compass declaring rather the Ship is turned, then conferring unto its conversion. As for the long expeditions and sundry voyages of elder times, which might confirm the Antiquity of this invention, it is not improbable they were performed by the help of Stars; and so might the Phœnecian navigators, and also Ulisses sail about the Mediterranean, by the flight of Birds, or keeping near the shore; and so might Hanno coast about Africa; or by the help of Oars, as is expressed in the voyage of Jonah. And whereas it is contended that this verticity was not unknown unto Solomon, in whom is presumed an universality of knowledge; it will as forcibly follow, he knew the Art of Typography, Powder and Guns, or had the Philosophers Stone, yet sent unto Ophir for Gold. It is not to be denied, that
beside his Political wisdom, his knowledge in Philosophy was very large; and perhaps from his works therein, the ancient Philosophers, especially Aristotle, who had the assistance of Alexanders acquirements, collected great observables. Yet if he knew the use of the Compass, his Ships were surely very slow, that made a three years voyage from Eziongeber in the red Sea unto Ophir; which is supposed to be Taprobana or Malaca in the Indies, not many moneths sail; and since in the same or lesser time, Drake and Candish performed their voyage about the Earth.

And as the knowledge of its verticity is not so old as some conceive, so it is more ancient then most believe; nor had its discovery with Guns, Printing, or as many think, some years before the discovery of America. For it was not unknown unto Petrus Peregrinus a Frenchman, who two hundred years since left a Tract of the Magnet, and a perpetual motion to be made thereby, preserved by Gasserus. Paulus Venetus, and about five hundred years past Albertus Magnus make mention hereof, and quote for it a Book of Aristotle, De Lapide; which Book although we find in the Catalogue of Laertius, yet with Cabeus we may rather judge it to be the work of some Arabick Writer, not many years before the days of Albertus.

Lastly, It is likewise true what some have delivered of Crocus Martis, that is, Steel corroded with Vinegar, Sulphur, or otherwise, and after reverberated by fire. For the Loadstone will not at all attract it, nor will it adhere, but lye therein like Sand. This to be understood of Crocus Martis well reverberated, and into a violet colour: for common chalybs præparatus, or corroded and powdered Steel, the Loadstone attracts like ordinary filings of Iron; and many times most of
that which passeth for *Crocus Martis*. So that this way may serve as a test of its preparation; after which it becometh a very good medicine in fluxes. The like may be affirmed of flakes of Iron that are rusty and begin to tend unto Earth; for their cognition then expireth, and the Loadstone will not regard them.

And therefore this may serve as a trial of good Steel. The Loadstone taking up a greater mass of that which is most pure, it may also decide the conversion of Wood into Iron, as is pretended from some Waters: and the common conversion of Iron into Copper by the mediation of blew Coperose, for the Loadstone will not attract it. Although it may be questioned, whether in this operation, the Iron or Coperose be transmuted, as may be doubted from the cognition of Coperose with Copper; and the quantity of Iron remaining after the conversion. And the same may be useful to some discovery concerning Vitriol or Coperose of Mars, by some called Salt of Steel, made by the spirits of Vitriol or Sulphur. For the corroded powder of Steel will after ablution be actively attracted by the Loadstone, and also remaineth in little diminished quantity. And therefore whether those shooting Salts partake but little of Steel, and be not rather the vitriolous spirits fixed into Salt by the effluvium or odor of Steel, is not without good question.
Concerning the Loadstone, therein of sundry common Opinions, and received several relations: Natural, Historical, Medical, Magical.

And first not only a simple Heterodox, but a very hard Paradox, it will seem, and of great absurdity unto obstinate ears, if we say, attraction is unjustly appropriated unto the Loadstone, and that perhaps we speak not properly, when we say vulgarly and appropriately the Loadstone draweth Iron; and yet herein we should not want experiment and great authority. The words of Renatus des Cartes in his Principles of Philosophy are very plain. Præterea magnes trahet ferrum, sive potius magnes & ferrum ad invicem accedunt, neque enim ulla ibi tractio est. The same is solemnly determined by Cabeus. Nec magnes trahit proprie ferrum, nec ferrum ad se magnetem provocat, sed ambo pari conatu ad invicem confluent. Concordant hereto is the assertion of Doctor Ridley, Physitian unto the Emperour of Russia, in his Tract of Magnetical Bodies, defining Magnetical attraction to be a natural incitation and disposition conforming unto contiguity, an union of one Magnetical Body with another, and no violent haling of the weak unto the stronger. And this is also the doctrine of Gilbertus, by whom this motion is termed Coition, and that not made by any faculty attractive of one, but a Syndrome and concourse of each; a Coition alway of their vigours, and also of their bodies, if bulk or impediment prevent not. And
therefore those contrary actions which flow from opposite Poles or Faces, are not so properly expulsion and attraction, as Sequela and Fuga, a mutual flight and following. Consonant whereto are also the determination of Helmontius, Kircherus, and Licetus.

The same is also confirmed by experiment; for if a piece of Iron be fastened in the side of a bowl or basin of water, a Loadstone swimming freely in a Boot of Cork, will presently make unto it. So if a Steel or Knife untouched, be offered toward the Needle that is touched, the Needle nimbly moveth toward it, and conformeth unto union with the Steel that moveth not. Again, If a Loadstone be finely filed, the Atoms or dust thereof will adhere unto Iron that was never touched, even as the powder of Iron doth also unto the Loadstone. And lastly, if in two Skiffs of Cork, a Loadstone and Steel be placed within the Orb of their activities, the one doth not move the other standing still, but both hoise sail and steer unto each other. So that if the Loadstone attract, the Steel hath also its attraction; for in this action the Alliciency is reciprocal, which joyntly felt, they mutually approach and run into each others arms.

And therefore surely more moderate expressions become this action, then what the Ancients have used, which some have delivered in the most violent terms of their language; so Austin calls it, Mirabilem ferri raptorem: Hippocrates λίθος τὸν σίδηρον ἀρπάζει, Λαπις qui ferrum rapit. Galen disputing against Epicurus useth the term ἔλκειν, but this also is too violent: among the Ancients Aristotle spake most warily, ὅστις τὸν σίδηρον κινεῖ, Λαπις qui ferrum movet: and in some tolerable acception do run the expressions of Aquinas, Scaliger and Cusanus.
Many relations are made, and great expectations are raised from the *Magnes Carneus*, or a Loadstone, that hath a faculty to attract not only iron but flesh; but this upon enquiry, and as *Cabeus* also observed, is nothing else but a weak and inanimate kind of Loadstone, veined here and there with a few magnetic and ferreous lines; but consisting of a bolary and clammy substance, whereby it adheres like *Hematites*, or *Terra Lemnia*, unto the Lips. And this is that stone which is to be understood, when Physitians joyn it with *Aetites*, or the Eagle stone, and promise therein a vertue against abortion.

There is sometime a mistake concerning the variation of the Compass, and therein one point is taken for another. For beyond that Equator some men account its variation by the diversion of the Northern point, whereas beyond that Circle the Southern point is Sovereign, and the North submits his preheminency. For in the Southern coast either of *America* or *Africa*, the Southern point deflects and varieth toward the Land, as being disposed and spirited that way by the Meridional and proper Hemisphere. And therefore on that side of the Earth the varying point is best accounted by the South. And therefore also the writings of some, and Maps of others, are to be enquired, that make the Needle decline unto the East twelve degrees at *Capo Frio*, and six at the straits of *Magellan*; accounting hereby one point for another, and preferring the North in the Liberties and Province of the South.

But certainly false it is what is commonly affirmed and believed, that Garlick doth hinder the attraction of the Loadstone, which is notwithstanding delivered by grave and worthy Writers, by *Pliny, Solinus, Ptolomy, Plutarch, Albertus, Mathiolus, Rueus, Langius,*
and many more. An effect as strange as that of Homers Moly, and the Garlick that Mercury bestowed upon Ulysses. But that it is evidently false, many experiments declare. For an Iron wire heated red hot and quenched in the juice of Garlick, doth notwithstanding contract a verticity from the Earth, and attracteth the Southern point of the Needle. If also the tooth of a Loadstone be covered or stuck in Garlick, it will notwithstanding attract; and Needles excited and fixed in Garlick until they begin to rust, do yet retain their attractive and polary respects.

Nor yet the Adamant or Diamond.

Of the same stamp is that which is obtruded upon us by Authors ancient and modern, that an Adamant or Diamond prevents or suspends the attraction of the Loadstone: as is in open terms delivered by Pliny. Adamas dissidet cum Magnete lapide, ut juxta positus ferrum non patiatur abstrahi, aut si admotus magnes, apprehenderit, rapiat atque auferat. For if a Diamond be placed between a Needle and a Loadstone, there will nevertheless ensue a Coition even over the body of the Diamond. And an easie matter it is to touch or excite a Needle through a Diamond, by placing it at the tooth of a Loadstone; and therefore the relation is false, or our estimation of these gemms untrue; nor are they Diamonds which carry that name amongst us.

De generatione rerum.

It is not suddenly to be received what Paracelsus affirmeth, that if a Loadstone be anointed with Mercurial oyl, or onely put into Quicksilver, it omitteth its attraction for ever. For we have found that Loadstones and touched Needles which have laid long time in Quicksilver have not amitted their attraction. And we also find that red hot Needles or wires extinguished in Quicksilver, do yet acquire a verticity according to the Laws of position in extinction. Of greater repug-
nancy unto reason is that which he delivers concerning its graduation, that heated in fire and often extinguished in oyl of Mars or Iron, it acquires an ability to extract or draw forth a nail fastened in a wall; for, as we have declared before, the vigor of the Loadstone is destroyed by fire, nor will it be re-impregnated by any other Magnete then the Earth.

Nor is it to be made out what seemeth very plausible, and formerly hath deceived us, that a Loadstone will not attract an Iron or Steel red hot. The falsity hereof discovered first by Kircherus, we can confirm by iterated experiment; very sensibly in armed Loadstones, and obscurely in any other.

True it is, that besides fire some other wayes there are of its destruction, as Age, Rust; and what is least dreamt on, an unnatural or contrary situation. For being impolarily adjoyned unto a more vigorous Loadstone, it will in a short time enchange its Poles; or being kept in undue position, that is, not lying on the Meridian, or else with its poles inverted, it receives in longer time impair in activity, exchange of Faces; and is more powerfully preserved by position then by the dust of Steel. But the sudden and surest way is fire; that is, fire not onely actual but potential; the one surely and suddenly, the other slowly and imperfectly; the one changing, the other destroying the figure. For if distilled Vinegar or Aqua fortis be poured upon the powder of Loadstone, the subsiding powder dried, retains some Magnetical vertue, and will be attracted by the Loadstone: but if the menstruum or dissolvent be evaporated to a consistence, and afterward doth shoot into Icycles or Crystals, the Loadstone hath no power upon them; and if in a full dissolution of Steel a separation of parts be made by precipitation or
exhalation, the exsiccated powder hath lost its wings and ascends not unto the Loadstone. And though a Loadstone fired doth presently omit its proper vertue, and according to the position in cooling contracts a new verticity from the Earth; yet if the same be laid awhile in aqua fortis or other corrosive water, and taken out before a considerable corrosion, it still reserves its attraction, and will convert the Needle according to former polarity. And that duly preserved from violent corrosion, or the natural disease of rust, it may long conserve its vertue, beside the Magnetical vertue of the Earth, which hath lasted since the Creation, a great example we have from the observation of our learned friend Mr. Graves, in an Ægyptian Idol cut out of Loadstone, and found among the Mummies; which still retains its attraction, though probably taken out of the Mine about two thousand years ago.

It is improbable what Pliny affirmeth concerning the object of its attraction, that it attracts not only ferreous bodies, but also liquorem vitri; for in the body of Glass there is no ferreous or magnetical nature which might occasion attraction. For of the Glass we use, the purest is made of the finest sand and the ashes of Chali or Glaswort, and the courser or green sort of the ashes of Brake or other plants. True it is that in the making of Glass, it hath been an ancient practice to cast in pieces of magnet, or perhaps manganes: conceiving it carried away all ferreous and earthy parts, from the pure and running portion of Glass, which the Loadstone would not respect; and therefore if that attraction were not rather Electrical then Magnetical, it was a wondrous effect what Helmont delivereth concerning a Glass wherein the Magistery of Loadstone was prepared, which after retained an attractive quality.
But whether the Magnet attracteth more then common Iron, may be tried in other bodies. It seems to attract the Smyris or Emery in powder; It draweth the shining or glassie powder brought from the Indies, and usually implied in writing-dust. There is also in Smiths Cinders by some adhesion of Iron whereby they appear as it were glazed, sometime to be found a magnetical operation; for some thereof applied have power to move the Needle. But whether the ashes of vegetables which grow over Iron Mines contract a magnetical quality, as containing some mineral particles, which by sublimation ascend unto their Roots, and are attracted together with their nourishment; according as some affirm from the like observations upon the Mines of Silver, Quick silver, and Gold, we must refer unto further experiment.

It is also improbable and something singular what some conceive, and *Eusebius Nierembergius*, a learned Jesuit of *Spain* delivers, that the body of man is magnetical, and being placed in a Boat, the Vessel will never rest untill the head respecteth the North. If this be true, the bodies of Christians do lye unnaturally in their Graves. King *Cheops* in his Tomb, and the *Jews* in their beds have fallen upon the natural position: who reverentially declining the situation of their Temple, nor willing to lye as that stood, do place their Beds from North to South, and delight to sleep Meridionally. This Opinion confirmed would much advance the Microcosmical conceit, and commend the Geography of *Paracelsus*, who according to the Cardinal points of the World divideth the body of man; and therefore working upon humane ordure, and by long preparation rendring it odoriferous, he terms it *Zibeta Occidentalis*, *Western Civet*; making the face the East,
but the posteriours the America or Western part of his Microcosm. The verity hereof might easily be tried in Wales, where there are portable Boats, and made of Leather, which would convert upon the impulse of any verticity; and seem to be the same whereof in his description of Britain Cæsar hath left some mention.

Another kind of verticity, is that which Angelus doce mihi jus, alias, Michael Sundevogis, in a Tract De Sulphure, discovereth in Vegetables, from sticks let fall or depressed under water; which equally framed and permitted unto themselves, will ascend at the upper end, or that which was vertical in their vegetation; wherein notwithstanding, as yet, we have not found satisfaction. Although perhaps too greedy of Magnalities, we are apt to make but favourable experiments concerning welcome Truths, and such desired verities.

It is also wondrous strange what Lælius Bisciola reporteth, that if unto ten ounces of Loadstone one of Iron be added, it encreaseth not unto eleven, but weighs ten ounces still. A relation inexcusable in a work of leisurable hours: the examination being as ready as the relation, and the falsity tried as easily as delivered. Nor is it to be omitted what is taken up by the Cæsius Bernardus a late Mineralogist, and originally confirmed by Porta, that Needles touched with a Diamond contract a verticity, even as they do with a Loadstone, which will not consist with experiment. And therefore, as Gilbertus observeth, he might be deceived, in touching such Needles with Diamonds, which had a verticity before, as we have declared most Needles to have; and so had he touched them with Gold or Silver, he might have concluded a magnetical vertue therein.
In the same form may we place Fracastorius his attraction of silver, Philostratus his Pantarbes, Apollo- dorus and Beda his relation of the Loadstone that attracted onely in the night. But most inexcusable is Franciscus Rueus, a man of our own profession; who in his discourse of Gemms mentioned in the Apocalypsy, undertakes a Chapter of the Loadstone. Wherein substantially and upon experiment he scarce delivereth any thing: making long enumeration of its traditional qualities, whereof he seemeth to believe many, and some above convicted by experience, he is fain to salve as impostures of the Devil. But Bætius de Boot Physitian unto Rodulphus the second, hath recom- penced this defect; and in his Tract De Lapidibus & Gemmis, speaks very materially hereof; and his Discourse is consonant unto Experience and Reason.

As for Relations Historical, though many there be of less account, yet two alone deserve consideration: The first concerneth magnetical Rocks, and attractive Mountains in several parts of the Earth. The other the Tomb of Mahomet and bodies suspended in the air. Of Rocks magnetical there are likewise two relations; for some are delivered to be in the Indies, and some in the extremity of the North, and about the very Pole. The Northern account is commonly ascribed unto Olaus Magnus Archbishop of Upsale, who out of his Predecessor Joannes, Saxo, and others, compiled a History of some Northern Nations; but this assertion we have not discovered in that Work of his which commonly passeth amongst us, and should believe his Geography herein no more then that in the first line of his Book; when he affirmeth that Biarmia (which is not seventy degrees in latitude) hath the Pole for its Zenith, and Equinoctial for the Horizon.
CHAP. III. Now upon this foundation, how uncertain soever
 men have erected mighty illations, ascribing thereto
 the cause of the Needles direction, and conceiving the
 effusions from these Mountains and Rocks invite
 the Lilly toward the North. Which conceit though
 countenanced by learned men, is not made out either
 by experience or reason, for no man hath yet attained
 or given a sensible account of the Pole by some
 degrees. It is also observed the Needle doth very
 much vary as it approacheth the Pole; whereas were
 there such direction from the Rocks, upon a nearer
 approachment it would more directly respect them.
 Beside, were there such magnetical Rocks under the
 Pole, yet being so far removed they would produce no
 such effect. For they that sail by the Isle of Ilua now
called Elba in the Tuscan Sea which abounds in veins
of Loadstone, observe no variation or inclination of
the Needle; much less may they expect a direction
from Rocks at the end of the Earth. And lastly, men
that ascribe thus much unto Rocks of the North, must
presume or discover the like magneticals at the South:
For in the Southern Seas and far beyond the Equator,
variations are large, and declinations as constant as in
the Northern Ocean.

The other relation of Loadstone Mines and Rocks,
in the shore of India is delivered of old by Pliny;
wherein, saith he, they are so placed both in abundance
and vigour, that it proves an adventure of hazard to
pass those Coasts in a Ship with Iron nails. Serapion
the Moor, an Author of good esteem and reasonable
Antiquity, confirmeth the same, whose expression in
the word magnes is this. The Mine of this Stone is in
the Sea-coast of India, whereto when Ships approach,
there is no Iron in them which flies not like a Bird
unto those Mountains; and therefore their ships are fastened not with Iron but Wood, for otherwise they would be torn to pieces. But this assertion, how positive soever, is contradicted by all Navigators that pass that way; which are now many, and of our own Nation, and might surely have been controled by Nearchus the Admiral of Alexander; who not knowing the Compass, was fain to coast that shore.

For the relation concerning Mahomet, it is generally believed his Tomb at Medina Talnabi, in Arabia, without any visible supporters hangeth in the air between two Loadstones artificially contrived both above and below; which conceit is fabulous and evidently false from the testimony of Ocular Testators, who affirm his Tomb is made of Stone, and lyeth upon the ground; as beside others the learned Vossius observeth from Gabriel Sionita, and Joannes Hesronita, two Maronites in their relations hereof. Of such intentions and attempt by Mahometans we read in some Relators, and that might be the occasion of the Fable, which by tradition of time and distance of place enlarged into the Story of being accomplished. And this hath been promoted by attempts of the like nature; for we read in Pliny that one Dinocrates began to Arch the Temple of Arsinoe in Alexandria with Loadstone, that so her Statue might be suspended in the air to the amazement of the beholders. And to lead on our crudelity herein, confirmation may be drawn from History and Writers of good authority. So it is reported by Ruffinus, that in the Temple of Serapis there was an Iron Chariot suspended by Loadstones in the air; which stones removed, the Chariot fell and dashed into pieces. The like doth Beda report of Bellerophons Horse, which framed of Iron,
was placed between two Loadstones, with wings expanded, pendulous in the air.

The verity of these Stories we shall not further dispute, their possibility we may in some way determine; if we conceive what no man will deny, that bodies suspended in the air have this suspension from one or many Loadstones placed both above and below it; or else by one or many placed only above it. Likewise the body to be suspended in respect of the Loadstone above, is either placed first at a pendulous distance in the medium, or else attracted unto that site by the vigor of the Loadstone. And so we first affirm, that possible it is, a body may be suspended between two Loadstones; that is, it being so equally attracted unto both, that it determineth it self unto neither. But surely this position will be of no duration; for if the air be agitated or the body waved either way, it omits the equilibration, and disposeth it self unto the nearest attractor. Again, It is not impossible (though hardly feasible) by a single Loadstone to suspend an Iron in the air, the Iron being artificially placed and at a distance guided toward the stone, until it find the neutral point, wherein its gravity just equals the magnetical quality, the one exactly extolling as much as the other depresseth. And lastly, Impossible it is that if an Iron rest upon the ground, and a Loadstone be placed over it, it should ever so arise as to hang in the way or medium; for that vigor which at a distance is able to overcome the resistance of its gravity and to lift it up from the Earth, will as it approacheth nearer be still more able to attract it; never remaining in the middle that could not abide in the extreams. Now the way of Baptista Porta that by a thred fastneth a Needle to a
Table, and then so guides and orders the same, that by the attraction of the Loadstone it abideth in the air, infringeth not this reason; for this is a violent retention, and if the thred be loosened, the Needle ascends and adheres unto the Attractor.

The third consideration concerneth Medical relations; wherein what ever effects are delivered, they are either derived from its mineral and ferreous condition, or else magnetical operation. Unto the ferreous and mineral quality pertaineth what Dioscorides an ancient Writer and Souldier under Anthony and Cleopatra affirmeth, that half a dram of Loadstone given with Honey and Water, proves a purgative medicine, and evacuateth gross humours. But this is a quality of great uncertainty; for omitting the vehicle of Water and Honey, which is of a laxative power it self, the powder of some Loadstones in this dose doth rather constipate and binde, then purge and loosen the belly. And if sometimes it cause any laxity, it is probably in the same way with Iron and Steel unprepared, which will disturb some bodies, and work by Purge and Vomit. And therefore, whereas it is delivered in a Book ascribed unto Galen, that it is a good medicine in dropsies, and evacuates the waters of persons so affected: It may I confess by siccity and striction afford a confirmation unto parts relaxed, and such as be hydropically disposed; and by these qualities it may be useful in Hernias or Ruptures, and for these it is commended by Ætius, Ægineta, and Oribatius; who only affirm that it contains the vertue of Haematites, and being burnt was sometimes vended for it. Wherein notwithstanding there is an higher vertue; and in the same prepared, or in rich veins thereof, though crude, we have observed the effects of Chalybeat
Medicines; and the benefits of Iron and Steel in strong obstructions. And therefore that was probably a different vein of Loadstone, or infected with other mineral mixture, which the Ancients commended for a purgative medicine, and ranked the same with the violentest kinds thereof: with Hippophae, Cneoron, and Thymelæa, as we find it in Hippocrates; and might be somewhat doubtful, whether by the magnesian stone, he understood the Loadstone; did not Achilles Statius define the same, the Stone that loveth Iron.

To this mineral condition belongeth what is delivered by some, that wounds which are made with weapons excited by the Loadstone, contract a malignity, and become of more difficult cure; which nevertheless is not to be found in the incision of Chyrurgions with knives and lances touched; which leave no such effect behind them. Hither we also refer that affirmative, which sayes the Loadstone is poison; and therefore in the lists of poisons we find it in many Authors. But this our experience cannot confirm, and the practice of the King of Zeilan clearly contradicteth; who as Garcias ab Horto, Physitian unto the Spanish Viceroy delivereth, hath all his meat served up in dishes of Loadstone, and conceives thereby he preserveth the vigour of youth.

But surely from a magnetical activity must be made out what is let fall by Ætius, that a Loadstone held in the hand of one that is podagrical, doth either cure or give great ease in the Gout. Or what Marcellus Empericus affirmeth, that as an amulet, it also cureth the headach; which are but additions unto its proper nature, and hopeful enlargements of its allowed attraction. For perceiving its secret power to draw magnetical bodies, men have invented a new attraction, to
draw out the dolour and pain of any part. And from such grounds it surely became a philter, and was conceived a medicine of some venereal attraction; and therefore upon this stone they graved the Image of Venus, according unto that of Claudian, *Venerem mag- netica gemma figurat.* Hither must we also refer what is delivered concerning its power to draw out of the body bullets and heads of arrows, and for the like intention is mixed up in plaisters. Which course, although as vain and ineffectual it be rejected by many good Authors, yet is it not methinks so readily to be denied, nor the Practice of many Physicians which have thus compounded plaisters, thus suddenly to be condemned, as may be observed in the *Emplastrum divinum Nicolai,* the *Emplastrum nigrum* of Augspurg, the *Opododoch* and *Attractivum* of Paracelsus, with several more in the Dispensatory of Wecker, and practice of Sennertus. The cure also of *Hernias,* or *Ruptures in Pareus:* and the method also of curation lately delivered by Daniel Beckherus,* and approved by the Professors of Leyden, that is, of a young man of Spruceland that casually swallowed a knife about ten inches long, which was cut out of his stomach, and the wound heale\(d\) up. In which cure to attract the knife to a convenient situation, there was applied a plaister made up with the powder of Loadstone. Now this kind of practice *Libavius,* *Gilbertus,* and lately *Swick-ardus* condemn, as vain, and altogether unuseful; because a Loalstone in powder hath no attractive power; for in that form it omits his polarly re- sights, and lose\(s\) those parts which are the rule of attraction.

Wherein to spak compendiously, if experiment hath not deceived us, we first affirm that a Loadstone in
powder omits not all attraction. For if the powder of a rich vein be in a reasonable quantity presented toward the Needle freely placed, it will not appear to be void of all activity, but will be able to stir it. Nor hath it only a power to move the Needle in powder and by itself, but this will it also do, if incorporated and mixed with plaisters; as we have made trial in the *Emplastrum de Minia*, with half an ounce of the mass, mixing a dram of Loadstone. For applying the magdalenon or roal unto the Needle, it would both stir and attract it; not equally in all parts, but more vigorously in some, according unto the Mine of the Stone, more plentifully dispersed in the mass. And lastly, In the Loadstone powdered, the polar respects are not wholly destroyed. For those diminutive particles are not atomical or meerly indivisible, but consist of dimensions sufficient for their operations, though in obscurer effects. Thus if unto the powder of Loadstone or Iron we admove the North Pole of the Loadstone, the Powders or small divisions will erect and conform themselves thereto: but if the South Pole approach, they will subside, and inverting their bodies, respect the Loadstone with the other extrem. And this will happen not only in a body of powder together, but in any particle or dust divided from it.

Now though we disavow not these plaisters, yet shall we not omit two cautions in their use, that therein the Stone be not too subtilly powdered, for it will better manifest its attraction in a more sensible dimension. That where is desired a speedy effect, it may be considered whether it were not better to relinquish the powdered plaisters, and to apply an entire Loadstone unto the part: And though the other be not wholly ineffectual, whether this way be not more powerful,
and so might have been in the cure of the young man delivered by Beckerus.

The last consideration concerneth Magical relations; in which account we comprehend effects derived and fathered upon hidden qualities, specifical forms, Antipathies and Sympathies, whereof from received grounds of Art, no reasons are derived. Herein relations are strange and numerous; men being apt in all Ages to multiply wonders, and Philosophers dealing with admirable bodies, as Historians have done with excellent men, upon the strength of their great atcheivements, ascribing acts unto them not only false but impossible; and exceeding truth as much in their relations, as they have others in their actions. Hereof we shall briefly mention some delivered by Authors of good esteem: whereby we may discover the fabulous inventions of some, the credulous supinity of others, and the great disservice unto truth by both: multiplying obscurities in Nature, and authorising hidden qualities that are false; whereas wise men are ashamed there are so many true.

And first, Dioscorides puts a shrewd quality upon it, and such as men are apt enough to experiment, who therewith discovers the incontinency of a wife, by placing the Loadstone under her pillow, whereupon she will not be able to remain in bed with her husband. The same he also makes a help unto thievery. For Thieves saith he, having a design upon a house, do make a fire at the four corners thereof, and cast therein the fragments of Loadstone: whence ariseth a fume that so disturbeth the inhabitants, that they forsake the house and leave it to the spoil of the Robbers. This relation, how ridiculous soever, hath Albertus taken up above a thousand years after, and Marbodeus
the Frenchman hath continued the same in Latine Verse, which with the Notes of Pictorius is currant unto our dayes. As strange must be the Lithomancy or divination from this Stone, whereby as Tzetzes delivers, Helenus the Prophet foretold the destruction of Troy: and the Magick thereof not safely to be believed, which was delivered by Orpheus, that sprinkled with water it will upon a question emit a voice not much unlike an Infant. But surely the Loadstone of Laurentius Guascus the Physitian, is never to be matched; wherewith, as Cardan delivereth, whatsoever Needles or Bodies were touched, the wounds and punctures made thereby, were never felt at all. And yet as strange is that which is delivered by some, that a Loadstone preserved in the salt of a Remora, acquires a power to attract gold out of the deepest Wells. Certainly a studied absurdity, not casually cast out, but plotted for perpetuity: for the strangeness of the effect ever to be admired, and the difficulty of the trial never to be convicted.

These conceits are of that monstrosity that they refute themselves in their recitements. There is another of better notice, and whispered thorow the World with some attention; credulous and vulgar auditors readily believing it, and more judicious and distinctive heads, not altogether rejecting it. The conceit is excellent, and if the effect would follow, somewhat divine; whereby we might communicate like spirits, and confer on earth with Menippus in the Moon. And this is pretended from the sympathy of two Needles touched with the same Loadstone, and placed in the center of two Abecedary circles or rings, with letters described round about them, one friend keeping one, and another the other, and agreeing upon
an hour wherein they will communicate. For then, saith Tradition, at what distance of place soever, when one Needle shall be removed unto any letter, the other by a wonderful sympathy will move unto the same. But herein I confess my experience can find no truth; for having expressly framed two circles of Wood, and according to the number of the Latine letters divided each into twenty three parts, placing therein two stiles or Needles composed of the same steel, touched with the same Loadstone, and at the same point: of these two, whencesoever I removed the one, although but at the distance of half a span, the other would stand like Hercules pillars, and if the Earth stand still, have surely no motion at all. Now as it is not possible that any body should have no boundaries, or Sphear of its activity, so it is improbable it should effect that at distance, which nearer hand it cannot at all perform.

Again, The conceit is ill contrived, and one effect inferred, whereas the contrary will ensue. For if the removing of one of the Needles from A to B, should have any action or influence on the other, it would not intice it from A to B, but repell it from A to Z: for Needles excited by the same point of the stone, do not attract, but avoid each other, even as these also do, when their invigorated extreams approach unto one other.

Lastly, Were this conceit assuredly true, yet were it not a conclusion at every distance to be tried by every head: it being no ordinary or Almanack business, but a Problem Mathematical, to finde out the difference of hours in different places; nor do the wisest exactly satisfie themselves in all. For the hours of several places anticipate each other, according unto their Longitudes, which are not exactly discovered of every
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CHAP. III

place; and therefore the trial hereof at a considerable interval, is best performed at the distance of the Anteci; that is, such habitations as have the same Meridian and equal parallel, on different sides of the Aequator; or more plainly the same Longitude and the same Latitude unto the South, which we have in the North. For unto such situations it is noon and midnight at the very same time.

And therefore the Sympathy of these Needles is much of the same mould with that intelligence which is pretended from the flesh of one body transmuted by incision into another. For if by the Art of Talia-cotius, a permutation of flesh, or transmutation be made from one man's body into another, as if a piece of flesh be exchanged from the bicipital muscle of either parties arm, and about them both an Alphabet circumscribed; upon a time appointed as some conceptions affirm, they may communicate at what distance soever. For if the one shall prick himself in A, the other at the same time will have a sense thereof in the same part: and upon inspection of his arm perceive what letters the other points out in his. Which is a way of intelligence very strange: and would requite the lost Art of Pythagoras, who could read a reverse in the Moon.

Now this magnetical conceit how strange soever, might have some original in Reason; for men observing no solid body, whatsoever did interrupt its action, might be induced to believe no distance would terminate the same; and most conceiving it pointed unto the Pole of Heaven, might also opinion that nothing between could restrain it. Whosoever was the Author, the ΑΕolus that blew it about was Famianus Strada, that Elegant Jesuit, in his Rhetorical prolixions, who chose out this subject to express the stile of Lucretius.
But neither Baptista Porta, De Furtivis Literarum notis; Trithemius in his Steganography, Selenus in his Cryptography, or Nuncius inanimatus make any consideration hereof, although they deliver many ways to communicate thoughts at distance. And this we will not deny may in some manner be effected by the Loadstone; that is, from one room into another; by placing a table in the wall common unto both, and writing thereon the same letters one against another: for upon the approach of a vigorous Loadstone unto a letter on this side, the Needle will move unto the same on the other. But this is a very different way from ours at present; and hereof there are many ways delivered, and more may be discovered which contradict not the rule of its operations.

As for Unguentum Armarium, called also Magneticum, it belongs not to this discourse, it neither having the Loadstone for its ingredient, nor any one of its actions: but supposeth other principles, as common and universal spirits, which convey the action of the remedy unto the part, and conjoins the vertue of bodies far disjoyned. But perhaps the cures it doth, are not worth so mighty principles; it commonly healing but simple wounds, and such as mundified and kept clean, do need no other hand then that of Nature, and the Balsam of the proper part. Unto which effect there being fields of Medicines, it may be a hazardous curiosity to rely on this; and because men say the effect doth generally follow, it might be worth the experiment to try, whether the same will not ensue, upon the same Method of cure, by ordinary Balsams, or common vulnerary plaisters.

Many other Magnetisms may be pretended, and the like attractions through all the creatures of Nature.
Whether the same be verified in the action of the Sun upon inferiour bodies, whether there be Æolian Magnets, whether the flux and reflux of the Sea be caused by any Magnetism from the Moon; whether the like be really made out, or rather Metaphorically verified in the sympathies of Plants and Animals, might afford a large dispute; and Kircherus in his Catena Magnetica hath excellently discussed the same; which work came late unto our hand, but might have much advantaged this Discourse.

Other Discourses there might be made of the Loadstone: as Moral, Mystical, Theological; and some have handsomely done them; as Ambrose, Austine, Gulielmus Parisiensis, and many more, but these fall under no Rule, and are as boundless as mens inventions. And though honest minds do glorifie God hereby; yet do they most powerfully magnifie him, and are to be looked on with another eye, who demonstratively set forth its Magnalities; who not from postulated or precarious inferences, entreat a courteous assent; but from experiments and undeniable effects, enforce the wonder of its Maker.

CHAPTER IV

Of Bodies Electrical.

HAVING thus spoken of the Loadstone and Bodies Magnetical, I shall in the next place deliver somewhat of Electrical, and such as may seem to have attraction like the other. Hereof we shall also deliver what particularly spoken or not generally known is manifestly or probably true, what
generally believed is also false or dubious. Now by Electrical bodies, I understand not such as are Metal-lical, mentioned by Pliny, and the Ancients; for their Electrum was a mixture made of Gold, with the Addition of a fifth part of Silver; a substance now as unknown as true Aurichalcum, or Corinthian Brass, and set down among things lost by Pancirollus. Nor by Electrick Bodies do I conceive such only as take up shavings, straws, and light bodies, in which number the Ancients only placed Jet and Amber; but such as conveniently placed unto their objects attract all bodies palpable whatsoever. I say conveniently placed, that is, in regard of the object, that it be not too ponderous, or any way affixed; in regard of the Agent, that it be not foul or sullied, but wiped, rubbed, and excitated; in regard of both, that they be conveniently distant, and no impediment interposed. I say, all bodies palpable, thereby excluding fire, which indeed it will not attract, nor yet draw through it; for fire consumes its effusions by which it should attract.

Now although in this rank but two were commonly mentioned by the Ancients, Gilbertus discovereth many more; as Diamonds, Saphyrs, Carbuncles, Iris, Opalls, Amethysts, Beril, Crystal, Bristol-stones, Sulphur, Mastick, hard Wax, hard Rosin, Arsenic, Sal-gemm, Rock-Album, common Glass, Stibium, or Glass of Antimony. Unto these Cabeus addeth white Wax, Gum Elemi, Gum Guaici, Pix Hispanica, and Gipsum. And unto these we add Gum Anime, Benjamin, Talcum, China-dishes, Sandaraca, Turpentine, Styrax Liquida, and Caranna dried into a hard consistence. And the same attraction we find, not onely in simple bodies, but such as are much compounded; as in the Oxycroceum plaister, and obscurely that ad Herniam, and Gratia
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CHAP. IV Dei; all which smooth and rightly prepared, will discover a sufficient power to stir the Needle, settled freely upon a well-pointed pin; and so as the Electrick may be applied unto it without all disadvantage.

But the attraction of these Electricks we observe to be very different. Resinous or unctuous bodies, and such as will flame, attract most vigorously, and most thereof without frication; as Anime, Benjamin, and most powerfully good hard Wax, which will convert the Needle almost as actively as the Loadstone. And we believe that all or most of this substance if reduced to hardness, tralucency or clearness, would have some attractive quality. But juices concrete, or Gums easily dissolving in water, draw not at all: as Aloe, Opium, Sanguis Draconis, Lacca, Calbanum, Sagapenum. Many stones also both precious and vulgar, although terse and smooth, have not this power attractive: as Emeralds, Pearl, Jaspis, Corneleans, Agathe, Heliotropes, Marble, Alabaster, Touchstone, Flint, and Bezoar. Glass attracts but weakly, though clear; some slick stones and thick Glasses indifferently: Arsenic but weakly, so likewise Glass of Antimony, but Crocus Metallorum not at all. Salts generally but weakly, as Sal Gemma, Allum, and also Talke; nor very discoverably by any frication, but if gently warmed at the fire, and wiped with a dry cloth, they will better discover their Electricities.

No Metal attracts, nor Animal concretion we know, although polite and smooth; as we have made trial in Elks Hoofs, Hawks-Talons, the Sword of a Sword-fish, Tortois-shells, Sea-horse, and Elephants Teeth, in Bones, in Harts-horn, and what is usually conceived Unicorns-horn. No Wood though never so hard and polished, although out of some thereof Electrick bodies proceed;
as Ebony, Box, Lignum vitae, Cedar, etc. And although Jet and Amber be reckoned among Bitumens, yet neither do we find Asphaltus, that is, Bitumens of Judea, nor Sea-cole, nor Camphire, nor Mummia to attract, although we have tried in large and polished pieces. Now this attraction have we tried in straws and paleous bodies, in Needles of Iron, equilibrated, Powders of Wood and Iron, in Gold and Silver foliate. And not only in solid but fluent and liquid bodies, as oyls made both by expression and distillation; in Water, in spirits of Wine, Vitriol and Aquafortis.

But how this attraction is made, is not so easily determined; that 'tis performed by effluviums is plain, and granted by most; for Electricks will not commonly attract, except they grow hot or become perspirable. For if they be foul and obnubilated, it hinders their effluxion; nor if they be covered, though but with Linen or Sarsenet, or if a body be interposed, for that intercepts the effluvium. If also a powerful and broad Electrick of Wax or Anime be held over fine powder, the Atoms or small particles will ascend most numerously unto it; and if the Electrick be held unto the light, it may be observed that many thereof will fly, and be as it were discharged from the Electrick to the distance sometime of two or three inches. Which motion is performed by the breath of the effluvium issuing with agility; for as the Electrick cooleth, the projection of the Atoms ceaseth.

The manner hereof Cabeus wittily attempteth, affirming that this effluvium attenuateth and impelleth the neighbor air, which returning home in a gyration, carrieth with it the obvious bodies unto the Electrick. And this he labours to confirm by experiments; for if the straws be raised by a vigorous Electrick, they do
CHAP. IV appear to wave and turn in their ascents. If like-
wise the Electrick be broad, and the straws light and
chaffy, and held at a reasonable distance, they will not
arise unto the middle, but rather adhere toward the
Verge or Borders thereof. And lastly, if many straws
be laid together, and a nimble Electrick approach,
they will not all arise unto it, but some will commonly
start aside, and be whirled a reasonable distance from
it. Now that the air impelled returns unto its place
in a gyration or whirling, is evident from the Atoms
or Motes in the Sun. For when the Sun so enters a
hole or window, that by its illumination the Atoms or
Motes become perceptible, if then by our breath the
air be gently impelled, it may be perceived, that they
will circularly return and in a gyration unto their
places again.

Another way of their attraction is also delivered;
that is, by a tenuous emanation or continued effluvium,
which after some distance retracteth into it self; as is
observable in drops of Syrups, Oyl, and seminal Vis-
cosities, which spun at length, retire into their former
dimensions. Now these effluviums advancing from the
body of the Electrick, in their return do carry back the
bodies whereon they have laid hold within the Sphere
or Circle of their continuities; and these they do not
onely attract, but with their viscous arms hold fast a
good while after. And if any shall wonder why these
effluviums issuing forth impel and protrude not the
straw before they can bring it back, it is because the
effluvium passing out in a smaller thred and more
enlengthened filament, it stirreth not the bodies inter-
posed, but returning unto its original, falls into a
closer substance, and carrieth them back unto it self.
And this way of attraction is best received, embraced
by Sir Kenelm Digby in his excellent Treaty of bodies, allowed by Des Cartes in his principles of Philosophy, as far and concerneth fat and resinous bodies, and with exception of Glass, whose attraction he also deriveth from the recess of its effluction. And this in some manner the words of Gilbertus will bear: Effluvia illa tenuiora concipiunt & amplectuntur corpora, quibus uniuntur, & electris tanquam extensis brachiis, & ad fontem propinquitate invalescentibus effluviis, deducuntur. And if the ground were true, that the Earth were an Electrick body, and the air but the effluvium thereof, we might have more reason to believe that from this attraction, and by this effluction, bodies tended to the Earth, and could not remain above it.

Our other discourse of Electricks concerneth a general opinion touching Jet and Amber, that they attract all light bodies, except Ocymum or Basil, and such as be dipped in oyl or oyled; and this is urged as high as Theophrastus: but Scaliger acquitteth him; And had this been his assertion, Pliny would probably have taken it up, who herein stands out, and delivereth no more but what is vulgarly known. But Plutarch speaks positively in his Symposiacks, that Amber attracteth all bodies, excepting Basil and oyled substances. With Plutarch consent many Authors both Ancient and Modern; but the most inexcusable are Lemnus and Rueus, whereof the one delivering the nature of Minerals mentioned in Scripture, the infallible fountain of Truth, confirmeth their vertues with erroneous traditions; the other undertaking the occult and hidden Miracles of Nature, accepteth this for one; and endeavoureth to alledge a reason of that which is more then occult, that is, not existent.

Now herein, omitting the authority of others, as the
Doctrine of experiment hath informed us, we first affirm, That Amber attracts not Basil, is wholly repugnant unto truth. For if the leaves thereof or dried stalks be stripped into small straws, they arise unto Amber, Wax, and other Electrics, no otherwise then those of Wheat and Rye: nor is there any peculiar fatness or singular viscosity in that plant that might cause adhesion, and so prevent its ascension. But that Jet and Amber attract not straws oyled, is in part true and false. For if the straws be much wet or drenched in oyl, true it is that Amber draweth them not; for then the oyl makes the straws to adhere unto the part whereon they are placed, so that they cannot rise unto the Attractor; and this is true, not onely if they be soaked in Oyl, but spirits of Wine or Water. But if we speak of Straws or festucous divisions lightly drawn over with oyl, and so that it causeth no adhesion; or if we conceive an Antipathy between Oyl and Amber, the Doctrine is not true. For Amber will attract straws thus oyled, it will convert the Needles of Dials made either of Brass or Iron, although they be much oyled; for in these Needles consisting free upon their Center, there can be no adhesion. It will likewise attract Oyl it self, and if it approacheth unto a drop thereof, it becometh conical, and ariseth up unto it, for Oyl taketh not away his attraction, although it be rubbed over it. For if you touch a piece of Wax already excitatèd with common Oyl, it will notwithstanding attract, though not so vigorously as before. But if you moisten the same with any Chymical Oyl, Water, or spirits of Wine, or only breath upon it, it quite omits its attraction, for either its influencies cannot get through, or will not mingle with those substances.
It is likewise probable the Ancients were mistaken concerning its substance and generation; they con-
ceiving it a vegetable concretion made of the gums of
Trees, especially Pine and Poplar falling into the water,
and after indurated or hardened, whereunto accordeth
the Fable of Phaetons sisters: but surely the concre-
tion is Mineral, according as is delivered by Boetius.
For either it is found in Mountains and mediterranean
parts; and so it is a fat and unctuous sublimation in
the Earth, concreted and fixed by salt and nitrous
spirits wherewith it meeteth. Or else, which is most
usual, it is collected upon the Sea-shore; and so it is
a fat and bituminous juice coagulated by the saltiness
of the Sea. Now that salt spirits have a power to
congeal and coagulate unctuous bodies, is evident in
Chymical operations; in the distillations of Arsenick,
sublimate and Antimony; in the mixture of oyl of
Juniper, with the salt and acide spirit of Sulphur, for
thereupon ensueth a concretion unto the consistence of
Birdlime; as also in spirits of salt, or Aqua fortis
poured upon oyl of Olive, or more plainly in the
Manufacture of Soap. And many bodies will coagu-
late upon commixture, whose separated natures promise
no concretion. Thus upon a solution of Tin by Aqua
fortis, there will ensue a coagulation, like that of
whites of Eggs. Thus the volatile salt of Urine will
cogulate Aqua vitæ, or spirits of Wine; and thus
perhaps (as Helmont excellently declareth) the stones
or calculous concretions in Kidney or Bladder may be
produced: the spirits or volatile salt of Urine conjoyn-
ing with the Aqua vitæ potentially lying therein; as
he illustrateth from the distillation of fermented Urine.
From whence ariseth an Aqua vitæ or spirit, which
the volatile salt of the same Urine will congeal; and
finding an earthy concurrence, strike into a lapideous substance.

Lastly, We will not omit what Bellabonus upon his own experiment writ from Dantzich unto Mellichius, as he hath left recorded in his Chapter, De succino, that the bodies of Flies, Pismires, and the like, which are said oft-times to be included in Amber, are not real but representative, as he discovered in several pieces broke for that purpose. If so, the two famous Epigrams hereof in Martial are but Poetical, the Pismire of Brassavolus imaginary, and Cardans Mousoleum for a Flie, a meer phansie. But hereunto we know not how to assent, as having met with some whose reals made good their representments.

CHAPTER V

Compendiously of sundry other common Tenents, concerning Mineral and Terreous Bodies, which examined, prove either false or dubious.

1. And first we hear it in every mouth, and in many good Authors read it, That a Diamond, which is the hardest of stones, not yielding unto Steel, Emery, or any thing but its own powder, is yet made soft, or broke by the blood of a Goat. Thus much is affirmed by Pliny, Solinus, Albertus, Cyprian, Austin, Isidore, and many Christian Writers, alluding herein unto the heart of man and the precious bloud of our Saviour, who was typified by the Goat that was slain, and the scape-Goat in the Wilderness; and at the effusion of whose bloud, not
only the hard hearts of his enemies relented, but the stony rocks and vail of the Temple were shattered. But this I perceive is easier affirmed then proved. For Lapidaries, and such as profess the art of cutting this stone, do generally deny it; and they that seem to countenance it, have in their deliveries so qualified it, that little from thence of moment can be inferred for it. For first, the holy Fathers, without a further enquiry did take it for granted, and rested upon the authority of the first deliverers. As for Albertus, he promiseth this effect, but conditionally, not except the Goat drink wine, and be fed with Silur montanum, petroselinum, and such herbs as are conceived of power to break the stone in the bladder. But the words of Pliny, from whom most likely the rest at first derived it, if strictly considered, do rather overthrow, then any way advantage this effect. His words are these: Hircino rumpitur sanguine, nec aliter quam recenti, calidoque macerata, & sic quoque multis ictibus, tunc etiam praterquam eximias incudes malleosque ferreos frangens. That is, it is broken with Goats blood, but not except it be fresh and warm, and that not without many blows, and then also it will break the best Anvils and Hammers of Iron. And answerable hereto, is the assertion of Isidore and Solinus. By which account, a Diamond steeped in Goats blood, rather increaseth in hardness, then acquireth any softness by the infusion; for the best we have are comminuible without it; and are so far from breaking hammers, that they submit unto pistillation, and resist not an ordinary pestle.

Upon this conceit arose perhaps the discovery of another; that the bloud of a Goat was soveraign for the Stone, as it stands commended by many good Writers, and brings up the composition in the powder Pulvis Lithontripticus.
of Nicolaus, and the Electuary of the Queen of Colein.

Or rather because it was found an excellent medicine for the Stone, and its ability commended by some to dissolve the hardest thereof; it might be conceived by amplifying apprehensions, to be able to break a Diamond; and so it came to be ordered that the Goat should be fed with saxifragous herbs, and such as are conceived of power to break the stone. However it were, as the effect is false in the one, so is it surely very doubtful in the other. For although inwardly received it may be very diuretick, and expulse the stone in the Kidneys, yet how it should dissolve or break that in the bladder, will require a further dispute; and perhaps would be more reasonably tried by a warm injection thereof, then as it is commonly used. Wherein notwithstanding, we should rather rely upon the urine in a castlings bladder, a resolution of Crabs eyes, or the second distillation of Urine, as Helmont hath commended; or rather (if any such might be found) a Chylifactory menstruum or digestive preparation drawn from species or individuals, whose stomachs peculiarly dissolve lapideous bodies.

2. That Glass is poison, according unto common conceit, I know not how to grant. Not onely from the innocency of its ingredients, that is, fine Sand, and the ashes of Glass-wort of Fearn, which in themselves are harmless and useful: or because I find it by many commended for the Stone, but also from experience, as having given unto Dogs above a dram thereof, subtilly powdered in Butter and Paste, without any visible disturbance.

The conceit is surely grounded upon the visible mischief of Glass grosly or coursly powdered, for that indeed is mortally noxious, and effectually used by
some to destroy Mice and Rats; for by reason of its acuteness and angularity, it commonly excoriates the parts through which it passeth, and solicits them unto a continual expulsion. Whereupon there ensues fearful symptomes, not much unlike those which attend the action of poison. From whence notwithstanding, we cannot with propriety impose upon it that name, either by occult or elementary quality, which he that conceded will much enlarge the Catalogue or Lists of Poisons. For many things, neither deleterious by substance or quality, are yet destructive by figure, or some occasional activity. So are Leeches destructive, and by some accounted poison; not properly, that is by temperamental contrariety, occult form, or so much as elemental repugnancy; but because being inwardly taken they fasten upon the veins, and occasion an effusion of blood, which cannot be easily stanched. So a Sponge is mischievous, not in itself, for in its powder it is harmless: but because being received into the stomach it swelleth, and occasioning a continual distension, induceth a strangulation. So Pins, Needles, ears of Rye or Barley may be poison. So Daniel destroyed the Dragon by a composition of three things, whereof neither was poison alone, nor properly all together, that is, Pitch, Fat, and Hair, according as is expressed in the History. Then Daniel took Pitch, and Fat, and Hair, and did seeth them together, and made lumps thereof, these he put in the Dragons mouth, and so he burst asunder. That is, the Fat and Pitch being cleaving bodies, and the Hair continually extimulating the parts: by the action of the one, Nature was provoked to expell, but by the tenacity of the other forced to retain: so that there being left no passage in or out, the Dragon brake in pieces. It must therefore
be taken of grosly-powdered Glass, what is delivered by Grevinus: and from the same must that mortal dysentery proceed which is related by Sanctorius. And in the same sense shall we only allow a Diamond to be poison; and whereby as some relate Paracelsus himself was poisonéd. So even the precious fragments and cordial gems which are of frequent use in Physick, and in themselves confessed of useful faculties, received in gross and angular Powders, may so offend the bowels, as to procure desperate languors, or cause most dangerous fluxes.

That Glass may be rendred malleable and pliable unto the hammer, many conceive, and some make little doubt, when they read in Dio, Pliny, and Petronius, that one unhappily effected it for Tiberius. Which notwithstanding must needs seem strange unto such as consider, that bodies are ductile from a tenacious humidity, which so holdeth the parts together; that though they dilate or extend, they part not from each others. That bodies run into Glass, when the volatile parts are exhaled, and the continuing humour separated: the Salt and Earth, that is, the fixed parts remaining. And therefore vitrification maketh bodies brittle, as destroying the viscous humours which hinder the disruption of parts. Which may be verified even in the bodies of Metals. For Glass of Lead or Tin is fragile, when that glutinous Sulphur hath been fired out, which made their bodies ductile.

He that would most probably attempt it, must experiment upon Gold. Whose fixed and flying parts are so conjoined, whose Sulphur and continuing principle is so united unto the Salt, that some may be hoped to remain to hinder fragility after vitrification. But how to proceed, though after frequent corrosion,
as that upon the agency of fire, it should not revive into its proper body before it comes to vitrifie, will prove no easie discovery.

3. That Gold inwardly taken, either in substance, infusion, decoction or extinction, is a cordial of great efficacy, in sundry Medical uses, although a practice much used, is also much questioned, and by no man determined beyond dispute. There are hereof I perceive two extream opinions; some excessively magnifying it, and probably beyond its deserts; others extreamly vilifying it, and perhaps below its demerits. Some affirming it a powerful Medicine in many diseases, others averring that so used, it is effectual in none: and in this number are very eminent Physicians, Erastus, Duretus, Rondeletius, Brassavolus and many other, who beside the strigments and sudorous adhesions from mens hands, acknowledge that nothing procedeth from Gold in the usual decoction thereof. Now the capital reason that led men unto this opinion, was their observation of the inseparable nature of Gold; it being excluded in the same quantity as it was received, without alteration of parts, or diminution of its gravity.

Now herein to deliver somewhat which in a middle way may be entertained; we first affirm, that the substance of Gold is invincible by the powerfullest action of natural heat; and that not only alimentally in a substantial mutation, but also medicamentally in any corporeal conversion. As is very evident, not only in the swallowing of golden bullets, but in the lesser and foliate divisions thereof: passing the stomach and guts even as it doth the throat, that is, without abatement of weight or consistence. So that it entereth not the veins with those electuaries, wherein it is
mixed: but taketh leave of the permeant parts, at the
mouths of the Meseraicks, or Lacteal Vessels, and accom-
panieth the inconvertible portion unto the siege. Nor
is its substantial conversion expectible in any composi-
tion or aliment wherein it is taken. And therefore that
was truly a starving absurdity, which befel the wishes
of Midas. And little credit there is to be given to the
golden Hen, related by Wendlerus. So in the extinc-
tion of Gold, we must not conceive it parteth with any
of its salt or dissoluble principle thereby, as we may
affirm of Iron; for the parts thereof are fixed beyond
division, nor will they separate upon the strongest test
of fire. This we affirm of pure Gold: for that which
is currant and passeth in stamp amongst us, by reason
of its allay, which is a proportion of Silver or Copper
mixed therewith, is actually dequantitated by fire, and
possibly by frequent extinction.

Secondly, Although the substance of Gold be not
immuted or its gravity sensibly decreased, yet that
from thence some vertue may proceed either in sub-
stantial reception or infusion we cannot safely deny.
For possible it is that bodies may emit vertue and
operation without abatement of weight; as is evident
in the Loadstone, whose effluencies are continual, and
communicable without a minoration of gravity. And
the like is observable in Bodies electrical, whose
emissions are less subtile. So will a Diamond or
Saphire emit an effluvium sufficient to move the Needle
or a Straw, without diminution of weight. Nor will
polished Amber although it send forth a gross and
corporal exhalement, be found a long time defective
upon the exactest scales. Which is more easily con-
ceivable in a continued and tenacious effluvium,
whereof a great part retreats into its body.
Thirdly, If amulets do work by emanations from their bodies, upon those parts whereunto they are appended, and are not yet observed to abate their weight; if they produce visible and real effects by imponderous and invisible emissions, it may be unjust to deny the possible efficacy of Gold, in the non-omission of weight, or deperdition of any ponderous particles.

Lastly, Since Stibium or Glass of Antimony, since also its Regulus will manifestly communicate unto Water or Wine, a purging and vomitory operation; and yet the body it self, though after iterated infusions, cannot be found to abate either vertue or weight: we shall not deny but Gold may do the like, that is, impart some effluences unto the infusion, which carry with them the separable subtilities thereof.

That therefore this Metal thus received, hath any undeniable effect, we shall not imperiously determine, although beside the former experiments, many more may induce us to believe it. But since the point is dubious and not yet authentically decided, it will be no discretion to depend on disputable remedies; but rather in cases of known danger, to have recourse unto medicines of known and approved activity. For, beside the benefit accruing unto the sick, hereby may be avoided a gross and frequent errour, commonly committed in the use of doubtful remedies, conjointly with those which are of approved vertues; that is to impute the cure unto the conceited remedy, or place it on that whereon they place their opinion. Whose operation although it be nothing, or its concurrence not considerable, yet doth it obtain the name of the whole cure: and carrieth often the honour of the capital energie, which had no finger in it.
Herein exact and critical trial should be made by publick enjoinment, whereby determination might be settled beyond debate: for since thereby not only the bodies of men, but great Treasures might be preserved, it is not only an errour of Physick, but folly of State, to doubt thereof any longer.

4. That a pot full of ashes, will still contain as much water as it would without them, although by Aristotle in his Problems taken for granted, and so received by most, is not effectable upon the strictest experiment I could ever make. For when the airy intersticies are filled, and as much of the salt of the ashes as the water will imbibe is dissolved, there remains a gross and terreous portion at the bottom, which will possess a space by it self, according whereto there will remain a quantity of Water not receivable; so will it come to pass in a pot of salt, although decrepitated; and so also in a pot of Snow. For so much it will want in reception, as its solution taketh up, according unto the bulk whereof, there will remain a portion of Water not to be admitted. So a Glass stuffed with pieces of Sponge will want about a sixth part of what it would receive without it. So Sugar will not dissolve beyond the capacity of the Water, nor a Metal in aqua fortis be corroded beyond its reception. And so a pint of salt of Tartar exposed unto a moist air until it dissolve, will make far more liquor, or as some term it oyl, then the former measure will contain.

Nor is it only the exclusion of air by water, or repletion of cavities possessed thereby, which causeth a pot of ashes to admit so great a quantity of Water, but also the solution of the salt of the ashes into the body of the dissolvent. So a pot of ashes will receive somewhat more of hot Water then of cold, for the
warm water imbibeth more of the Salt; and a vessel of ashes more then one of pin-dust or filings of Iron; and a Glass full of Water will yet drink in a proportion of Salt or Sugar without overflowing.

Nevertheless to make the experiment with most advantage, and in which sense it approacheth nearest the truth, it must be made in ashes throughly burnt and well reverberated by fire, after the salt thereof hath been drawn out by iterated decoctions. For then the body being reduced nearer unto Earth, and emptied of all other principles, which had former ingressi on unto it, becometh more porous, and greedily drinketh in water. He that hath beheld what quantity of Lead the test of saltless ashes will imbibe, upon the refining of Silver, hath encouragement to think it will do very much more in water.

5. Of white powder and such as is discharged without report, there is no small noise in the World: but how far agreeable unto truth, few I perceive are able to determine. Herein therefore to satisfie the doubts of some, and amuse the credulity of others, We first declare, that Gunpowder consisteth of three ingredients, Salt-petre, Small-coal, and Brimstone. Salt-petre although it be also natural and found in several places, yet is that of common use an artificial Salt, drawn from the infusion of salt Earth, as that of Stales, Stables, Dove-houses, Cellers, and other covered places, where the rain can neither dissolve, nor the Sun approach to resolve it. Brimstone is a Mineral body of fat and inflamable parts, and this is either used crude, and called Sulphur Vive, and is of a sadder colour; or after depuration, such as we have in magdeleons or rolls, of a lighter yellow. Small-coal is known unto all, and for this use is made of Sallow, Willow, Alder,
PSEUDODOXIA

CHAP. V. Hazel, and the like; which three proportionably mixed, tempered, and formed into granular bodies, do make up that Powder which is in use for Guns.

Now all these, although they bear a share in the discharge, yet have they distinct intentions, and different offices in the composition. From Brimstone proceedeth the piercing and powerful firing; for Small-coal and Petre together will only spit, nor vigorously continue the ignition. From Small-coal ensueth the black colour and quick accession; for neither Brimstone nor Petre, although in Powder, will take fire like Small-coal, nor will they easily kindle upon the sparks of a Flint; as neither will Camphire, a body very inflammable: but Small-coal is equivalent to Tinder, and serveth to light the Sulphur. It may also serve to diffuse the ignition through every part of the mixture; and being of more gross and fixed parts, may seem to moderate the activity of Salt-petre, and prevent too hasty rarefaction. From Salt-petre proceedeth the force and the report; for Sulphur and Small-coal mixed will not take fire with noise, or exilition, and Powder which is made of impure and greasie Petre hath but a weak emission, and giveth a faint report. And therefore in the three sorts of Powder the strongest containeth most Salt-petre, and the proportion thereof is about ten parts of Petre unto one of Coal and Sulphur.

But the immediate cause of the Report is the vehement commotion of the air upon the sudden and violent eruption of the Powder; for that being suddenly fired, and almost altogether, upon this high rarefaction, requireth by many degrees a greater space than before its body occupied; but finding resistance, it actively forceth his way, and by concussion of the air occasioneth the Report. Now with what violence it forceth upon
the air, may easily be conceived, if we admit what Cardan affirmeth, that the Powder fired doth occupy an hundred times a greater space then its own bulk; or rather what Snellius more exactly accounteth; that it exceedeth its former space no less then 12000 and 500 times. And this is the reason not only of this fulminating report of Guns, but may resolve the cause of those terrible cracks, and affrighting noises of Heaven; that is, the nitrous and sulphureous exhalations, set on fire in the Clouds; whereupon requiring a larger place, they force out their way, not only with the breaking of the cloud, but the laceration of the air about it. When if the matter be spirituous, and the cloud compact, the noise is great and terrible: If the cloud be thin, and the Materials weak, the eruption is languid, ending in coruscations and flashes without noise, although but at the distance of two miles; which is esteemed the remotest distance of clouds. And therefore such lightnings do seldom any harm. And therefore also it is prodigious to have thunder in a clear sky, as is observably recorded in some Histories.

From the like cause may also proceed subterraneous Thunders and Earthquakes, when sulphureous and nitrous veins being fired, upon rarefaction do force their way through bodies that resist them. Where if the kindled matter be plentiful, and the Mine close and firm about it, subversion of Hills and Towns doth sometimes follow: If scanty, weak, and the Earth hollow or porous, there only ensueth some faint concussion or tremulous and quaking Motion. Surely, a main reason why the Ancients were so imperfect in the doctrine of Meteors, was their ignorance of Gunpowder and Fire-works, which best discover the causes of many thereof.
Now therefore he that would destroy the report of Powder, must work upon the Petre; he that would exchange the colour, must think how to alter the Small-coal. For the one, that is, to make white Powder, it is surely many ways feasible: The best I know is by the powder of rotten Willows, Spunk, or Touch-wood prepared, might perhaps make it Russet: and some, as Beringuuccio affirmeth, have promised to make it Red. All which notwithstanding doth little concern the Report, for that, as we have shewed, depends on another Ingredient. And therefore also under the colour of black, this principle is very variable; for it is made not onely by Willow, Alder, Hazel, etc. But some above all commend the coals of Flax and Rushes, and some also contend the same may be effected with Tinder.

As for the other, that is, to destroy the Report, it is reasonably attempted but two ways; either by quite leaving out, or else by silencing the Salt-petre. How to abate the vigour thereof, or silence its bombulation, a way is promised by Porta, not only in general terms by some fat bodies, but in particular by Borax and butter mixed in a due proportion; which saith he, will so go off as scarce to be heard by the discharger; and indeed plentifully mixed, it will almost take off the Report, and also the force of the charge. That it may be thus made without Salt-petre, I have met with but one example, that is, of Alphonsus Duke of Ferrara, who in the relation of Brassavolus and Cardan, invented such a Powder as would discharge a bullet without Report.

That therefore white Powder there may be, there is no absurdity; that also such a one as may give no report, we will not deny a possibility. But this how-
ever, contrived either with or without Salt-petre, will surely be of little force, and the effects thereof no way to be feared: For as it omits of Report so will it of effectual exclusion, and so the charge be of little force which is excluded. For thus much is reported of that famous Powder of Alphonsus, which was not of force enough to kill a Chicken, according to the delivery of Brassavolus. *Jamque pulvis inventus est qui glandem sine bombo projicit, nec tamen vehementer ut vel pullum interficere possit.*

It is not to be denied, there are ways to discharge a bullet, not only with Powder that makes no noise, but without any Powder at all; as is done by Water and Wind-guns, but these afford no fulminating Report, and depend on single principles. And even in ordinary Powder there are pretended other ways to alter the noise and strength of the discharge; and the best, if not only way, consists in the quality of the Nitre: for as for other ways which make either additions or alterations in the Powder, or charge, I find therein no effect: That unto every pound of Sulphur, an adjection of one ounce of Quick-silver, or unto every pound of Petre, one ounce of *Sal Armoniac* will much intend the force, and consequently the Report, as Beringuccio hath delivered, I find no success therein. That a piece of *Opium* will dead the force and blow, as some have promised, I find herein no such peculiarity, no more then in any Gum or viscos body: and as much effect there is to be found from *Scammony*. That a bullet dipped in oyl by preventing the transpiration of air, will carry farther, and pierce deeper, as *Porta* affirmeth, my experience cannot discern. That Quick-silver is more destructive then shot, is surely not to be made out; for it will scarce make any penetration, and discharged
from a Pistol, will hardly pierce through a Parchment. That Vinegar, spirits of Wine, or the distilled water of Orange-pills, wherewith the Powder is tempered, are more effectual unto the Report than common Water, as some do promise, I shall not affirm; but may assuredly more conduce unto the preservation and durance of the Powder, as Cataneo hath well observed.

That the heads of arrows and bullets have been discharged with that force, as to melt or grow red hot in their flight, though commonly received, and taken up by Aristotle in his Meteors, is not so easily allowable by any, who shall consider, that a Bullet of Wax will mischief without melting; that an Arrow or Bullet discharged against Linen or Paper do not set them on fire; and hardly apprehend how an Iron should grow red hot, since the swiftest motion at hand will not keep one red that hath been made red by fire; as may be observed in swinging a red hot Iron about, or fastning it into a Wheel; which under that motion will sooner grow cold then without it. That a Bullet also mounts upward upon the horizontall or pointblank discharge, many Artists do not allow: who contend that it describeth a parabolical and bowing line, by reason of its natural gravity inclining it always downward.

But, Beside the prevalence from Salt-petre, as Master-ingredient in the mixture; Sulphur may hold a greater use in the composition and further activity in the exclusion, then is by most conceived. For Sulphur vive makes better Powder then common Sulphur, which nevertheless is of a quick accension. For Small-coal, Salt-petre, and Camphire made into Powder will be of little force, wherein notwithstanding there wants not the accending ingredient. And Cam-
through it flame well, yet will not flush so lively, or defecate Salt-petre, if you inject it thereon, like Sulphur; as in the preparation of Sal prunellae. And lastly, though many ways may be found to light this Powder, yet is there none I know to make a strong and vigorous Powder of Salt-petre, without the admixture of Sulphur. Arsenic red and yellow, that is Orpemel and Sandarach may perhaps do something, as being inflamable and containing Sulphur in them; but containing also a salt, and mercurial mixture, they will be of little effect; and white or crystalline Arsenic of less, for that being artificial, and sublimed with salt, will not endureflammation.

This Antipathy or contention between Salt-petre and Sulphur upon an actual fire, in their compleat and distinct bodies, is also manifested in their preparations, and bodies which invisibly contain them. Thus in the preparation of Crocus Metallorum, the matter kindleth and flusheth like Gunpowder, wherein notwithstanding, there is nothing but Antimony and Salt-petre. But this may proceed from the Sulphur of Antimony, not enduring the society of Salt-petre; for after three or four accensions, through a fresh addition of Petre, the Powder will flush no more, for the sulphur of the Antimony is quite exhaled. Thus Iron in Aqua fortis will fall into ebullition, with noise and emication, as also a crass and fumid exhalation, which are caused from this combat of the sulphur of Iron with the acid and nitrous spirits of Aqua fortis. So is it also in Aurum fulminans, or Powder of Gold dissolved in Aqua Regis, and precipitated with oyl of Tartar, which will kindle without an actual fire, and afford a report like Gun-powder; that is not as Crollius affirmeth from any Antipathy between Sal Armoniac De consensu Chymico-rum, etc.
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and Tartar, but rather between the nitrous spirits of Aqua Regis, commixed per minima with the sulphur of Gold, as Sennertus hath observed.

6. That Coral (which is a Lithophyton or stone-plant, and groweth at the bottom of the Sea) is soft under Water, but waxeth hard in the air, although the assertion of Dioscorides, Pliny, and consequently Solinus, Isidore, Rueus, and many others, and stands believed by most, we have some reason to doubt, especially if we conceive with common Believers, a total softness at the bottom, and this induration to be singly made by the air, not only from so sudden a petrifaction and strange induration, not easily made out from the qualities of air, but because we find it rejected by experimental enquiries. Johannes Be-

In the French Copy.

guinus in his Chapter of the tincture of Coral undertakes to clear the World of this Error, from the express experiment of John Baptista de Nicole, who was Overseer of the gathering of Coral upon the Kingdom of Thunis. This Gentleman, saith he, desirous to find the nature of Coral, and to be resolved how it groweth at the bottom of the Sea, caused a man to go down no less then a hundred fathom, with express to take notice whether it were hard or soft in the place where it groweth. Who returning, brought in each hand a branch of Coral, affirming it was as hard at the bottom, as in the air where he delivered it. The same was also confirmed by a trial of his own, handling it a fathom under water before it felt the air. Boetius in his Tract De Gemmis, is of the same opinion, not ascribing its concretion unto the air, but the coagulating spirits of Salt, and lapidifical juice of the Sea, which entering the parts of that Plant, overcomes its vegetableity, and converts it into a lapideous substance. And this,
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saith he, doth happen when the Plant is ready to decay; for all Coral is not hard, and in many concreted Plants some parts remain unpetrified, that is the quick and livelier parts remain as Wood, and were never yet converted. Now that Plants and ligneous bodies may indurate under Water without approach-ment of air, we have experiment in Coralline, with many Coralloidal concretions; and that little stony Plant which Mr. Johnson nameth, Hippuris coralloides, and Gesner, foliis mansu Arenosis, we have found in fresh water, which is the less concretive portion of that Element. We have also with us the visible petrification of Wood in many waters, whereof so much as is covered with water converteth into stone; as much as is above it and in the air, retaineth the form of Wood, and continueth as before.

Now though in a middle way we may concede, that some are soft and others hard; yet whether all Coral were first a woody substance, and afterward converted; or rather some thereof were never such, but from the sprouting spirit of Salt, were able even in their stony natures to ramifie and send forth branches; as is observ-able in some stones, in silver and metallick bodies, is not without some question. And such at least might some of those be, which Fiarounti observed to grow upon Bricks at the bottom of the Sea, upon the coast of Barbarie.

7. We are not throughly resolved concerning Porcel-lane or China dishes, that according to common belief they are made of Earth, which lieth in preparation about an hundred years under ground; for the relations thereof are not onely divers, but contrary, and Authors agree not herein. Guido Pancirollus will have them made of Egg-shells, Lobster-shells, and Gypsum laid
up in the Earth the space of 80 years: of the same affirmation is Scaliger, and the common opinion of most. Ramusius in his Navigations is of a contrary assertion, that they are made out of Earth, not laid under ground, but hardned in the Sun and Wind, the space of forty years. But Gonzales de Mendoza, a man imploied into China from Philip the second King of Spain, upon enquiry and ocular experience, delivered a way different from all these. For inquiring into the artifice thereof, he found they were made of a Chalky Earth; which beaten and steeped in water, affordeth a cream or fatness on the top, and a gross subsidence at the bottom; out of the cream or superfluitance, the finest dishes, saith he, are made, out of the residence thereof the courser; which being formed, they gild or paint, and not after an hundred years, but presently commit unto the furnace. This, saith he, is known by experience, and more probable then what Odoardus Barbosa hath delivered, that they are made of shells, and buried under earth an hundred years. And answerable in all points hereto, is the relation of Linschotten, a diligent enquirer, in his Oriental Navigations. Later confirmation may be had from Alvarez the Jesuit, who lived long in those parts, in his relations of China. That Porcellane Vessels were made but in one Town of the Province of Chiamisi: That the earth was brought out of other Provinces, but for the advantage of water, which makes them more polite and perspicuous, they were only made in this. That they were wrought and fashioned like those of other Countries, whereof some were tinted blew, some red, others yellow, of which colour only they presented unto the King.

The latest account hereof may be found in the voyage of the Dutch Embassadors sent from Batavia.
unto the Emperour of China, printed in French 1665, which plainly informeth, that the Earth whereof Por-
cellane dishes are made, is brought from the Mountains of Hoang; and being formed into square loaves, is
brought by water, and marked with the Emperours Seal: that the Earth it self is very lean, fine, and shining
like Sand: and that it is prepared and fashioned after the same manner which the Italians observe in the
fine Earthen Vessels of Faventia or Fuenca: that they are so reserved concerning that Artifice, that 'tis only
revealed from Father unto Son: that they are painted with Indico baked in a fire for fifteen days together,
and with very dry and not smoaking Wood: which when the Author had seen he could hardly contain
from laughter at the common opinion above rejected by us.

Now if any enquire, why being so commonly made, and in so short a time, they are become so scarce, or
not at all to be had? The Answer is given by these last Relators, that under great penalties it is forbidden
to carry the first sort out of the Country. And of those surely the properties must be verified, which by
Scaliger and others are ascribed unto China-dishes: That they admit no poison, that they strike fire, that
they will grow hot no higher then the liquor in them ariseth. For such as pass amongst us, and under the
name of the finest, will only strike fire, but not dis-
cover Aconite, Mercury, or Arsenic; but may be useful
in dysenteries and fluxes beyond the other.

8. Whether a Carbuncle (which is esteemed the
best and biggest of Rubies) doth flame in the dark, or
shine like a coal in the night, though generally agreed
on by common Believers, is very much questioned by
many. By Milius, who accounts it a Vulgar Error:
By the learned Boetius, who could not find it verified in that famous one of Rodulphus, which was as big as an Egg, and esteemed the best in Europe. Wherefore although we dispute not the possibility, and the like is said to have been observed in some Diamonds, yet whether herein there be not too high an apprehension, and above its natural radiancy, is not without just doubt: however it be granted a very splendid Gem, and whose sparks may somewhat resemble the glances of fire, and Metaphorically deserve that name. And therefore when it is conceived by some, that this Stone in the Brest-plate of Aaron respected the Tribe of Dan, who burnt the City of Laish; and Sampson of the same Tribe, who fired the Corn of the Philistims; in some sense it may be admitted, and is no intollerable conception.

As for that Indian Stone that shined so brightly in the Night, and pretended to have been shewn to many in the Court of France, as Andreus Chioccius hath declared out of Thuanus, it proved but an imposture, as that eminent Philosopher Licetus hath discovered, and therefore in the revised Editions of Thuanus, it is not to be found. As for the Phosphorus or Bononian Stone, which exposed unto the Sun, and then closely shut up, will afterward afford a light in the dark; it is of unlike consideration, for that requireth calcination or reduction into a dry powder by fire, whereby it imbibeth the light in the vaporious humidity of the air about it, and therefore maintaineth its light not long, but goes out when the vaporious vehicle is consumed.

9. Whether the Ætites or Eagle-stone hath that eminent property to promote delivery or restrain abortion, respectively applied to lower or upward parts of
the body, we shall not discourage common practice by our question: but whether they answer the account thereof, as to be taken out of Eagles nests, co-operating in Women unto such effects, as they are conceived toward the young Eagles: or whether the single signature of one stone included in the matrix and belly of another, were not sufficient at first, to derive this vertue of the pregnant Stone, upon others in impregnation, may yet be farther considered. Many sorts there are of this ratling Stone, beside the Geodes, containing a softer substance in it. Divers are found in England, and one we met with on the Sea-shore, but because many of eminent use are pretended to be brought from Iseland, wherein are divers airies of Eagles, we cannot omit to deliver what we received from a learned person in that Country, Aëtites an in nidis Aquilarum aliquando fuerit repertus, nescio. Nostra certè memoria, etiam inquirentibus non contigit invenisse, quare in fabulis habendum.

10. Terrible apprehensions and answerable unto their names, are raised of Fayrie stones, and Elves spurs, found commonly with us in Stone, Chalk, and Marl-pits, which notwithstanding are no more than Echinometrites and Belemnites, the Sea-Hedge-Hog, and the Dart-stone, arising from some siliceous Roots, and softer then that of Flint, the Master-stone, lying more regularly in courses, and arising from the primary and strongest spirit of the Mine. Of the Echinites, such as are found in Chalk-pits are white, glassie, and built upon a Chalky inside; some of an hard and flinty substance, are found in Stone-pits and elsewhere. Common opinion commendeth them for the Stone, but are most practically used against Films in Horses eyes.

11. Lastly, He must have more heads than Rome
had Hills, that makes out half of those vertues ascribed unto stones, and their not only Medical, but Magical proprieties, which are to be found in Authors of great Name. In Psellus, Scerapion, Evax, Albertus, Aleazar, Marbodeus; in Maiolus, Rucus, Mylius, and many more.

That Lapis Lasuli hath in it a purgative faculty we know; that Bezoar is Antidotal, Lapis Judaicus diuretical, Coral Antepileptical, we will not deny. That Cornelians, Jaspis, Heliotropes, and Blood-stones, may be of vertue to those intentions they are implied, experience and visible effects will make us grant. But that an Amethyst prevents inebriation, that an Emerald will break if worn in copulation. That a Diamond laid under the pillow, will betray the incontinency of a wife. That a Saphire is preservative against enchantments; that the fume of an Agath will avert a tempest, or the wearing of a Crysoprase make one out love with Gold; as some have delivered, we are yet, I confess, to believe, and in that infidelity are likely to end our days. And therefore, they which in the explication of the two Beryls upon the Ephod, or the twelve stones in the Rational or Brest-plate of Aaron, or those twelve which garnished the wall of the holy City in the Apocalyps, have drawn their significations from such as these; or declared their symbolical verities from such traditional falsities, have surely corrupted the sincerity of their Analogies, or misunderstood the mystery of their intentions.

Most men conceive that the twelve stones in Aarons brestplate made a Jewel surpassing any, and not to be parallel’d; which notwithstanding will hardly be made out from the description of the Text, for the names of the Tribes were engraven thereon, which must notably
abate their lustre. Beside, it is not clear made out that the best of Gemms, a Diamond was amongst them; nor is to be found in the list thereof, set down by the Jerusalem Thargum, wherein we find the darker stones of Sardius, Sardonix, and Jasper; and if we receive them under those names wherein they are usually described, it is not hard to contrive a more illustrious and splendid Jewel. But being not ordained for meer lustre by diaphanous and pure tralucencies, their mysterious significations became more considerable than their Gemmary substances; and those no doubt did nobly answer the intention of the Institutes. Beside some may doubt whether there be twelve distinct species of noble traluent Gemms in nature, at least yet known unto us, and such as may not be referred unto some of those in high esteem among us, which come short of the number of twelve; which to make up we must find out some others to match and join with the Diamond, Beryl, Saphyr, Emerald, Amethyst, Topaz, Crysolit, Jacynth, Ruby, and if we may admit it in this number, the Oriental Gyanat.

CHAPTER VI

Of sundry Tenets concerning Vegetables or Plants, which examined, prove either false or dubious.

1. ANY Mola's and false conceptions there are of Mandrakes, the first from great Antiquity, conceiveth the Root thereof resembleth the shape of Man; which is a conceit not to be made out by ordinary inspection, or any other eyes,
then such as regarding the Clouds, behold them in shapes conformable to pre-apprehensions.

Now whatever encouraged the first invention, there have not been wanting many ways of its promotion. The first a Catachrestical and far derived similitude it holds with Man; that is, in a bifurcation or division of the Root into two parts, which some are content to call Thighs; whereas notwithstanding they are oft-times three, and when but two, commonly so complicated and crossed, that men for this deceit are fain to effect their design in other plants; And as fair a resemblance is often found in Carrots, Parsnips, Briony, and many others. There are, I confess, divers Plants which carry about them not only the shape of parts, but also of whole Animals, but surely not all thereof, unto whom this conformity is imputed. Whoever shall peruse the signatures of Crollius, or rather the Phytognomy of Porta, and strictly observe how vegetable Realities are commonly forced into Animal Representations, may easily perceive in very many, the semblance is but postulatory, and must have a more assimilating phansie then mine to make good many thereof.

Illiterate heads have been led on by the name, which in the first syllable expresseth its Representation; but others have better observed the Laws of Etymology, and deduced it from a word of the same language, because it delighteth to grow in obscure and shady places; which derivation, although we shall not stand to maintain, yet the other seemeth answerable unto the Etymologies of many Authors, who often confounded such nominal Notations. Not to enquire beyond our own profession, the Latine Physitians which most adhered unto the Arabick way, have often failed herein; particularly Valescus de Tarranta, a received Physitian,
in whose Philonium or Medical practice these may be observed: Diarhea, saith he, Quia pluries venit in die. Herisepela, quasi harens pilis, Emorrohis, ab emach sanguis & morrohis quod est cadere. Lithargia à Litos quod est oblivio & Targus morbus, Scotomia à Scotus quod est videre, & mias musis. Opthalmia ab opus Græce quod est succus, & Talmon quod est oculosis. Paralisis, quasi læsio partis. Fistula à fós sonus & stolon quod est emission, quasi emission soni vel vocis.

Which are derivations as strange indeed as the other, and hardly to be parallel’d elsewhere; confirming not only the words of one language with another, but creating such as were never yet in any.

The received distinction and common Notation by Sexes, hath also promoted the conceit; for true it is, that Herbalists from ancient times have thus distinguished them, naming that the Male, whose leaves are lighter, and Fruit and Apples rounder; but this is properly no generative division, but rather some note of distinction in colour, figure or operation. For though Empedocles affirm, there is a mixt, and undivided Sex in Vegetables; and Scaliger upon Aristotle, doth favourably explain that opinion; yet will it not consist with the common and ordinary acception, nor yet with Aristotles definition. For if that be Male which generates in another, that Female which procreates in it self; if it be understood of Sexes conjoined, all Plants are Female; and if of disjoined and congressive generation, there is no Male or Female in them at all.

But the Atlas or main Axis which supported this opinion, was dayly experience, and the visible testimony of sense. For many there are in several parts of Europe, who carry about Roots and sell them unto
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ignorant people, which handsomely make out the shape of Man or Woman. But these are not productions of Nature, but contrivances of Art, as divers have noted, and Mathiolus plainly detected, who learned this way of Trumpery from a vagabond cheater lying under his cure for the French disease. His words were these, and may determine the point, *Sed profecto vanum & fabulosum,* etc. But this is vain and fabulous, which ignorant people, and simple women believe; for the roots which are carried about by impostors to deceive unfruitful women, are made of the roots of Canes, Briony and other plants: for in these yet fresh and virent, they carve out the figures of men and women, first sticking therein the grains of Barley or Millet, where they intend the hair should grow; then bury them in sand until the grains shoot forth their roots, which at the longest will happen in twenty days; they afterward clip and trim those tender strings in the fashion of beards and other hairy tegument. All which like other impostures once discovered is easily effected, and in the root of white *Briony* may be practised every spring.

What is therefore delivered in favour thereof, by Authors ancient or modern, must have its root in tradition, imposture, far derived similitude, or casual and rare contingency. So may we admit of the Epithet of *Pythagoras,* who calls it *Anthropomorphus*; and that of *Columella,* who terms it *Semihomo*; more applicable unto the Man-Orchis, whose flower represents a Man. Thus is *Albertus* to be received when he affirmeth, that *Mandrakes* represent man-kind with the distinction of either Sex. Under these restrictions may those Authors be admitted, which for this opinion are introduced by *Drusius*; nor shall we need to
question the monstrous root of Briony described in Aldrovandus.

The second assertion concerneth its production. That it naturally groweth under Gallowses and places of execution, arising from fat or urine that drops from the body of the dead; a story somewhat agreeable unto the fable of the Serpents teeth sowed in the earth by Cadmus; or rather the birth of Orion from the urine of Jupiter, Mercury, and Neptune. Now this opinion seems grounded on the former, that is, a conceived similitude it hath with man; and therefore from him in some way they would make out its production: Which conceit is not only erroneous in the foundation, but injurious unto Philosophy in the superstruction. Making putrifactive generations, correspondent unto seminal productions, and conceiving in equivocal effects and univocal conformity unto the efficient. Which is so far from being verified of animals in their corruptive mutations into Plants, that they maintain not this similitude in their nearer translation into animals. So when the Oxe corrupteth into Bees, or the Horse into Hornets, they come not forth in the image of their originals. So the corrupt and excrementous humours in man are animated into Lice; and we may observe, Generations equivocal, are yet commonly regular and of a determined form or species. That Hogs, Sheep, Goats, Hawks, Hens, and others, have one peculiar and proper kind of vermine; not resembling themselves according to seminal conditions, yet carrying a settled and confined habitude unto their corruptive originals. And therefore come not forth in generations erratical, or different from each other; but seem specifically and in regular shapes to attend the corruption of their bodies, as do more perfect conceptions, the rule of seminal productions.

The third affirmeth the roots of Mandrakes do make
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CHAP. VI a noise, or give a shriek upon eradication; which is indeed ridiculous, and false below confute: arising perhaps from a small and stridulous noise, which being firmly rooted, it maketh upon divulsion of parts. A slender foundation for such a vast conception: for such a noise we sometime observe in other Plants, in Parsenips, Liquorish, Eringium, Flags, and others.

The last concerneth the danger ensuing, That there follows an hazard of life to them that pull it up, that some evil fate pursues them, and they live not very long after. Therefore the attempt hereof among the Ancients, was not in ordinary way; but as Pliny informeth, when they intended to take up the root of this Plant, they took the wind thereof, and with a sword describing three circles about it, they digged it up, looking toward the West. A conceit not only injurious unto truth, and confutable by daily experience, but somewhat derogatory unto the providence of God; that is, not only to impose so destructive a quality on any Plant, but to conceive a Vegetable, whose parts are useful unto many, should in the only taking up prove mortal unto any. To think he suffereth the poison of Nubia to be gathered, Napellus, Aconite, and Thora, to be eradicated, yet this not to be moved. That he permitteth Arsenick and mineral poisons to be forced from the bowels of the Earth, yet not this from the surface thereof. This were to introduce a second forbidden fruit, and inhañce the first malediction, making it not only mortal for Adam to taste the one, but capital unto his posterity to eradicate or dig up the other.

Now what begot, at least promoted so strange conceptions, might be the magical opinion hereof; this being conceived the Plant so much in use with Circe,
and therefore named Circe, as Dioscorides and Theophrastus have delivered, which being the eminent Sorcerers of elder story, and by the magick of simples believed to have wrought many wonders: some men were apt to invent, others to believe any tradition or magical promise thereof.

Analogous relations concerning other plants, and such as are of near affinity unto this, have made its currant smooth, and pass more easily among us. For the same effect is also delivered by Josephus, concerning the root Baarus; by Aelian of Cynospastus; and we read in Homer the very same opinion concerning Moly,

\[
\text{Μῶλυ δὲ μὴν καλέοις θεοὶ: χαλέπων δὲ τ' ὄρυσσεων}
\text{'Ανθράσι γε θυτοίσι: θεοὶ δὲ τε πάντα δύνανται.}
\]

The Gods it Moly call, whose Root to dig away,

Is dangerous unto Man; but Gods, they all things may.

Now parallels or like relations alternately relieve each other, when neither will pass asunder, yet are they plausible together; their mutual concurrences supporting their solitary instabilities.

Signaturists have somewhat advanced it; who seldom omitting what Ancients delivered; drawing into inference received distinction of sex, not willing to examine its humane resemblance; and placing it in the form of strange and magical simples, have made men suspect there was more therein, then ordinary practice allowed; and so became apt to embrace whatever they heard or read conformable unto such conceptions.

Lastly, The conceit promoteth it self: for concerning an effect whose trial must cost so dear, it fortifies it self in that invention; and few there are whose experiment it need to fear. For (what is most contemptible) although not only the reason of any head,
but experience of every hand may well convict it, yet
will it not by divers be rejected; for prepossessed
heads will ever doubt it, and timorous beliefs will
never dare to trie it. So these Traditions how low
and ridiculous soever, will find suspition in some, doubt
in others, and serve as tests or trials of Melancholy and
superstitious tempers for ever.

2. That Cinamon, Ginger, Clove, Mace, and Nutmeg,
are but the several parts and fruits of the same tree,
is the common belief of those which daily use them.
Whereof to speak distinctly, Ginger is the root of
neither Tree nor Shrub, but of an herbaceous Plant,
resembling the Water Flower-De-luce, as Garcias first
described; or rather the common Reed, as Lobelius
since affirmed. Very common in many parts of India,
growing either from Root or Seed, which in December
and January they take up, and gently dried, roll it up
in earth, whereby occluding the pores, they conserve
the natural humidity, and so prevent corruption.

Cinamon is the inward bark of a Cinamon Tree,
whereof the best is brought from Zeilan; this freed
from the outward bark, and exposed unto the Sun,
contracts into those folds wherein we commonly receive
it. If it have not a sufficient isolation it looketh pale,
and attains not its laudable colour; if it be sunned too
long, it suffereth a torrefaction, and descendeth some-
what below it.

Clove seems to be either the rudiment of a fruit, or
the fruit it self growing upon the Clove tree, to be
found but in few Countries. The most commendable is
that of the Isles of Molucca; it is first white, afterward
green, which beaten down, and dried in the Sun,
becometh black, and in the complexion we receive it.

Nutmeg is the fruit of a Tree differing from all these,
and as *Garcias* describeth it, somewhat like a Peach; growing in divers places, but fructifying in the Isle of *Banda*. The fruit hereof consisteth of four parts; the first or outward part is a thick and carnous covering like that of a Wal-nut. The second a dry and flosculos coat, commonly called Mace. The third a harder tegument or shell, which lieth under the Mace. The fourth a Kernel included in the shell, which is the same we call Nutmeg. All which both in their parts and order of disposition, are easily discerned in those fruits, which are brought in preserves unto us.

Now if because Mace and Nutmegs proceed from one Tree, the rest must bear them company; or because they are all from the *East Indies*, they are all from one Plant: the Inference is precipitous, nor will there such a Plant be found in the Herbal of Nature.

3. That Viscus Arboreus or Misseltoe is bred upon Trees, from seeds which Birds, especially Thrushes and Ring-doves let fall thereon, was the Creed of the Ancients, and is still believed among us, is the account of its production, set down by *Pliny*, delivered by *Virgil*, and subscribed by many more. If so, some reason must be assigned, why it groweth onely upon certain Trees, and not upon many whereon these Birds do light. For as Exotick observers deliver, it groweth upon Almond-trees, Chesnut, Apples, Oaks, and Pine-trees. As we observe in *England* very commonly upon Apple, Crabs, and White-thorn; sometimes upon Sallow, Hazel, and Oak: rarely upon Ash, Lime-tree, and Maple; never, that I could observe, upon Holly, Elm, and many more. Why it groweth not in all Countries and places where these Birds are found; for so *Brassavolus* affirmeth, it is not to be found in the Territory of *Ferrara*, and was fain to supply himself
CHAP. VI from other parts of Italy. Why if it ariseth from a seed, if sown it will not grow again, as Pliny affirmeth, and as by setting the Berries thereof, we have in vain attempted its production; why if it cometh from seed that falleth upon the tree, it groweth often downwards, and puts forth under the bough, where seed can neither fall nor yet remain. Hereof beside some others, the Lord Verulam hath taken notice. And they surely speak probably who make it an arboreous excrescence, or rather superplant, bred of a viscous and superfluous sap which the tree itself cannot assimilate. And therefore sprouteth not forth in boughs and surcles of the same shape, and similiary unto the Tree that beareth it; but in a different form, and secondary unto its specific intention, wherein once failing, another form succeedeth: and in the first place that of Misseltoe, in Plants and Trees disposed to its production. And therefore also where ever it groweth, it is of constant shape, and maintains a regular figure; like other supercrescences, and such as living upon the stock of others, are termed parasitical Plants, as Polypody, Moss, the smaller Capillaries, and many more: So that several regions produce several Misseltoes; India one, America another, according to the law and rule of their degenerations.

Now what begot this conceit, might be the enlargement of some part of truth contained in its story. For certain it is, that some Birds do feed upon the berries of this Vegetable, and we meet in Aristotle with one kind of Trush called the Missel Trush, or feeder upon Misseltoe. But that which hath most promoted it, is a received proverb, Turdus sibi malum cacat; appliable unto such men as are authors of their own misfortunes. For according unto ancient tradition and Plinies rela-
tion, the Bird not able to digest the fruit whereon she feedeth; from her inconverted muting ariseth this Plant, of the Berries whereof Birdlime is made, where-with she is after entangled. But although Proverbs be popular principles, yet is not all true that is proverbial; and in many thereof, there being one thing delivered, and another intended; though the verbal expression be false, the Proverb is true enough in the verity of its intention.

As for the Magical vertues in this Plant, and conceived efficacy unto veneficial intentions, it seemeth a Pagan relique derived from the ancient Druides, the great admirers of the Oak, especially the Misseltoe that grew thereon; which according unto the particular of Pliny, they gathered with great solemnity. For after sacrifice the Priest in a white garment ascended the tree, cut down the Misseltoe with a golden hook, and received it in a white coat; the vertue whereof was to resist all poisons, and make fruitful any that used it. Vertues not expected from Classical practice; and did they fully answer their promise which are so commended, in Epileptical intentions, we would abate these qualities. Country practice hath added another, to provoke the after-birth, and in that case the decoction is given unto Cows. That the Berries are poison as some conceive, we are so far from averring, that we have safely given them inwardly; and can confirm the experiment of Brassavolus, that they have some purgative quality.

4. The Rose of Jericho, that flourishes every year just about Christmas Eve, is famous in Christian reports; which notwithstanding we have some reason to doubt, and are plainly informed by Bellonius, it is but a Monastical imposture, as he hath delivered in his
observations, concerning the Plants in Jericho. That which promoted the conceit, or perhaps begot its continuance, was a propriety in this Plant. For though it be dry, yet will it upon imbibition of moisture dilate its leaves, and explicate its flowers contracted, and seemingly dried up. And this is to be effected not only in the Plant yet growing, but in some manner also in that which is brought exuccous and dry unto us. Which quality being observed, the subtilty of contrivers did commonly play this shew upon the Eve of our Saviours Nativity, when by drying the Plant again, it closed the next day, and so pretended a double mystery: referring unto the opening and closing of the womb of Mary.

There wanted not a specious confirmation from a text in Ecclesiasticus, Quasi palma exultata sum in Cades, & quasi plantatio Rose in Jericho: I was exalted like a Palm-tree in Engaddi, and as a Rose in Jericho. The sound whereof in common ears, begat an extraordinary opinion of the Rose of that denomination. But herein there seemeth a mistake: for by the Rose in the Text, is implied the true and proper Rose, as first the Greek, and ours accordingly rendreth it. But that which passeth under this name, and by us is commonly called the Rose of Jericho, is properly no Rose, but a small thorny shrub or kind of Heath, bearing little white flowers, far differing from the Rose; whereof Bellonius a very inquisitive Herbalist, could not find any in his travels thorow Jericho. A Plant so unlike a Rose, it hath been mistaken by some good Simplist for Amomum; which truly understood is so unlike a Rose, that as Dioscorides delivers, the flowers thereof are like the white Violet, and its leaves resemble Briony.

Suitable unto this relation almost in all points is
that of the Thorn at Glassenbury, and perhaps the
daughter hereof; herein our endeavours as yet have
not attained satisfaction, and cannot therefore enlarge.
Thus much in general we may observe, that strange
effects are naturally taken for miracles by weaker
heads, and artificially improved to that apprehension
by wiser. Certainly many precocious Trees, and such
as spring in the Winter, may be found in most parts
of Europe, and divers also in England. For most
Trees do begin to sprout in the Fall of the leaf or
Autumn, and if not kept back by cold and outward
causes, would leaf about the Solstice. Now if it
happen that any be so strongly constituted, as to make
this good against the power of Winter, they may pro-
duce their leaves or blossoms in that season. And
perform that in some singles, which is observable in
whole kinds; as in Ivy, which blossoms and bears at
least twice a year, and once in the Winter; as also in
Furz, which flowereth in that season.

5. That ferrum Equinum, or Sfera Cavallo hath a
vertue attractive of Iron, a power to break locks, and
draw off the shoes of a Horse that passeth over it;
whether you take it for one kind of Securidaca, or will
also take in Lunaria, we know it to be false: and
cannot but wonder at Mathiolus, who upon a parallel
in Pliny was staggered into suspension. Who notwith-
standing in the imputed vertue to open things, close
and shut up, could laugh himself at that promise from
the herb Æthiopis or Æthiopian mullen; and condemn
the judgment of Scipio, who having such a picklock,
would spend so many years in battering the Gates of
Carthage. Which strange and Magical conceit, seems
to have no deeper root in reason, then the figure of
its seed; for therein indeed it somewhat resembles a
CHAP. VI

Horse-shoe; which notwithstanding Baptista Porta hath thought too low a signification, and raised the same unto a Lunar representation.

6. That Bayes will protect from the mischief of Lightning and Thunder, is a quality ascribed thereto, common with the Fig-tree, Eagle, and skin of a Seal. Against so famous a quality, Vicomercatus produceth experiment of a Bay-tree blasted in Italy. And therefore although Tiberius for this intent, did wear a Lawrel upon his Temples, yet did Augustus take a more probable course, who fled under arches and hollow vaults for protection. And though Porta conceive, because in a streperous eruption, it riseth against fire, it doth therefore resist lightning, yet is that no emboldning Illation. And if we consider the threefold effect of Jupiters Trisulk, to burn, discuss, and terebrate; and if that be true which is commonly delivered, that it will melt the blade, yet pass the scabbard; kill the child, yet spare the mother; dry up the wine, yet leave the hogshead entire: though it favour the amulet, it may not spare us; it will be unsure to rely on any preservative, 'tis no security to be dipped in Styx, or clad in the armour of Ceneus. Now that Beer, Wine, and other liquors, are spoiled with lighting and thunder, we conceive it proceeds not onely from noise and concussion of the air, but also noxious spirits, which mingle therewith, and draw them to corruption; whereby they become not only dead themselves, but sometime deadly unto others, as that which Seneca mentioneth; whereof whosoever drank, either lost his life, or else his wits upon it.

7. It hath much deceived the hope of good fellows, what is commonly expected of bitter Almonds, and though in Plutarch confirmed from the practice of
Claudius his Physitian, that Antidote against ebriety hath commonly failed. Surely men much versed in the practice do err in the theory of inebriation; conceiving in that disturbance the brain doth only suffer from exhalations and vaporous ascensions from the stomach, which fat and oylly substances may suppress. Whereas the prevalent intoxication is from the spirits of drink dispersed into the veins and arteries, from whence by common conveyances they creep into the brain, insinuate into its ventricles, and beget those vertigoes accompanying that perversion. And therefore the same effect may be produced by a Glister, the Head may be intoxicated by a medicine at the Heel. So the poisonous bites of Serpents, although on parts at distance from the head, yet having entered the veins, disturb the animal faculties, and produce the effects of drink, or poison swallowed. And so as the Head may be disturbed by the skin, it may the same way be relieved; as is observable in balneations, washings, and fomentations, either of the whole body, or of that part alone.

CHAPTER VII

Of some Insects, and the properties of several Plants.

1. Few ears have escaped the noise of the Dead-watch, that is, the little clickling sound heard often in many rooms, somewhat resembling that of a Watch; and this is conceived to be of an evil omen or prediction of some persons death: wherein notwithstanding there is
nothing of rational presage or just cause of terror unto melancholy and meticulous heads. For this noise is made by a little sheath-winged gray Insect found often in Wainscot, Benches, and Wood-work, in the Summer. We have taken many thereof, and kept them in thin boxes, wherein I have heard and seen them work and knack with a little proboscis or trunk against the side of the box, like Apicus Martius, or Woodpecker against a tree. It worketh best in warm weather, and for the most part giveth not over under nine or eleven stroaks at a time. He that could extinguish the terrifying apprehensions hereof, might prevent the passions of the heart, and many cold sweats in Grandmothers and Nurses, who in the sickness of children, are so startled with these noises.

2. The presage of the year succeeding, which is commonly made from Insects or little Animals in Oak apples, according to the kinds thereof, either Maggot, Fly, or Spider; that is, of Famine, War, or Pestilence; whether we mean that woody excrescence, which shooteth from the branch about May, or that round and Apple-like accretion which groweth under the leaf about the latter end of Summer, is I doubt too distinct, nor verifiable from event.

For Flies and Maggots are found every year, very seldom Spiders: And Helmont affirmeth he could never find the Spider and the Fly upon the same Trees, that is the signs of War and Pestilence, which often go together: Beside, that the Flies found were at first Maggots, experience hath informed us; for keeping these excrescencies, we have observed their conversions, beholding in Magnifying Glasses the daily progression thereof. As may be also observed in other Vegetable excretions, whose Maggots do ter-
minate in Flies of constant shapes; as in the Nutgalls of the Out-landish Oak, and the Mossie tuft of the wild Briar; which having gathered in November we have found the little Maggots which lodged in wooden Cells all Winter, to turn into Flies in June.

We confess the opinion may hold some verity in the Analogy, or Emblematical phansie. For Pestilence is properly signified by the Spider, whereof some kinds are of a very venemous Nature. Famine by Maggots, which destroy the fruits of the Earth. And War not improperly by the Fly; if we rest in the phansie of Homer, who compares the valiant Grecian unto a Fly.

Some verity it may also have in it self, as truly declaring the corruptive constitution in the present sap and nutrimental juice of the Tree; and may consequently discover the disposition of that year, according to the plenty or kinds of these productions. For if the putrifying juices of bodies bring forth plenty of Flies and Maggots, they give forth testimony of common corruption, and declare that the Elements are full of the seeds of putrifaction, as the great number of Caterpillars, Gnats, and ordinary Insects do also declare. If they run into Spiders, they give signs of higher putrifaction, as plenty of Vipers and Scorpions are confessed to do; the putrifying Materials producing Animals of higher mischiefs, according to the advance and higher strain of corruption.

3. Whether all Plants have seed, were more easily determinable, if we could conclude concerning Harts-tongue, Fern, the Caterpillaries, Lunaria, and some others. But whether those little dusty particles, upon the lower side of the leaves, be seeds and seminal parts; or rather, as it is commonly conceived, excremental separations, we have not as yet been able to determine
by any germination or univocal production from them when they have been sowed on purpose: but having set the roots of Harts tongue in a garden, a year or two after there came up three or four of the same Plants, about two yards distance from the first. Thus much we observe, that they seem to renew yearly, and come not fully out till the Plant be in his vigour: and by the help of Magnifying Glasses we find these dusty Atoms to be round at first, and fully representing seeds, out of which at last proceed little Mites almost invisible; so that such as are old stand open, as being emptied of some bodies formerly included; which though discernable in Harts-tongue, is more notoriously discoverable in some differencies of Brake or Fern.

But exquisite Microscopes and Magnifying Glasses have at last cleared this doubt, whereby also long ago the noble Fredericus Cæsius beheld the dusts of Poly-pody as bigg as Pepper corns; and as Johannes Faber testifieth, made draughts on Paper of such kind of seeds, as bigg as his Glasses represented them: and set down such Plants under the Classis of Herbae Tergifætae, as may be observed in his notable Botanical Tables.

4. Whether the sap of Trees runs down to the roots in Winter, whereby they become naked and grow not; or whether they do not cease to draw any more, and reserve so much as sufficeth for conservation, is not a point indubitable. For we observe, that most Trees, as though they would be perpetually green, do bud at the Fall of the leaf, although they sprout not much forward untill the Spring, and warmer weather approacheth; and many Trees maintain their leaves all Winter, although they seem to receive very small advantage in their growth. But that the sap doth powerfully rise in the Spring, to repair that moisture
whereby they barely subsisted in the Winter, and also to put the Plant in a capacity of fructification: he that hath beheld how many gallons of water may in a small time be drawn from a Birch-tree in the Spring, hath slender reason to doubt.

5. That Camphire Eunuchates, or begets in Men an impotency unto Venery, observation will hardly confirm; and we have found it to fail in Cocks and Hens, though given for many days; which was a more favourable trial then that of Scaliger, when he gave it unto a Bitch that was proud. For the instant turgescence is not to be taken off, but by Medicines of higher Natures; and with any certainty but one way that we know, which notwithstanding, by suppressing that natural evacuation, may encline unto Madness, if taken in the Summer.

6. In the History of Prodigies we meet with many showrs of Wheat; how true or probable, we have not room to debate. Only thus much we shall not omit to inform, That what was this year found in many places, and almost preached for Wheat rained from the clouds, was but the seed of Ivy-berries, which somewhat represent it; and though it were found in Steeples and high places, might be conveyed thither, or muted out by Birds: for many feed thereon, and in the crops of some we have found no less then three ounces.

7. That every plant might receive a Name according unto the disease it cureth, was the wish of Paracelsus. A way more likely to multiply Empiricks then Herbalists; yet what is practised by many is advantageous unto neither; that is, relinquishing their proper appellations to re-baptize them by the name of Saints, Apostles, Patriarchs, and Martyrs, to call this the herb of John, that of Peter, this of James, or Joseph, that of
CHAP. VII Mary or Barbara. For hereby apprehensions are made additional unto their proper Natures; whereon superstitious practices ensue, and stories are framed accordingly to make good their foundations.

8. We cannot omit to declare the gross mistake of many in the Nominal apprehension of Plants; to instance but in few. An herb there is commonly called Betonica Pauli, or Pauls Betony; hereof the People have some conceit in reference to St. Paul; whereas indeed that name is derived from Paulus Ægineta, an ancient Physitian of Ægina, and is no more then Speed-well, or Fluellen. The like expectations are raised from Herba Trinitatis; which notwithstanding obtaineth that name from the figure of its leaves, and is one kind of Liverwort, or Hepatica. In Milium Solis, the Epithete of the Sun hath enlarged its opinion; which hath indeed no reference thereunto, it being no more then Lithospermon, or Grummel, or rather Milium Soler; which as Serapion from Aben Juliel hath taught us, because it grew plentifully in the Mountains of Soler, received that appellation. In Jews-ears something is conceived extraordinary from the Name, which is in propriety but Fungus sambucinus, or an excrescence about the Roots of Elder, and concerneth not the Nation of the Jews, but Judas Iscariot, upon a conceit, he hanged on this Tree; and is become a famous Medicine in Quinsies, sore Throats, and strangulations ever since. And so are they deceived in the name of Horse-Raddish, Horse-Mint, Bull-rush, and many more: conceiving therein some prenominal consideration, whereas indeed that expression is but a Grecism, by the prefix of Hippos and Bous, that is, Horse and Bull, intending no more then Great. According whereto the great Dock is called Hippola-
pathum; and he that calls the Horse of Alexander, Great-head, expresseth the same which the Greeks do in Bucephalus.

9. Lastly, Many things are delivered and believed of other Plants, wherein at least we cannot but suspend. That there is a property in Basil to propagate Scorpions, and that by the smell thereof they are bred in the brains of men, is much advanced by Hollerius, who found this Insect in the brains of a man that delighted much in this smell. Wherein beside that we find no way to conjoin the effect unto the cause assigned; herein the Moderns speak but timorously, and some of the Ancients quite contrarily. For, according unto Oribasius, Physitian unto Julian, The Africans, Men best experienced in poisons, affirm, whosoever hath eaten Basil, although he be stung with a Scorpion, shall feel no pain thereby: which is a very different effect, and rather antidotally destroying, then seminally promoting its production.

That the leaves of Catapucia or Spurge, being plucked upward or downward, respectively perform their operations by Purge or Vomit, as some have written, and old wives still do preach, is a strange conceit, ascribing unto Plants positional operations, and after the manner of the Loadstone; upon the Pole whereof if a Knife be drawn from the handle unto the point, it will take up a Needle; but if drawn again from the point to the handle, it will attract it no more.

That Cucumbers are no commendable fruits, that being very waterish, they fill the veins with crude and windy serosities; that containing little Salt or spirit, they may also debilitate the vital acidity, and fermental faculty of the Stomach, we readily concede. But that they should be so cold, as be almost poison by that
quality, it will be hard to allow, without the contradiction of Galen: who accounteth them cold but in the second degree, and in that Classis have most Physitians placed them.

That Elder Berries are poison, as we are taught by tradition, experience will unteach us. And beside the promises of Blochwitius, the healthful effects thereof daily observed will convict us.

That an Ivy Cup will separate Wine from Water, if filled with both, the Wine soaking through, but the Water still remaining, as after Pliny many have averred, we know not how to affirm; who making trial thereof, found both the liquors to soak indistinctly through the bowl.

That Sheep do often get the Rot, by feeding in boggy grounds where Ros-solis growtheth, seems beyond dispute. That this herb is the cause thereof, Shepherds affirm and deny; whether it hath a cordial vertue by sudden reflection, sensible experiment doth hardly confirm, but that it may have a Balsamical and resumptive Vertue, whereby it becomes a good Medicine in Catarrhes and Consumptive dispositions, Practice and Reason conclude. That the lentous drops upon it are not extraneous, and rather an exudation from it self, then a rorid concretion from without, beside other grounds, we have reason to conceive; for having kept the Roots moist and earthed in close chambers, they have, though in lesser plenty, sent out these drops as before.

That Flos Affricanus is poison, and destroyeth Dogs, in two experiments we have not found.

That Yew and the Berries thereof are harmless, we know.

That a Snake will not endure the shade of an Ash,
we can deny. Nor is it inconsiderable what is affirmed by Bellonius; for if his Assertion be true, our apprehension is oftentimes wide in ordinary simples, and in common use we mistake one for another. We know not the true Thyme; the Savourie in our Gardens is not that commended of old; and that kind of Hysop the Ancients used, is unknown unto us, who make great use of another.

We omit to recite the many Vertues, and endless faculties ascribed unto Plants, which sometime occur in grave and serious Authors; and we shall make a bad transaction for truth to concede a verity in half. To reckon up all, it were employment for Archimedes, who undertook to write the number of the Sands. Swarms of others there are, some whereof our future endeavours may discover; common reason I hope will save us a labour in many: Whose absurdities stand naked unto every eye; Errours not able to deceive the Embleme of Justice, and need no Argus to descry them. Herein there surely wants expurgatory animadversions, whereby we might strike out great numbers of hidden qualities; and having once a serious and conceded list, we might with more encouragement and safety attempt their Reasons.
THE THIRD BOOK

Of divers popular and received Tenets concerning Animals, which examined, prove either false or dubious.

CHAPTER I

Of the Elephant.

The first shall be of the Elephant, whereof there generally passeth an opinion it hath no joints; and this absurdity is seconded with another, that being unable to lie down, it sleepeth against a Tree; which the Hunters observing, do saw it almost asunder; whereon the Beast relying, by the fall of the Tree, falls also down itself, and is able to rise no more. Which conceit is not the daughter of later times, but an old and gray-headed error, even in the days of Aristotle, as he delivereth in his Book, De inessu Animalium, and stands successively related by several other authors: by Diodorus Siculus, Strabo, Ambrose, Cassiodore, Solinus, and many more. Now herein methinks men much forget themselves, not well considering the absurdity of such assertions.

For first, they affirm it hath no joints, and yet concede it walks and moves about; whereby they conceive there may be a progression or advancement made
in Motion without inflexion of parts. Now all progression or Animals locomotion being (as Aristotle teacheth) performed *tractu et pulsu*; that is, by drawing on, or impelling forward some part which was before in station, or at quiet; where there are no joints or flexures, neither can there be these actions. And this is true, not onely in Quadrupedes, Volatils, and Fishes, which have distinct and prominent Organs of Motion, Legs, Wings, and Fins; but in such also as perform their progression by the Trunk, as Serpents, Worms, and Leeches. Whereof though some want bones, and all extended articulations, yet have they arthritical Analogies, and by the motion of fibrous and musculous parts, are able to make progression. Which to conceive in bodies inflexible, and without all protrusion of parts, were to expect a Race from *Hercules* his pillars; or hope to behold the effects of *Orpheus* his Harp, when trees found joints, and danced after his Musick.

Again, While men conceive they never lie down, and enjoy not the position of rest, ordained unto all pedestrious Animals, hereby they imagine (what reason cannot conceive) that an Animal of the vastest dimension and longest duration, should live in a continual motion, without that alternity and vicissitude of rest whereby all others continue; and yet must thus much come to pass, if we opinion they lye not down and enjoy no decumbence at all. For station is properly no rest, but one kind of motion, relating unto that which Physitians (from *Galen*) do name extensive or tonical; that is, an extension of the muscles and organs of motion maintaining the body at length or in its proper figure.

Wherein although it seem to be unmoved, it is not
without all Motion; for in this position the muscles are sensibly extended, and labour to support the body; which permitted unto its proper gravity, would suddenly subside and fall unto the earth; as it happeneth in sleep, diseases, and death. From which occult action and invisible motion of the muscles in station (as Galen declareth) proceed more offensive lassitudes then from ambulation. And therefore the Tyranny of some have tormented men with long and enforced station, and though Ixion and Sisiphus which always moved, do seem to have the hardest measure; yet was not Titius favoured, that lay extended upon Caucasus; and Tantalus suffered somewhat more then thirst, that stood perpetually in Hell. Thus Mercurialis in his Gymnasticks justly makes standing one kind of exercise; and Galen when we lie down, commends unto us middle figures, that is, not to lye directly, or at length, but somewhat inflected, that the muscles may be at rest; for such as he termeth Hypobolemaioi or figures, of excess, either shrinking up or stretching out, are wearisome positions, and such as perturb the quiet of those parts. Now various parts do variously discover these indolent and quiet positions, some in right lines, as the wrists: some at right angles, as the cubit: others at oblique angles, as the fingers and the knees: all resting satisfied in postures of moderation, and none enduring the extremity of flexure or extension.

Moreover men herein do strangely forget the obvious relations of history, affirming they have no joints, whereas they dayly read of several actions which are not performable without them. They forget what is delivered by Xiphilinus, and also by Suetonius in the lives of Nero and Galba, that Elephants have been
instructed to walk on ropes, in publick shews before the people. Which is not easily performed by man, and requireth not only a broad foot, but a pliable flexure of joints, and commandible disposure of all parts of progression. They pass by that memorable place in Curtius, concerning the Elephant of King Porus, Indus qui Elephantem regebat, descendere eum ratus, more solito procumbere jussit in genua cæteri quoque (ita enim instituti erant) demisere corpora in terram. They remember not the expression of Osorius, when he speaks of the Elephant presented to Leo the tenth, Pontificem ter genibus flexis, et demisso corporis habitu venerabundus salutavit. But above all, they call not to mind that memorable shew of Germanicus, wherein twelve Elephants danced unto the sound of Musick, and after laid them down in the Tricliniums, or places of festival Recumbency.

They forget the Etymologic of the Knee, approved by some Grammarians. They disturb the position of the young ones in the womb: which upon extension of legs is not easily conceivable; and contrary unto the general contrivance of Nature. Nor do they consider the impossible exclusion thereof, upon extension and rigour of the legs.

Lastly, they forget or consult not experience, whereof not many years past, we have had the advantage in England, by an Elephant shewn in many parts thereof, not only in the posture of standing, but kneeling and lying down. Whereby although the opinion at present be well suppressed, yet from some strings of tradition, and fruitful recurrence of errour, it is not improbable it may revive in the next generation again. This being not the first that hath been seen in England; for (besides some others) as Polydore Virgil relateth, Lewis
the French King sent one to Henry the third, and Emmanuel of Portugal another to Leo the tenth into Italy, where notwithstanding the errour is still alive and epidemical, as with us.

The hint and ground of this opinion might be the gross and somewhat Cylindrical composure of the legs, the equality and less perceptible disposure of the joints, especially in the former legs of this Animal; they appearing when he standeth, like Pillars of flesh, without any evidence of articulation. The different flexure and order of the joints might also countenance the same, being not disposed in the Elephant, as they are in other quadrupedes, but carry a nearer conformity unto those of Man; that is, the bought of the fore-legs, not directly backward, but laterally and somewhat inward; but the hough or suffraginous flexure behind rather outward. Somewhat different unto many other quadrupedes, as Horses, Camels, Deer, Sheep, and Dogs; for their fore-legs bend like our legs, and their hinder legs like our arms, when we move them to our shoulders. But quadrupedes oviparous, as Frogs, Lizards, Crocodiles, have their joints and motive flexures more analogously framed unto ours; and some among viviparous, that is, such thereof as can bring their fore-feet and meat therein unto their mouths, as most can do that have the clavicles or collar-bones: whereby their brests are broader, and their shoulders more asunder, as the Ape, the Monkey, the Squirrel and some others. If therefore any shall affirm the joints of Elephants are differently framed from most of other quadrupedes, and more obscurely and grosly almost then any, he doth herein no injury unto truth. But if à dicto secundum quid ad dictum simpliciter, he affirmeth also they have no articulations at all, he incurs the
controulment of reason, and cannot avoide the contra-
diction also of sense.

As for the manner of their venation, if we consult
historical experience, we shall find it to be otherwise
then as is commonly presumed, by sawing away of
Trees. The accounts whereof are to be seen at large
in Johannes, Hugo, Edwardus Lopez, Garcias ab horto,
Cadamustus, and many more.

Other concernsments there are of the Elephant, which
might admit of discourse; and if we should question
the teeth of Elephants, that is, whether they be pro-
perly so termed, or might not rather be called horns:
it were no new enquirye of mine, but a Paradox as old
as Oppianus. Whether as Pliny and divers since affirm
it, that Elephants are terrified, and make away upon
the grunting of Swine, Garcias ab horto may decide,
who affirmeth upon experience, they enter their stalls,
and live promiscuously in the Woods of Malavar.
That the situation of the genitals is averse, and their
copulation like that which some believe of Camels, as
Pliny hath also delivered, is not to be received; for we
have beheld that part in a different position; and
their coition is made by supersaliency, like that of
horses, as we are informed by some who have beheld
them in that act. That some Elephants have not
only written whole sentences, as Ælian ocularly testi-
fieth, but have also spoken, as Oppianus delivereth,
and Christophorus à Costa particularly relateth;
although it sound like that of Achilles Horse in Homer,
we do not conceive impossible. Nor beside the affinity
of reason in this Animal any such intollerable inca-
pacity in the organs of divers quadrupedes, whereby
they might not be taught to speak, or become imita-
tors of speech like Birds. Strange it is how the

Some Brutes tolerably well organized for speech and approaching to reason.
CHAP. I curiosity of men that have been active in the instruction of Beasts, have never fallen upon this artifice; and among those, many paradoxical and unheard of imitations, should not attempt to make one speak. The Serpent that spake unto Eve, the Dogs and Cats that usually speak unto Witches, might afford some encouragement. And since broad and thick chops are required in Birds that speak, since lips and teeth are also organs of speech; from these there is also an advantage in quadrupedes, and a proximity of reason in Elephants and Apes above them all. Since also an Echo will speak without any mouth at all, articulately returning the voice of man, by only ordering the vocal spirit in concave and hollow places; whether the musculous and motive parts about the hollow mouths of Beasts, may not dispose the passing spirit into some articulate notes, seems a query of no great doubt.

CHAPTER II

Of the Horse.

The second Assertion, that an Horse hath no gall, is very general, nor only swallowed by the people, and common Farriers, but also received by good Veterinarians, and some who have laudably discoursed upon Horses. It seemeth also very ancient; for it is plainly set down by Aristotle, an Horse and all solid ungulous or whole hoofed animals have no gall; and the same is also delivered by Pliny, which notwithstanding we find repugnant unto experience and reason. For first, it calls in

Veterinarians or Farriers.
question the providence or wise provision of Nature; who not abounding in superfluities, is neither deficient in necessities. Wherein nevertheless there would be a main defect, and her improvisation justly accusable, if such a feeding Animal, and so subject unto diseases from bilious causes, should want a proper conveyance for choler; or have no other receptacle for that humour then the Veins, and general mass of bloud.

It is again controllable by experience, for we have made some search and enquiry herein; encouraged by Absyrtus a Greek Author, in the time of Constantine, who in his Hippiasticks, obscurely assigneth the gall a place in the liver; but more especially by Carlo Ruini the Bononian, who in his Anatomia del Cavallo, hath more plainly described it, and in a manner as I found it. For in the particular enquiry into that part, in the concave or simous part of the Liver, whereabout the Gall is usually seated in quadrupedes, I discover an hollow, long and membranous substance, of a pale colour without, and lined with Choler and Gall within; which part is by branches diffused into the lobes and several parcels of the Liver; from whence receiving the fiery superfluity, or cholerick remainder, by a manifest and open passage, it conveyeth it into the duodenum or upper gut, thence into the lower bowels; which is the manner of its derivation in Man and other Animals. And therefore although there be no eminent and circular follicle, no round bag or vesicle which long containeth this humour: yet is there a manifest receptacle and passage of choler from the Liver into the Guts: which being not so shut up, or at least not so long detained, as it is in other Animals: procures that frequent excretion, and occasions the Horse to dung more often then many other, which considering
the plentiful feeding, the largeness of the guts, and their various circumvolution, was prudently contrived by providence in this Animal. For choler is the natural Glister, or one excretion whereby Nature excludeth another; which descending daily into the bowels, extimulates those parts, and excites them unto expulsion. And therefore when this humour aboundeth or corrupteth, there succeeds oft-times a choleric passio, that is, a sudden and vehement Purgation upward and downward: and when the passage of gall becomes obstructed, the body grows costive, and the excrements of the belly white; as it happeneth in the Jaundice.

If any therefore affirm an Horse hath no gall, that is, no receptacle, or part ordained for the separation of Choler, or not that humour at all; he hath both sense and reason to oppose him. But if he saith it hath no bladder of Gall, and such as is observed in many other Animals, we shall oppose our sense, if we gain-say him. Thus must Aristotle be made out when he denieth this part, by this distinction we may relieve Pliny of a contradiction, who in one place affirming an Horse hath no gall, delivereth yet in another, that the gall of an Horse was accounted poison; and therefore at the sacrifices of Horses in Rome, it was unlawful for the Flamen to touch it. But with more difficulty, or hardly at all is that reconcileable which is delivered by our Countryman, and received Veterinarian; whose words in his Master-piece, and Chapter of diseases from the Gall, are somewhat too strict, and scarce admit a Reconciliation. The fallacie therefore of this conceit is not unlike the former; A dicto secundum quid ad dictum simpliciter. Because they have not a bladder of gall, like those we usually observe in others, they have no gall at all. Which is a Paralogism not
admittible; a fallacy that dwels not in a cloud, and needs not the Sun to scatter it.

CHAPTER III

Of the Dove.

The third assertion is somewhat like the second, that a Dove or Pigeon hath no gall; which is affirmed from very great antiquity; for as Pierius observeth, from this consideration the Egyptians did make it the Hieroglyphick of Meekness. It hath been averred by many holy Writers, commonly delivered by Postillers and Commentators; who from the frequent mention of the Dove in the Canticles, the precept of our Saviour, to be wise as Serpents, and innocent as Doves: and especially the appearance of the Holy Ghost in the similitude of this Animal, have taken occasion to set down many affections of the Dove, and what doth most commend it, is, that it hath no gall. And hereof have made use not only Minor Divines, but Cyprian, Austin, Isidore, Beda, Rupertus, Jansenius, and many more.

Whereto notwithstanding we know not how to assent, it being repugnant unto the Authority and positive determination of ancient Philosophy. The affirmative of Aristotle in his History of Animals is very plain, Fel aliis ventri, aliis intestino jungitur: Some have the gall adjoined to the guts, as the Crow, the Swallow, Sparrow, and the Dove; the same is also attested by Pliny, and not without some passion by Galen, who in his Book De Atra bile, accounts him ridiculous that denies it.

It is not agreeable to the constitution of this
Animal, nor can we so reasonably conceive there wants a Gall: that is, the hot and fiery humour in a body so hot of temper, which Phlegm or Melancholy could not effect. Now of what complexion it is, Julius Alexandrinus declareth, when he affirmeth that some upon the use thereof, have fallen into Feavers and Quinsies. The temper of their Dung and intestinal Excretions do also confirm the same; which Topically applied become a Phænigmus or Rubifying Medicine, and are of such fiery parts, that as we read in Galen, they have of themselves conceived fire, and burnt a house about them. And therefore when in the famine of Samaria (wherein the fourth part of a Cab of Pigeons dung was sold for five pieces of silver,) it is delivered by Josephus, that men made use hereof in stead of common Salt: although the exposition seem strange, it is more probable then many other. For that it containeth very much Salt, as beside the effects before expressed, is discernable by taste, and the earth of Columbaries or Dove-houses, so much desired in the artifice of Salt-petre. And to speak generally, the Excrement of Birds hath more of Salt and acrimony, then that of other pissing animals. Now if because the Dove is of a mild and gentle nature, we cannot conceive it should be of an hot temper; our apprehensions are not distinct in the measure of constitutions, and the several parts which evidence such conditions. For the Irascible passions do follow the temper of the heart, but the concupiscible distractions the crasis of the liver. Now many have hot livers, which have but cool and temperate hearts; and this was probably the temper of Paris, a contrary constitution to that of Ajax, and both but short of Medea, who seemed to exceed in either.

Whence the irascible, whence the concupiscible Passions do most arise.
Lastly, it is repugnant to experience, for Anatomical enquiry discovereth in them a gall: and that according to the determination of Aristotle, not annexed unto the liver, but adhering unto the guts: nor is the humour contained in smaller veins, or obscurer capillations, but in a vesicle, or little bladder, though some affirm it hath no bag at all. And therefore the Hieroglyphick of the Egyptians, though allowable in the sense, is weak in the foundation: who expressing meekness and lenity by the portract of a Dove with a tail erected, affirmed it had no gall in the inward parts, but only in the rump, and as it were out of the body. And therefore also if they conceived their gods were pleased with the sacrifice of this Animal, as being without gall, the ancient Heathens were surely mistaken in the reason, and in the very oblation. Whereas in the holocaust or burnt-offering of Moses, the gall was cast away: for as Ben Maimon instructeth, the inwards whereto the gall adhereth were taken out with the crop, according unto the Law: which the Priest did not burn, but cast unto the East, that is, behind his back, and readiest place to be carried out of the Sanctuary. And if they also conceived that for this reason they were the Birds of Venus, and wanting the furious and discording part, were more acceptable unto the Deity of Love, they surely added unto the conceit, which was at first venereal: and in this Animal may be sufficiently made out from that conception.

The ground of this conceit is partly like the former, the obscure situation of the gall, and out of the liver, wherein it is commonly enquired. But this is a very unjust illation, not well considering with what variety this part is seated in Birds. In some both at the stomach and the liver, as in the Capriceps; in some at
the liver only, as in Cocks, Turkeys, and Pheasants; in others at the guts and liver, as in Hawks and Kites, in some at the guts alone, as Crows, Doves, and many more. And these perhaps may take up all the ways of situation, not only in Birds, but also other Animals; for what is said of the Anchovie, that answerable unto its name, it carrieth the gall in the head, is farther to be enquired. And though the discoloured particles in the skin of an Heron be commonly termed Galls, yet is not this Animal deficient in that part, but containeth it in the Liver. And thus when it is conceived that the eyes of Tobias were cured by the gall of the fish Callyonimus, or Scorpius marinus, commended to that effect by Dioscorides, although that part were not in the liver, yet there were no reason to doubt that probability. And whatsoever Animal it was, it may be received without exception, when it’s delivered, the married couple as a testimony of future concord, did cast the gall of the sacrifice behind the Altar.

A strict and literal acception of a loose and tropical expression was a second ground hereof. For while some affirmed it had no gall, intending only thereby no evidence of anger or fury; others have construed it anatomically, and denied that part at all. By which illation we may infer, and that from sacred Text, a Pigeon hath no heart; according to that expression, Factus est Ephraim sicut Columba seducta non habens Cor. And so from the letter of the Scripture we may conclude it is no mild, but a fiery and furious animal, according to that of Jeremy, Facta est terra in desolationem à facie ire Coluiam; and again, Revertamur ad terram nativitatis nostræ à facie gladii Columbæ. Where notwithstanding the Dove is not literally
intended; but thereby may be implied the Babylonians, whose Queen Semiramis was called by that name, and whose successors did bear the Dove in their Standard. So is it proverbially said, *Formicæ sua bilis inest, habet et musca splenem*; whereas we know Philosophy doubteth these parts, nor hath Anatomy so clearly discovered them in those insects.

If therefore any affirm a Pigeon hath no gall, implying no more thereby then the lenity of this Animal, we shall not controvert his affirmation. Thus may we make out the assertions of Ancient Writers, and safely receive the expressions of Divines and worthy Fathers. But if by a transition from Rhetorick to Logick, he shall contend, it hath no such part or humour, he committeth an open fallacy, and such as was probably first committed concerning Spanish Mares, whose swiftness tropically expressed from their generation by the wind; might after be grossly taken, and a real truth conceived in that conception.

**CHAPTER IV**

**Of the Bever.**

**T**hat a Bever to escape the Hunter, bites off his testicles or stones, is a Tenet very ancient; and hath had thereby advantage of propagation. For the same we find in the Hieroglyphicks of the Egyptians in the Apologue of Æsop, an Author of great Antiquity, who lived in the beginning of the Persian Monarchy, and in the time of Cyrus: the same is touched by Aristotle in his Ethicks, but seriously delivered by Ælian, Pliny, and Solinus: the same we meet with in Juvenal, who by a
handsome and Metrical expression more welcomly engrafts it in our junior Memories:

--- imitatus Castora, qui se
Eunuchum ipse facit, cupiens evadere damno
Testiculorum, adeo medicatum intelligit inguen.

It hath been propagated by Emblems: and some have been so bad Grammarians as to be deceived by the Name, deriving Castor à castrando, whereas the proper Latine word is Fiber, and Castor but borrowed from the Greek, so called quasi γαστρό, that is, Animal ventricosum, from his swaggy and prominent belly.

Herein therefore to speak compendiously, we first presume to affirm that from strict enquiry, we cannot maintain the evulsion or biting off any parts, and this is declarable from the best and most professed Writers: for though some have made use hereof in a Moral or Tropical way, yet have the professed Discoursers by silence deserted, or by experience rejected this assertion. Thus was it in ancient times discovered, and experimentally refuted by one Sestius a Physitian, as it stands related by Pliny; by Dioscorides, who plainly affirms that this tradition is false; by the discoveries of Modern Authors, who have expressly discoursed hereon, as Aldrovandus, Mathiulus, Gesnerus, Bellonius; by Olaus Magnus, Peter Martyr, and others, who have described the manner of their Venations in America; they generally omitting this way of their escape, and have delivered several other, by which they are daily taken.

The original of the conceit was probably Hieroglyphical, which after became Mythological unto the Greeks, and so set down by Æsop; and by process of tradition, stole into a total verity, which was but partially true, that is in its covert sense and Morality.
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Now why they placed this invention upon the Bever (beside the Medicable and Merchantable commodity of Castoreum, or parts conceived to be bitten away) might be the sagacity and wisdom of that Animal, which from the works it performs, and especially its Artifice in building, is very strange, and surely not to be matched by any other. Omitted by Plutarch, De solertia Animalium, but might have much advantaged the drift of that Discourse.

If therefore any affirm a wise man should demean himself like the Bever, who to escape with his life, contemneth the loss of his genitals, that is in case of extremity, not strictly to endeavour the preservation of all, but to sit down in the enjoyment of the greater good, though with the detriment and hazard of the lesser; we may hereby apprehend a real and useful Truth. In this latitude of belief, we are content to receive the Fable of Hippomanes, who redeemed his life with the loss of a Golden Ball; and whether true or false, we reject not the Tragedy of Absyrtus, and the dispersion of his Members by Medea, to perplex the pursuit of her Father. But if any shall positively affirm this act, and cannot believe the Moral, unless he also credit the Fable; he is surely greedy of delusion, and will hardly avoid deception in theories of this Nature. The Error therefore and Alogy in this opinion, is worse then in the last; that is, not to receive Figures for Realities, but expect a verity in Apologues; and believe, as serious affirmations, confessed and studied Fables.

Again, If this were true, and that the Bever in chase makes some divulsion of parts, as that which we call Castoreum; yet are not the same to be termed Testicles or Stones; for these Cods or Follicles are found in
both Sexes, though somewhat more protuberant in the Male. There is hereto no derivation of the seminal parts, nor any passage from hence, unto the Vessels of Ejaculation: some perforations onely in the part it self, through which the humour included doth exudate: as may be observed in such as are fresh, and not much dried with age. And lastly, The Testicles properly so called, are of a lesser magnitude, and seated inwardly upon the loins: and therefore it were not only a fruitless attempt, but impossible act, to Eunuchate or castrate themselves: and might be an hazardous practice of Art, if at all attempted by others.

Now all this is confirmed from the experimental Testimony of five very memorable Authors: Bellonius, Gesnerus, Amatus, Rondeletius, and Mathiolus: who receiving the hint hereof from Rondeletius in the Anatomy of two Bevers, did find all true that had been delivered by him, whose words are these in his learned Book De Piscibus: Fibri in inguinibus geminos tumores habent, utrinque vnicum, ovi Anserini magnitudine, inter hos est mentula in maribus, in fæminis pudendum, hi tumores testes non sunt, sed folliculi membrana contecti, in quorum medio singuli sunt meatus è quibus exudat liquor pinguis et cerosus, quem ipse Castor sæpe admoto ore lambit et exugit, postea veluti oleo, corporis partes oblinit: Hos tumores testes non esse hinc maxime col·ligitur, quod ab illis nulla est ad mentulam via neque ductus quo humor in mentula meatum derivitur, et foras emittatur; præterea quod testes intus reperiuntur, eosdem tumores Moscho animali inesse puto, è quibus odoratum illud plus emanat. Then which words there can be no plainer, nor more evidently discovering the impropriety of this appellation. That which is included in the cod or visible bag about the groin, being not the
Testicle, or any spermatical part; but rather a collection of some superfluous matter defloowing from the body, especially the parts of nutrition as unto their proper emunctories; and as it doth in Musk and Civet Cats, though in a different and offensive odour; proceeding partly from its food, that being especially Fish; whereof this humour may be a garous excretion and odious separation.

Most therefore of the Moderns before Rondeletius, and all the Ancients excepting Sestius, have misunderstood this part, conceiving Castoreum the Testicles of the Bever; as Dioscorides, Galen, Ægineta, Ætius, and others have pleased to name it. The Egyptians also failed in the ground of their Hieroglyphick, when they expressed the punishment of Adultery by the Bever depriving himself of his testicles, which was amongst them the penalty of such incontinency. Nor is Ætius perhaps, too strictly to be observed, when he prescribeth the stones of the Otter, or River-dog, as succedaneous unto Castoreum. But most inexcusable of all is Pliny; who having before him in one place the experiment of Sestius against it, sets down in another, that the Bevers of Pontus bite off their testicles: and in the same place affirmeth the like of the Hyena. Which was indeed well joined with the Bever, as having also a bag in those parts; if thereby we understand the Hyena odorata, or Civet Cat, as is delivered and graphically described by Castellus.

Now the ground of this mistake might be the resemblance and situation of these tumours about those parts, wherein we observe the testicles in other animals. Which notwithstanding is no well founded illation, for the testicles are defined by their office, and not determined by place or situation; they having
one office in all, but different seats in many. For beside that, no Serpent, or Fishes oviparous, that neither biped nor quadruped oviparous have testicles exteriorly, or prominent in the groin; some also that are viviparous contain these parts within, as beside this Animal, the Elephant and the Hedg-hog.

If any therefore shall term these testicles, intending metaphorically, and in no strict acception; his language is tolerable, and offends our ears no more then the Tropical names of Plants: when we read in Herbals, of Dogs, Fox, and Goat-stones. But if he insisteth thereon, and maintaineth a propriety in this language: our discourse hath overthrown his assertion, nor will Logic permit his illation; that is, from things alike, to conclude a thing the same; and from an accidental convenience, that is a similitude in place or figure, to infer a specifical congruity or substantial concurrence in Nature.

CHAPTER V

Of the Badgèr.

THAT a Brock or Badger hath the legs on one side shorter then of the other, though an opinion perhaps not very ancient, is yet very general; received not only by Theorists and unexperienced believers, but assented unto by most who have the opportunity to behold and hunt them daily. Which notwithstanding upon enquiry I find repugnant unto the three Determinators of Truth, Authority, Sense, and Reason. For first, Albertus Magnus speaks dubiously, confessing he could not confirm the verity hereof; but Aldrovandus plainly
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affirmeth, there can be no such inequality observed. And for my own part, upon indifferent enquiry, I cannot discover this difference, although the regardable side be defined, and the brevity by most imputed unto the left.

Again, It seems no easie affront unto Reason, and generally repugnant unto the course of Nature; for if we survey the total set of Animals, we may in their legs, or Organs of progression, observe an equality of length, and parity of Numeration; that is, not any to have an odd legg, or the supporters and movers of one side not exactly answered by the other. Although the hinder may be unequal unto the fore and middle legs, as in Frogs, Locusts, and Grasshoppers; or both unto the middle, as in some Beetles and Spiders, as is determined by Aristotle, De inessu Animalium. Perfect and viviparous quadrupeds, so standing in their position of proneness, that the opposite joints of Neighbour-legs consist in the same plane; and a line descending from their Navel intersects at right angles the axis of the Earth. It happeneth often I confess that a Lobster hath the Chely or great claw of one side longer then the other; but this is not properly their leg, but a part of apprehension, and whereby they hold or seiz upon their prey; for the legs and proper parts of progression are inverted backward, and stand in a position opposite unto these.

Lastly, The Monstrosity is ill contrived, and with some disadvantage; the shortness being affixed unto the legs of one side, which might have been more tolerably placed upon the thwart or Diagonal Movers. For the progression of quadrupeds being performed per Diametrum, that is the cross legs moving or resting together, so that two are always in motion, and two in
station at the same time; the brevity had been more tolerable in the cross legs. For then the Motion and station had been performed by equal legs; whereas herein they are both performed by unequal Organs, and the imperfection becomes discoverable at every hand.

CHAPTER VI

Of the Bear.

THAT a Bear brings forth her young informous and unshapen, which she fashioneth after by licking them over, is an opinion not only vulgar, and common with us at present: but hath been of old delivered by ancient Writers. Upon this foundation it was an Hieroglyphick with the Egyptians: Aristotle seems to countenance it; Solinus, Pliny, and Ælian directly affirm it, and Ovid smoothly delivereth it:

\begin{quote}
Nec catulus partu quem reddidit ursa recenti
Sed male viva caro est, tumbendo mater in artus
Ducit, et in formam qualem cupit ipsa reducit.
\end{quote}

Which notwithstanding is not only repugnant unto the sense of every one that shall enquire into it, but the exact and deliberate experiment of three Authentick Philosophers. The first of Mathiolus in his Comment on Dioscorides, whose words are to this effect. In the Valley of Anania about Trent, in a Bear which the Hunters eventerated or opened, I beheld the young ones with all their parts distinct: and not without shape, as many conceive; giving more credit unto Aristotle and Pliny, then experience and their proper senses. Of the same assurance was Julius
Scaliger in his Exercitations, Ursam fietus informes potius ejicere, quam parere, si vera dicunt, quos postea linctu effingat: Quid hujusce fabulæ authoribus fidei habendum ex hac historia cognosces; In nostris Alpibus venatores fætum Ursam cepere, dissecta ea fætus plane formatus intus inventus est. And lastly, Aldrovandus who from the testimony of his own eyes affirmeth, that in the Cabinet of the Senate of Bononia, there was preserved in a Glass a Cub taken out of a Bear perfectly formed, and compleat in every part.

It is moreover injurious unto Reason, and much impugneth the course and providence of Nature, to conceive a birth should be ordained before there is a formation. For the conformation of parts is necessarily required, not onely unto the pre-requisites and previous conditions of birth, as Motion and Animation: but also unto the parturition or very birth it self: Wherein not only the Dam, but the younglings play their parts; and the cause and act of exclusion proceedeth from them both. For the exclusion of Animals is not meerly passive like that of Eggs, nor the total action of delivery to be imputed unto the Mother: but the first attempt beginneth from the Infant: which at the accomplished period attempteth to change his Mansion: and struggling to come forth, dilacerates and breaks those parts which restrained him before.

Beside (what few take notice of) Men hereby do in an high measure vilifie the works of God, imputing that unto the tongue of a Beast, which is the strangest Artifice in all the acts of Nature; that is the formation of the infant in the Womb, not only in Mankind, but all viviparous Animals. Wherein the plastick or formative faculty, from matter appearing Homogeneous,
and of a similary substance, erecteth Bones, Mem-

branes, Veins, and Arteries: and out of these contriveth
every part in number, place, and figure, according to
the law of its species. Which is so far from being
fashioned by any outward agent, that once omitted or
perverted by a slip of the inward Phidias, it is not
reducible by any other whatsoever. And therefore
Mirè me plasmaverunt manus tue, though it originally
respected the generation of Man, yet is it appliable
unto that of other Animals; who entring the Womb
in bare and simple Materials, return with distinction
of parts, and the perfect breath of life. He that shall
consider these alterations without, must needs conceive
there have been strange operations within; which to
behold, it were a spectacle almost worth ones beeing,
a sight beyond all; except that Man had been created
first, and might have seen the shew of five dayes after.

Now as the opinion is repugnant both unto sense
and Reason, so hath it probably been occasioned from
some slight ground in either. Thus in regard the
Cub comes forth involved in the Chorion, a thick and
tough Membrane obscuring the formation, and which
the Dam doth after bite and tear asunder; the beholder
at first sight conceives it a rude and informous lump of
flesh, and imputes the ensuing shape unto the Mouth-
ing of the Dam; which addeth nothing thereunto, but
only draws the curtain, and takes away the vail which
concealed the Piece before. And thus have some
endeavoured to enforce the same from Reason; that
is, the small and slender time of the Bears gestation,
or going with her young; which lasting but few days
(a Month some say) the exclusion becomes precipitous,
and the young ones consequently informous; according
to that of Solinus, Trigesimus dies uterum liberat ursæ;
unde evenit ut præcipitata sæcunditas informes creet partus. But this will overthrow the general Method of Nature in the works of generation. For therein the conformation is not only antecedent, but proportionable unto the exclusion; and if the period of the birth be short, the term of conformation will be as sudden also. There may I confess from this narrow time of gestation ensue a Minority or smallness in the exclusion; but this however inferreth no informity, and it still receiveth the Name of a natural and legitimate birth; whereas if we affirm a total informity, it cannot admit so forward a term as an Abortion, for that supposeth conformation. So we must call this constant and intended act of Nature, a slip or effluxion, that is an exclusion before conformation: before the birth can bear the name of the Parent, or be so much as properly called an Embryon.

CHAPTER VII

Of the Basilisk.

ANY Opinions are passant concerning the Basilisk or little King of Serpents, commonly called the Cockatrice: some affirming, others denying, most doubting the relations made hereof. What therefore in these uncertainties we may more safely determine: that such an Animal there is, if we evade not the testimony of Scripture and humane Writers, we cannot safely deny. So it is said Psalm 91. Super · Aspidem et Basiliscum ambulabis, wherein the Vulgar Translation retaineth the Word of the Septuagint, using in other places the Latine expression Regulus, as Proverbs 23. Mordebit ut coluber, et sicut
Regulus venena diffundet: and Jeremy 8. Ecce ego mittum vobis serpentes Regulos, etc. That is, as ours translate it, Behold I will send Serpents, Cockatrices among you which will not be charmed, and they shall bite you. And as for humane Authors, or such as have discoursed of Animals, or Poisons, it is to be found almost in all: in Dioscorides, Galen, Pliny, Solinus, Ælian, Ætius, Avicen, Ardoynus, Grevinus, and many more. In Aristotle I confess we find no mention thereof, but Scaliger in his Comment and enumeration of Serpents, hath made supply; and in his Exercitations delivereth that a Basilisk was found in Rome, in the days of Leo the fourth. The like is reported by Sigonius; and some are so far from denying one, that they have made several kinds thereof: for such is the Catoblepas of Pliny conceived to be by some, and the Dryinus of Ætius by others.

But although we deny not the existence of the Basilisk, yet whether we do not commonly mistake in the conception hereof, and call that a Basilisk which is none at all, is surely to be questioned. For certainly that which from the conceit of its generation we vulgarly call a Cockatrice, and wherein (but under a different name) we intend a formal Identity and adequate conception with the Basilisk; is not the Basilisk of the Ancients, whereof such wonders are delivered. For this of ours is generally described with legs, wings, a Serpentine and winding tail, and a crist or comb somewhat like a Cock. But the Basilisk of elder times was a proper kind of Serpent, not above three palms long, as some account; and differenced from other Serpents by advancing his head, and some white marks or coronary spots upon the crown, as all authentick Writers have delivered.
Nor is this Cockatrice only unlike the Basilisk, but of no real shape in Nature; and rather an Hieroglyphical fansie, to express different intentions, set forth in different fashions. Sometimes with the head of a Man, sometime with the head of an Hawk, as Pierius hath delivered; and as with addition of legs the Heralds and Painters still describe it. Nor was it only of old a symbolical and allowable invention, but is now become a manual contrivance of Art, and artificial imposition; whereof besides others, Scaliger hath taken notice: Basilici formam mentiti sunt vulgo Gallinaceo similem, et pedibus binis; neque enim absimiles sunt cæteris serpentibus, nisi macula quasi in vertice candida, unde illi nomen Regium; that is, men commonly counterfeit the form of a Basilisk with another like a Cock, and with two feet; whereas they differ not from other serpents, but in a white speck upon their Crown. Now although in some manner it might be counterfeited in Indian Cocks, and flying Serpents, yet is it commonly contrived out of the skins of Thornbacks, Scaits, or Maids, as Aldrovand hath observed, and also graphically described in his excellent Book of Fishes; and for satisfaction of my own curiosity I have caused some to be thus contrived out of the same Fishes.

Nor is onely the existency of this animal considerable, but many things delivered thereof, particularly its poison and its generation. Concerning the first, according to the doctrine of the Ancients, men still affirm, that it killeth at a distance, that it poisoneth by the eye, and by priority of vision. Now that deleterious Destructive, it may be at some distance, and destructive without corporal contaction, what uncertainty soever there be in the effect, there is no high improbability in the relation. For if Plagues or pestilential Atoms have
been conveyed in the Air from different Regions, if men at a distance have infected each other, if the shadows of some trees be noxious, if Torpedoes deliver their opium at a distance, and stupifie beyond themselves; we cannot reasonably deny, that (beside our gross and restrained poisons requiring contiguity unto their actions) there may proceed from subtiller seeds, more agile emanations, which contemn those Laws, and invade at distance unexpected.

That this venenation shooteth from the eye, and that this way a Basilisk may empoison, although thus much be not agreed upon by Authors, some imputing it unto the breath, others unto the bite, it is not a thing impossible. For eyes receive offensive impressions from their objects, and may have influences destructive to each other. For the visible species of things strike not our senses immaterially, but streaming in corporal rays, do carry with them the qualities of the object from whence they flow, and the medium through which they pass. Thus through a green or red Glass all things we behold appear of the same colours; thus sore eyes affect those which are sound, and themselves also by reflection, as will happen to an inflamed eye that beholds it self long in a Glass; thus is fascination made out, and thus also it is not impossible, what is affirmed of this animal, the visible rays of their eyes carrying forth the subtillest portion of their poison, which received by the eye of man or beast, infecteth first the brain, and is from thence communicated unto the heart.

But lastly, That this destruction should be the effect of the first beholder, or depend upon priority of aspection, is a point not easily to be granted, and very hardly to be made out upon the principles of Aristotle,
Alhazen, Vitello, and others, who hold that sight is made by Reception, and not by extramission; by receiving the raies of the object into the eye, and not by sending any out. For hereby although he behold a man first, the Basilisk should rather be destroyed, in regard he first receiveth the rayes of his Antipathy, and venomous emissions which objectively move his sense; but how powerful soever his own poison be, it invadeth not the sense of man, in regard he beholdeth him not. And therefore this conceit was probably begot by such as held the opinion of sight by extramission; as did Pythagoras, Plato, Empedocles, Hipparchus, Galen, Macrobius, Proclus, Simplicius, with most of the Ancients, and is the postulate of Euclide in his Opticks, but now sufficiently convicted from observations of the Dark Chamber.

As for the generation of the Basilisk, that it proceedeth from a Cocks egg hatched under a Toad or Serpent, it is a conceit as monstrous as the brood itself. For if we should grant that Cocks growing old, and unable for emission, amass within themselves some seminal matter, which may after conglobate into the form of an egg, yet will this substance be unfruitful. As wanting one principle of generation, and a commixture of both sexes, which is required unto production, as may be observed in the eggs of Hens not trodden; and as we have made trial in some which are termed Cocks eggs. It is not indeed impossible that from the sperm of a Cock, Hen, or other Animal, being once in putrescence, either from incubation or otherwise, some generation may ensue, not univocal and of the same species, but some imperfect or monstrous production, even as in the body of man from putrid humours, and peculiar ways of corruption, there have succeeded
strange and unseconded shapes of worms; whereof we have beheld some our selves, and read of others in medical observations. And so may strange and venomous Serpents be several ways engendered; but that this generation should be regular, and alway produce a Basilisk, is beyond our affirmation, and we have good reason to doubt.

Again, It is unreasonable to ascribe the equivocacy of this form unto the hatching of a Toad, or imagine that diversifies the production, For Incubation alters not the species, nor if we observe it, so much as concurs either to the sex or colour: as appears in the eggs of Ducks or Partridges hatched under a Hen, there being required unto their exclusion only a gentle and continued heat: and that not particular or confined unto the species or parent. So have I known the seed of Silk-worms hatched on the bodies of women: and Pliny reports that Livia the wife of Augustus hatched an egg in her bosome. Nor is only an animal heat required hereto, but an elemental and artificial warmth will suffice: for as Diodorus delivereth, the Ægyptians were wont to hatch their eggs in Ovens, and many eye-witnesses confirm that practice unto this day. And therefore this generation of the Basilisk, seems like that of Castor and Helena; he that can credit the one, may easily believe the other: that is, that these two were hatched out of the egg which Jupiter in the form of a Swan, begat on his Mistress Leda.

The occasion of this conceit might be an Ægyptian tradition concerning the Bird Ibis: which after became transferred unto Cocks. For an opinion it was of that Nation, that the Ibis feeding upon Serpents, that venomous food so inquinated their oval conceptions, or eggs within their bodies, that they sometimes came
forth in Serpentine shapes, and therefore they always brake their eggs, nor would they endure the Bird to sit upon them. But how causeless their fear was herein, the daily incubation of Ducks, Pea-hens, and many other testifie, and the Stork might have informed them; which Bird they honoured and cherished, to destroy their Serpents.

That which much promoted it, was a misapprehension of holy Scripture upon the Latine translation in Esa. 51, Ova aspidum ruperunt et telas: Arenearum texerunt, qui comedent de ovis eorum morietur, et quod confotum est, erumpet in Regulum. From whence notwithstanding, beside the generation of Serpents from eggs, there can be nothing concluded; and what kind of Serpents are meant, not easie to be determined, for Translations are here very different: Tremellius rendering the Asp Hæmorrhous, and the Regulus or Basilisk a Viper, and our translation for the Asp sets down a Cockatrice in the Text, and an Adder in the margin.

Another place of Esay doth also seem to countenance it, Chap. 14. Ne laeteris Philistea quoniam diminuta est virga percussoris tui, de radice enim colubri egredietur Regulus, et semen ejus absorbens volucrem, which ours somewhat favourably rendereth: Out of the Serpents Root shall come forth a Cockatrice, and his fruit shall be a fiery flying Serpent. But Tremellius, è radice Serpentis prodit Hæmorrhous, et fructus illius præster volans; wherein the words are different, but the sense is still the same; for therein are figuratively intended Uzziah and Ezechias; for though the Philistines had escaped the minor Serpent Uzziah, yet from his stock a fiercer Snake should arise, that would more terribly sting them, and that was Ezeckias.

But the greatest promotion it hath received from a
misunderstanding of the Hieroglyphical intention.

For being conceived to be the Lord and King of Serpents, to aw all others, nor to be destroyed by any; the Ægyptians hereby implied Eternity, and the awful power of the supreme Deitie: and therefore described a crowned Asp or Basilisk upon the heads of their gods. As may be observed in the Bembine Table, and other Ægyptian Monuments.

CHAPTER VIII

Of the Wolf.

SUCH a Story as the Basilisk is that of the Wolf concerning priority of vision, that a man becomes hoarse or dumb, if a Wolf have the advantage first to eye him. And this is a plain language affirmed by Plynv: *In Italia ut creditur, Luporum visus est noxius, vocemque homini, quem prius contemplatur adimere;* so is it made out what is delivered by Theocritus, and after him by Virgil:

—Vox quoque Mærim
Jam fugit ipse, Lupi Mærim videre priores.

Thus is the Proverb to be understood, when during the discourse, if the party or subject interveneth, and there ensueth a sudden silence, it is usually said, *Lupus est in fabula.* Which conceit being already convicted, not only by Scaliger, Riolanus, and others; but daily confutable almost every where out of England, we shall not further refute.

The ground or occasional original hereof, was probably the amazement and sudden silence the unexpected appearance of Wolves do often put upon Travellers;
not by a supposed vapour, or venomous emanation, but a vehement fear which naturally produceth obmutescence; and sometimes irrecoverable silence. Thus Birds are silent in presence of an Hawk, and Pliny saith that Dogs are mute in the shadow of an Hæna. But thus could not the mouths of worthy Martyrs be silenced, who being exposed not only unto the eyes, but the merciless teeth of Wolves, gave loud expressions of their faith, and their holy clamours were heard as high as Heaven.

That which much promoted it beside the common Proverb, was an expression in Theocritus, a very ancient Poet, οὗ πθέγξη λύκων εἶδες Εδέρε non poteris vocem, Lycus est tibi visus; which Lycus was Rival unto another, and suddenly appearing stopped the mouth of his Corrival: now Lycus signifying also a Wolf, occasioned this apprehension; men taking that appellatively, which was to be understood properly, and translating the genuine acceptation. Which is a fallacy of Æquivo
cation, and in some opinions begat the like conceit concerning Romulus and Remus, that they were fostered by a Wolf, the name of the Nurse being Lupa; and founded the fable of Europa, and her carriage over Sea by a Bull, because the Ship or Pilots name was Taurus. And thus have some been startled at the Proverb, Bos in lingua, confusedly apprehending how a man should be said to have an Oxe in his tongue, that would not speak his mind; which was no more then that a piece of money had silenced him: for by the Oxe was onely implied a piece of coin stamped with that figure, first currant with the Athenians, and after among the Romans.
The common Opinion concerning the long life of Animals, is very ancient, especially of Crows, Choughs and Deer; in moderate accounts exceeding the age of man, in some the days of Nestor, and in others surmounting the years of Artyphius or Methuselah. From whence Antiquity hath raised proverbial expressions, and the real conception of their duration, hath been the Hyperbolical expression of many others. From all the rest we shall single out the Deer, upon concession a long-lived Animal, and in longevity by many conceived to attain unto hundreds; wherein permitting every man his own belief, we shall our selves crave liberty to doubt, and our reasons are these ensuing.

The first is that of Aristotle, drawn from the increment and gestation of this Animal, that is, its sudden arrivance unto growth and maturity, and the small time of its remainder in the Womb. His words in the translation of Scaliger are these, De ejus vitae longitutudine fabulantur; neque enim aut gestatio aut incrementum hinnulorum ejusmodi sunt ut praestent argumentum longævi animalis; that is, Fables are raised concerning the vivacity of Deer; for neither are their gestation or increment, such as may afford an argument of long life. And these, saith Scaliger, are good Mediums conjunctively taken, that is, not one without the other. For of Animals viviparous such as live long, go long with young, and attain but slowly to their maturity and stature. So the Horse that liveth above thirty, arriveth unto his stature about six years, and remaineth
above ten moneths in the womb: so the Camel that liveth unto fifty, goeth with young no less then ten moneths, and ceaseth not to grow before seven; and so the Elephant that liveth an hundred, beareth its young above a year, and arriveth unto perfection at twenty. On the contrary, the Sheep and Goat, which live but eight or ten years, go but five moneths, and attain to their perfection at two years; and the like proportion is observable in Cats, Hares, and Conies. And so the Deer that endureth the womb but eight moneths, and is compleat at six years, from the course of Nature, we cannot expect to live an hundred; nor in any proportional allowance much more then thirty. As having already passed two general motions observable in all animations, that is, its beginning and encresse; and having but two more to run thorow, that is, its state and declination; which are proportionally set out by Nature in every kind: and naturally proceeding admit of inference from each other.

The other ground that brings its long life into question, is the immoderate salacity, and almost unparallel'd excess of venery, which every September may be observed in this Animal: and is supposed to shorten the lives of Cocks, Partridges, and Sparrows. Certainly a confessed and undeniable enemy unto longævity, and that not only as a sign in the complexional desire and impetuosity, but also as a cause in the frequent act, or iterated performance thereof. For though we consent not with that Philosopher, who thinks a spermatical emission unto the weight of one drachm, is æquivalent unto the effusion of sixty ounces of bloud; yet considering the exolution and languor ensuing that act in some, the extenuation and marcour in others, and the visible acceleration it maketh of age in most: we cannot
but think it much abridgeth our days. Although we also concede that this exclusion is natural, that Nature it self will find a way hereto without either act or object: And although it be placed among the six Non-naturals, that is, such as neither naturally constitutive, nor meerly destructive, do preserve or destroy according unto circumstance: yet do we sensibly observe an impotency or total privation thereof, prolongeth life: and they live longest in every kind that exercise it not at all. And this is true not only in Eunuchs by Nature, but Spadoes by Art: for castrated Animals in every species are longer lived then they which retain their virilities. For the generation of bodies is not meerly effected as some conceive, of souls, that is, by Irradiation, or answerably unto the propagation of light, without its proper diminution: but therein a transmission is made materially from some parts, with the Idea of every one: and the propagation of one, is in a strict acception, some minoration of another. And therefore also that axiom in Philosophy, that the generation of one thing, is the corruption of another: although it be substantially true concerning the form and matter, is also dispositively verified in the efficient or producer.

As for more sensible arguments, and such as relate unto experiment: from these we have also reason to doubt its age, and presumed vivacity: for where long life is natural, the marks of age are late: and when they appear, the journey unto death cannot be long. Now the age of Deer (as Aristotle not long ago observed) is best conjectured, by view of the horns and teeth. From the horns there is a particular and annual account unto six years: they arising first plain, and so successively branching: after which the judg-
ment of their years by particular marks becomes uncertain. But when they grow old, they grow less branched, and first do lose their ἄμυντῆρες, or propugnacula; that is, their brow-antlers, or lowest furcations next the head, which Aristotle saith the young ones use in fight: and the old as needless, have them not at all. The same may be also collected from the loss of their Teeth, whereof in old age they have few or none before in either jaw. Now these are infallible marks of age, and when they appear, we must confess a declination: which notwithstanding (as men inform us in England, where observations may well be made), will happen between twenty and thirty. As for the bone, or rather induration of the Roots of the arterial vein and great artery, which is thought to be found only in the heart of an old Deer, and therefore becomes more precious in its Rarity; it is often found in Deer much under thirty, and we have known some affirm they have found it in one of half that age. And therefore in that account of Pliny, of a Deer with a Collar about his neck, put on by Alexander the Great, and taken alive an hundred years after, with other relations of this nature, we much suspect imposture or mistake. And if we grant their verity, they are but single relations, and very rare contingencies in individuals, not affording a regular deduction upon the species. For though Ulysses his Dog lived unto twenty, and the Athenian Mule unto fourscore, yet do we not measure their days by those years, or usually say, they live thus long. Nor can the three hundred years of John of times, or Nestor, overthrow the assertion of Moses, or afford a reasonable encouragement beyond his septuagenary determination.

The ground and authority of this conceit was first
Hieroglyphical, the *Egyptians* expressing longevity by this Animal; but upon what uncertainties, and also convincible falsities they often erected such Emblems, we have elsewhere delivered. And if that were true which *Aristotle* delivers of his time, and *Pliny* was not afraid to take up long after, the *Egyptians* could make but weak observations herein; for though it be said that *Æneas* feasted his followers with Venison, yet *Aristotle* affirms that neither Deer nor Boar were to be found in *Africa*. And how far they miscounted the lives and duration of Animals, is evident from their conceit of the Crow, which they presume to live five hundred years; and from the lives of Hawks, which (as *Ælian* delivereth) the *Egyptians* do reckon no less then at seven hundred.

The second which led the conceit unto the *Grecians*, and probably descended from the Egyptians was Poetical; and that was a passage of *Hesiod*, thus rendered by *Ausonius*.

*Ter binos deciesque novem super exit in annos,*
*Justa senescentum quos implet vita virorum.*
*Hos novies superat vivendo gorrula cornix,*
*Et quater egreditur cornicis sæcula cervus,*
*Alipidem cervum ter vincit corvus.* —

To ninety six the life of man ascendeth,
Nine times as long that of the Chough extendeth,
Four times beyond the life of Deer doth go,
And thrice is that surpassed by the Crow.

So that according to this account, allowing ninety six for the age of Man, the life of a Deer amounts unto three thousand four hundred fifty six. A conceit so hard to be made out, that many have deserted the common and literal construction. So *Theon* in *Aratus* would have the number of nine not taken strictly, but
for many years. In other opinions the compute so far exceedeth the truth, that they have thought it more probable to take the word Genea, that is, a generation consisting of many years, but for one year, or a single revolution of the Sun; which is the remarkable measure of time, and within the compass whereof we receive our perfection in the womb. So that by this construction, the years of a Deer should be but thirty six, as is discoursed at large in that Tract of Plutarch, concerning the cessation of Oracles; and whereto in his discourse of the Crow, Aldrovandus also inclineth. Others not able to make it out, have rejected the whole account, as may be observed from the words of Pliny, Hesiodus qui primus aliquid de longaevitate vitae prodidit, fabulose (reor) multa de hominum ævo referens, cornici novem nostras attribuit ætates, quadruplum ejus cervis, id triplicatum corvis, et reliqua fabulosius de Phœnice et nymphis. And this how slender soever, was probably the strongest ground Antiquity had for this longevity of Animals; that made Theophrastus expos-tulate with Nature concerning the long life of Crows; that begat that Epithete of Deer in Oppianus, and that expression of Juvenal,

—Longa et cervina senectus.

The third ground was Philosophical, and founded upon a probable Reason in Nature, that is, the defect of a Gall, which part (in the opinion of Aristotle and Pliny) this Animal wanted, and was conceived a cause and reason of their long life: according (say they) as it happeneth unto some few men, who have not this part at all. But this assertion is first defective in the verity concerning the Animal alleged: for though it be true, a Deer hath no Gall in the Liver like many
other Animals, yet hath it that part in the Guts, as is discoverable by taste and colour: and therefore Pliny doth well correct himself, when having affirmed before it had no Gall, he after saith, some hold it to be in the guts; and that for their bitterness, dogs will refuse to eat them. The assertion is also deficient in the verity of the Induction or connumeration of other Animals conjoined herewith, as having also no Gall; that is, as Pliny accounteth, Equi, Muli, etc. Horses, Mules, Asses, Deer, Goats, Boars, Camels, Dolphins, have no Gall. In Dolphins and Porpoces I confess I could find no Gall. But concerning Horses, what truth there is herein we have declared before; as for Goats we find not them without it; what Gall the Camel hath, Aristotle declareth: that Hogs also have it, we can affirm; and that not in any obscure place, but in the Liver, even as it is seated in man.

That therefore the Deer is no short-lived Animal, we will acknowledge: that comparatively, and in some sense long-lived we will concede; and thus much we shall grant if we commonly account its days by thirty six or forty: for thereby it will exceed all other cornigerous Animals. But that it attaineth unto hundreds, or the years delivered by Authors, since we have no authentick experience for it, since we have reason and common experience against it, since the grounds are false and fabulous which do establish it: we know no ground to assent.

Concerning Deer there also passeth another opinion, that the Males thereof do yearly lose their pizzel. For men observing the decidence of their horns, do fall upon the like conceit of this part, that it annually rotteth away, and successively reneweth again. Now the ground hereof was surely the observation of this
part in Deer after immoderate venery, and about the end of their Rut, which sometimes becomes so relaxed and pendulous, it cannot be quite retracted: and being often beset with flies, it is conceived to rot, and at last to fall from the body. But herein experience will contradict us: for Deer which either die or are killed at that time, or any other, are always found to have that part entire. And reason will also correct us: for seminal parts, or such as are framed from the seminal principles of parents, although homogeneous or similary, will not admit a Regeneration, much less will they receive an integral restauration, which being organical and instrumental members, consist of many of those. Now this part, or Animal of Plato, containeth not only sanguineous and reparable particles: but is made up of veins, nerves, arteries, and in some Animals, of bones: whose reparation is beyond its own fertility, and a fruit not to be expected from the fructifying part itself. Which faculty were it communicated unto Animals, whose originals are double, as well as unto Plants, whose seed is within themselves: we might abate the Art of Taliacotius, and the new in-arching of Noses. And therefore the fancies of Poets have been so modest, as not to set down such renovations, even from the powers of their deities: for the mutilated shoulder of Pelops was pieced out with Ivory, and that the limbs of Hippolitus were set together, not regenerated by Æsculapius, is the utmost assertion of Poetry.
CHAPTER X

Of the King-fisher.

THAT a King-fisher hanged by the bill, sheweth in what quarter the wind is by an occult and secret propriety, converting the breast to that point of the Horizon from whence the wind doth blow, is a received opinion, and very strange; introducing natural Weather-cocks, and extending Magnetic positions as far as Animal Natures. A conceit supported chiefly by present practice, yet not made out by Reason or Experience.

Unto Reason it seemeth very repugnant, that a carcass or body disanimated, should be so affected with every wind, as to carry a conformable respect and constant habitude thereto. For although in sundry Animals we deny not a kind of natural Meteorology or innate presention both of wind and weather, yet that proceeding from sense receiving impressions from the first mutation of the air, they cannot in reason retain that apprehension after death, as being affections which depend on life, and depart upon disanimation. And therefore with more favourable Reason may we draw the same effect or sympathie upon the Hedg-hog, whose presention of winds is so exact, that it stoppeth the North or Southern hole of its nest, according to the prenotion of these winds ensuing; which some men observing, have been able to make predictions which way the wind would turn, and been esteemed hereby wise men in point of weather. Now this proceeding from sense in the creature alive, it were not reasonable to hang up an Hedg-hogs head, and to

Whence it is, that some creatures presage the weather.
expect a conformable motion unto its living conversion. And though in sundry Plants their vertues do live after death, and we know that Scammony, Rhubarb and Senna will purge without any vital assistance; yet in Animals and sensible creatures, many actions are mixt, and depend upon their living form, as well as that of motion; and though they wholly seem to retain unto the body, depart upon disunion. Thus Glow-worms alive, project a lustre in the dark, which fulgour notwithstanding ceaseth after death; and thus the Torpedo which being alive stupifies at a distance, applied after death, produceth no such effect; which had they retained in places where they abound, they might have supplied Opium, and served as frontals in Phrensies.

As for experiment, we cannot make it out by any we have attempted; for if a single King-fisher be hanged up with untwisted silk in an open room, and where the air is free, it observes not a constant respect unto the mouth of the wind, but variously converting, doth seldom breast it right. If two be suspended in the same room, they will not regularly conform their breasts, but oft-times respect the opposite points of Heaven. And if we conceive that for exact exploration, they should be suspended where the air is quiet and unmoved, that clear of impediments, they may more freely convert upon their natural verticity; we have also made this way of inquisition, suspending them in large and capacious glasses closely stopped; wherein nevertheless we observed a casual station, and that they rested irregularly upon conversion. Wheresoever they rested, remaining inconverted, and possessing one point of the Compass, whilst the wind perhaps had passed the two and thirty.
The ground of this popular practice might be the common opinion concerning the vertue prognostick of these Birds; as also the natural regard they have unto the winds, and they unto them again; more especially remarkable in the time of their nidulation, and bringing forth their young. For at that time, which happeneth about the brumal Solstice, it hath been observed even unto a proverb, that the Sea is calm, and the winds do cease, till the young ones are excluded; and forsake their nest which floateth upon the Sea, and by the roughness of winds might otherwise be overwhelmed. But how far hereby to magnifie their prediction we have no certain rule; for whether out of any particular prenotion they chuse to sit at this time, or whether it be thus contrived by concurrence of causes and providence of Nature, securing every species in their production, is not yet determined. Surely many things fall out by the design of the general motor, and undreamt of contrivance of Nature, which are not imputable unto the intention or knowledge of the particular Actor. So though the seminality of Ivy be almost in every earth, yet that it ariseth and growth not, but where it may be supported; we cannot ascribe the same unto the distinction of the seed, or conceive any science therein which suspends and conditionates its eruption. So if, as Pliny and Plutarch report, the Crocodiles of Egypt so aptly lay their Eggs, that the Natives thereby are able to know how high the floud will attain; it will be hard to make out, how they should divine the extent of the inundation depending on causes so many miles remote; that is, the measure of showers in Ethiopia; and whereof, as Athanasius in the life of Anthony delivers, the Devil himself upon demand could make no clear prediction.
So are there likewise many things in Nature, which are the fore runners or signs of future effects, whereto they neither concur in causality or prenotion, but are secretly ordered by the providence of causes, and concurrence of actions collateral to their signations.

It was also a custome of old to keep these Birds in chests, upon opinion that they prevented Moths; whether it were not first hanged up in Rooms to such effects, is not beyond all doubt. Or whether we mistake not the posture of suspension, hanging it by the bill, whereas we should do it by the back; that by the bill it might point out the quarters of the wind; for so hath Kircherus described the Orbis and the Sea Swallow. But the eldest custome of hanging up these birds was founded upon a tradition that they would renew their feathers every year as though they were alive: In expectation whereof four hundred years ago Albertus Magnus was deceived.
BROWNE, SIR THOMAS.

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