MERCVRY

OR THE
SECRET and SVVIFT

Messenger:

Shewing,

How a Man may with Privacy and Speed communicate his Thoughts to a Friend at any distance.

LONDON,

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1641.



2745:11



To the Righthonorable

GEORGE

Lord Berkley, Baron of Berkley, Mowbray, Segrave, and Bruce, and Knight of the Noble Order of the BATH.

My Lord:

Doe here once more present your Lordship, with the fruit of my leasure studies, as a testimony of my readinesse to serve you, in those sacred matters, to which I devote my more serious houres. I should not have presumed to this Dedication, had

The Epistle, &c.

had I not beene encouraged by that ge= nerousnesse and sweetnesse of disposi= tion, which does so eminently adorne your Lordships place and abilities.

If your Lordship please to excuse this boldnesse, and to vouch safe this Pamphlet a shelter under your favourable patronage, you shall thereby incourage me in those higher studies, which may be more agreeable to that relation, wherein I stand, as being

Your Lordships servant and Chaplaine,

I. W.

To the Reader.

this Discourse, was the reading of a little Pamphlet, styled Nuntius inanimatus,

commonly ascribed to a late Reverend Bishop: wherein hee affirms that there are certain ways to discourse with a friend, though he were in a close Dungeon, in a besieged City, or a hundred miles of.

Which promises, at the first perusal, did rather raise my wonder then beliefe, having before that time observed nothing, that might give any satisfaction in these particulars. And I should have esteemed them alltogether fabulous had it not beene for the credit of their reputed author.

After this, I did collect all such notes to this purpose, as I met with in the

course of my other studies.

From whence when I had received ful satisfaction, I did for mine own further ther delight compose them into this method.

This I have now published; not for the publique good, (which I doe not think my poore abilities can promote) but to gratifie my brother the Stationer.

The benefits of that trade do chiefly confift in the printing of coppies; and the vanity of this age is more taken with matters of curiofity, then those of solid benefit. Such a pamphlet as this, may be salable, when a more substantiall and usefull discourse is neglected.

I have already attained mine owne ends, both in the delight of composing this, and the occasion of publishing it. And therefore neede not either feare the censure of others, or beg their favour. I could never yet discerne that any Reader hath shewed the more charity, for the Authors bespeaking it. Farewell.

I. W.

\$

To Mercury the elder,

On the most learned Mercury the yonger.

Est Maja's sonne, sometimes Interpreter Of Gods, and to sus men their Me Senger, Take not such pains as then hast done of old. To teach men Hieroglyphicks, and to unfold Egyptian bidden Characters, and how Men writ in darke obseurity; for now Trithemius and Selenus both are grown Such Cryptographers, as they scarce will own Thee for their Master, and Decipherers know Such secret ways to write thou nere didst show. These are but Artists, which thou didst inspire; But now thou of a Mercury art Sire Of thine own name, a Post with whom the winde, Should it contend, would be left farre behind. Whose message as thy metall strikes the gold, Quite through a wedge of silver uncontrold, And in a moments space doth passe as far As from the Artike to th' Antartike flar.

So proving what is said of influence, May now be said of his intelligence, They neither of them having such a quality As a relation to locality: No places distance hindring their Commerce Who freely traffick through the Vniverse, And in a minute can a Voyage make, Over the Oceans univer fall Lake. This sonne of thine, could any words or praise His learning, worth, or reputation raise, We should be Susters to him to bestow Encomiums on himselfe, which we do one Vnto bis worth, and use that Eloquence, Which as his own, must claime preheminence: For thee, 'tis glory enough thou hast a sonne Of Art, that bath thy selfe in Art out-done.

Sir Francis Kinaston Knight.



To the unknown Author.

Or mind, or means, for it were Deifyde:
But chiefly fuch, who new Inventions found;
Bacchus for Wine, Ceres that tild the ground.
I know no reason time should breed such ods,
(W'have warrant for't) men now may be styl'd
By hiding who thou art, seek not to miss, (Gods.
The glory due to such a Work as this;
But set thy name, that thou mayst have the
Lest to the unknown God we Altars raise. (praise,

Anthony Aucher, Esquire.

To my friend the Author.

Thy Readers indoment, and to iniure fate;
Insustice to thy selfe, for reals worth
Needs not Arts flattery to set it forth.
Some choose selected with to write, as friends,
Whose Verses, when the work fails, make amends.
So as the buyer has his penny-worth,
Though what the Author write prove spumy froth.
Thou, of a humour crosse to that, hast chose
A friend or two, whose Verse hops like rough prose,
From whose inexpert vain thou canst not look
For limes that may enhaunce the price o'th' book.
Let it commend it self, all wee intend
Is but to shew the World, thou are our friend.

Richard Hatton Esquire.



To the Reader.

Found out another world to this below.
Though that alone might merit great renowne,
Yet in this book he goes beyond the Moone.
Beyond the Moone indeed, for here you fee
That he from thece hath fetcht down Mercury.
One that doth tell us things both frange and

And yet believ't thei'r not more strange then true.

I'me loth to tell thee what rare things they bee,

Read thou the booke and then thou'lt tell them mee.

Tob. Worlrich. I. C. Doct.



To his honour'd Friend I. W. on his learned Tract,

The Secret and Swift Messenger.

Nimitable Sir, wee here discerne Maximes the Stagirite himselfe might learn. Were Plato now alive hee'd yield to You, Confessing something might be Knowne anew. Fresh Heresies (New nothings) still appeare As Almanacks, the Births of every Yeare. This Dutchman Writes a Comment, that Translates, A Third Transcribes; Your Pen alone Creates New necessary Sciences; This Art Lay undiscover'd as the Worlds fift part. But Secrecie's now Publish'd; You reveal By Demonstration how wee may Conceal. Our Legates are but Men, and often may

Great State-affaires unwillingly betray: Caught by some sifting Spies, or tell-tale Wine, Which dig up Secrets in the deepest Mine. Sometimes, like Fire pent in, they outward break, And 'cause they should be silent, therefore speak. Nor are Kings Writings safe; To guard their Fame, ike Scavold, they wish their Hand ith' Flame.

Inke

Inke turns to bloud; they oft participate By wax and Quill fad Icarus his fate. Hence Noblemens bad writing proves a plot; Their Letters are but Lines, their Names a Knot. But now they shall no more Seale their own Fall; No Letters prove Killing, or Capitall. Things passe unknown, and each Ambassadour's Strict as the Brest of facred Confessours: Such as the Inquisition cannot see; Such as are forc'd neither by Rack, nor Fee. Swift Secrecie delcends to Humane Powers; That which was Plutoes Helmet, now is Ours. We shall not henceforth be in pay for ayre, Transported Words being deare as precious Ware; Our Thoughts will now arrive before they're stale; They shall no more wait on the Carriers Ale, And Hostesse, two Land Remoraes, which bind All to a Tortoife pace, though Words be Wind. This Books a better Arke; we brook no stay, Maugre the deepelt Flood, or foulest Way. Commerce of Goods and Souls we owe to Two, (Whose Fames shall now be Twins) Noah and You. Each Bird is turn'd a Parrot, and we see Æsops Beasts made more eloquent by thee. Woers againe may wing their fetterd Love, By Noahs trufty Messenger the Dove. Torches which us'd only to help our fight, (Like heavenly fires) do give our Reason Light. Deaths Harbingers, Arrows, and Bullets prove Like Cupids darts, Ambassadours of Love.

Then

Then your diviner Hieroglyphicks tell How we may Landskips read, and Pistures spell. You teach hovy Clouds inform, hovy smooks advise, Thus Saints with Incense talke to Deities. Thus by dumbe Creatures we inflructed are, As the Wife Men were Tutor'd by a Star. Since we true Serpents like doe little wrong With any other Member but the Tongues You tell us how we may by Gestures talker How Feet are made to speak, as well as walke : How Eyes discourse, how mystique Nods contrive; Making our Knowledge roo, Intuitive, A Bell no noise but Rheroricke affords; Our Musique Notes are Speeches, sounds are Words. Without a Trope there's Language in a Floure, Conceits are Smelt without a Metapher. Dark subtleties we now shall soon define, Each Organs rum'd the sense of Discipline. Tis to your Care we owe that we may fend, Businesse unknown to any but our Friend. That which is English Friendship to my Brother, May be though't Greek or Non-Tence to another. We novy may Homers Iliads confine Not in a Nutshell, but a Point, or Line. Which Art though 't seeme to exceed, Faith, yet who Tryes it, will find both Truth and Reason too. 'Tis not like Juglers tricks, ablurd, when shown; But more and more admir'd, the more 'tis knovvn. Writing's an Act of Emanation, And Thoughts speed quick and far as Day doth run. Richard West. C.C. Ox.

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MERCURY.

The fecret and swift Messenger.

CHAP. I.

The dependance of this knowledge in nature. The Authors that have treated of it. Its relation to the art of Grammar.



Very rationall creature, being of an imperfect, and dependant happinesse, is therefore naturally endowed with

an ability to communicate its owne thoughts and intentions; That fo by mutuall fervices, it might the better promote it felfe, in the profecution of its owne wel-being.

And because there is so vast a difference betwixt a spirit and a body, B therefore therefore hath the wisedome of providence contrived a distinct way and meanes, whereby they are each of them inabled to discourse, according to the variety of their several natures.

Aquinas part. Quest. 107. Zanch. de Operibus Dei. Part. I. lib. 3 6. 19.

natures.

The Angels or Spirituall fubstances, Per infinacionem specierum, (as the Schoolemen speake) By infinuating of the species, or an unveiling of their owne natures in the knowledge of such particulars, as they would discover to another. And since they are of a Homogeneous and immaterial essence, therefore do they heare, and know, and speake, not with severall parts, but with their whole substance. And though the Apostle mentions the tongue of Angels, yet that is onely per concessionem, of ex hyposhes.

Cor. 13.

But now, men, that have Organicall bodyes, cannot communicate their thoughts, so easie and immediate a way. And therefore have need of some corporeall instruments, both

for

MESSENGER.

for the receiving and conveying of knowledge. Unto both which functions, nature hath designed severall parts. Amongst the rest, the eare is chiefely the sense of discipline or learning, and the tongue the instrument of teaching. The communion betwixt both these is by speech or language. Which was but one at first, but hath since beene confounded into feverall kinds. And experience now shews, that a man is equally disposed, for the learning of all, according as education shall direct him. Which would not be, if (as

fome fondly conceive) any one of them were naturall unto us. For intus existens prohibet alienum.

Or suppose that a man could be brought up to the speaking of another tongue; yet this would not hinder, but that he should still retaine his knowledge, of that which was

naturall. For if those which are gotten by art, doe not hinder one another, much leffe would they be any B 2 impe

impediment, to that which is from nature. And according to this it will follow, that most men should be of a double language; which is evidently false. Whence likewise you may guesse, at the absurdity of their enquiries, who have sought to sind out the primitive tongue, by bringing up insants in such silent, solitary places, where they might not heare the speech of others.

Languages are so farre naturall unto us, as other arts and sciences. A man is borne without any of

them, but yet capable of all.

Now, because Words are onely for those that are present both in time & place; therefore to these, there hath beene added, the invention of letters and writing; which are such a representation of our words (though more permanent,) as our words are of our thoughts. By these we may discourse with them, that are remote from us, not onely by the distance of many miles, but also of

many

marry ages, Hujus usu scimus maxime constare humanitatem vita, memoriam ec hominum immortalitatem, faith Pli-Quid hoc magnificentius ? quid

Nat biff. ltb. 14.6.11

aque mirandum ? in quod ne mortis quidem avida rapacitas jus ullum habeat

Antiq. lett. lib 4.cap.3.

faith Rhodiginus, This being the chiefest meanes, both for the promoting of humane fociety, and the perpetuating our names unto following times.

How strange a thing this Art of writing did seeme at its first invention, we may guesse by the late discovered Americans, who were amazed to see men converse with books, and could scarce make themselves beleeve that a paper should speake: especially, when after all their attention and liftning to any writing (as their custome was) they could never perceive any words or found to proceed from it.

There is a pretty relation to this purpose concerning an Indian slave, who being sent by his Master, with a basket Hugo de

orig. Scribendi. Praf.

a basket of figs and a letter, did by the way eate up a great part of his carry-age, conveying the remainder unto the person, to whom he was directed, who when he had read the letter, and not finding the quantity of figges answerable to what was there spoken of: he accuses the slave of eating them telling him what the letter faid against him. But the Indian , (notwithstanding this proofe) did confidently abjure the fact, cursing the paper, as being a false and lying wit-nesse. After this, being sent agains with the like carriage, and a letter expressing the just number of figges, that were to be delivered, heedid againe according to his former pra-ctice, devoure a great part of them by the way; but before hee medled with any, (to prevent all following accusations;) he first tooke the letter, and hid that under a great stone, affuring himselfe, that if it did not fee him eate the figges, it could never tell of him; but being now more **Atrongly**

MESSENGER.

strongly accused then before, hee confesses the fault, admiring the divinitie of the paper, and for the futuredoe's promise his best fidelity in

every imployment.

Such strange conceits, did those wilder nations entertaine, concerning this excellent invention. And doubtlesse it must needs argue a vast ability both of wit and memory, in that man, who did first confine all those different founds of voyce, (which feeme to be almost of infinite variety) within the bounds of those few letters in the Alphabet. The first inventor of this, was

thought to be the Egyptian Mercury, who is therefore stiled the Messenger of the Gods. To which purpose the Poets have furnished him with wings for swiftnesse and dispatch in his errands. And because the Planet of

that name, was thought to observe a morevarious & obscure revolution then any of the rest, therfore likewise did they attribute unto him, fuch

Cice lib. 3. de Na. Dear. Poled Vire. de Inventor. lib. 1 - cap 6. Vollius de Grammatica li-1-c. 9.

Natal Co.

mes Mythal.

lib. 5 . cap. 5.

The fecret and swift

ecres and fubtle motions, as might make him a trufty and private meffenger, and fo the fitter for that preferment, to which for this invention they had advanced him.

There is yet another way of discoursing, by signes and gestures. And though it be not so common in prassise, as either of the other; yet in nature, perhaps it is before them both since infants are able this way to expressive manual entry to expressive themselves, before they have the benefit of speech.

But now, because none of these wayes in ordinary use, are either so Secret or Smift, as some exigences would require; Therefore many of the Antients have bussed themselves in a further inquiry how both these descretes may be remedied: as conceiving that such a discovery would be of excellent use, especially for some occasions that are incident to Statesmen and Souldiers.

That the ignorance of Secret and Sinfe conveyances, bath often pro-

ved farall, not onely to the ruine of particular persons, but also of whole Armies and Kingdomes; may eafily appeare to any one that is but little versed in story. And therefore the redreffing of these may bee a fubject worth our enquiry.

Amongst the Antients that have most laboured in these particulars, Aneas , Cleomenes, and Democritus, (as they are cited by * Polybius) were for their inventions of this kind, more remarkeably eminent.

And that * Author himself hath given us fuch an exact relation of the knowledge of antiquity in these things, that tis a wonder, thefe following ages should either take no more notice, or make no more use of it. Besides these, there is also Iulius Africanu, and Philo Mechanicus, two antient Grecians, who have likewise treated of

The Military fignifications in use

this fubject.

[Poliorce. tica. *Hisl.l. 10.

* Polibins Ibid. juxta finem

amongs

Deremili, lib.3. Cap. 5. De Strat. amongst the Romans, are handled by * Vegetim, and * Frontinm.

Their notes of Secrecy, and Abbreviation in writing, are largly fet downe by *Valerim Probm, and Pet. Disconus. There is likewife a volumne of these, set forth by Ianus Grueerus, which for their first invention are commonly ascribed unto

Thefather. Cicero and * Seneca.

In latter times, these particulars have beene more fully handled, by the Abbot * Tritemius. * Theodorus Bibliander, * Baptisa Porta. Cardan. Subtilit. lib. 17, de Var. C. 12. 6. 4 Isaac Casaubon. * Iohannes Walchius, * Guttavus Selemus, * Gerardus Vossus, † Hermannus, Hugo, and divers others, in particular languages.

Amongst the rest, our English Aristotle, the learned Verulam, in that worke truly stiled the Advancement of Learning, hath briefly contracted the whole substance of what may be said in this subject. Where he refers it to the art of Grammar, noting it as a

"Li-de notis untiquis.

Lib, de Poiseraph, item de Ste nograp, b traft, de

ratione
commun.
linguarumLib.de
Zyphris.
A Notis in
Amee Po-

hymeetica.

† Fab. 9.

† de Cryptog.

† de Gram.
Lib. 1 c. 40.

† Lib. de Or.

Scrib.

De dugm.

Scientiar.
Lib. 6 ca. 1.

deficient part. And in reference to this is it handled by most of those Authors, who have treated of it. That art, in its true latitude com-

prehending a treaty, concerning all the wayes of discourse, whether by speech, or by writing, or by gesture, together with the feverall circumstances, pertaining to them. And so this subject belongs to the Mint of 1814. knowledge; Expressions being currant for conceits, as money is for valuations.

Now as it will concerne a man that deales in traficke, to understand the severall kinds of money, and that it may be framed of other materialls, besides silver and gold: So likewise do's it behove them, who professe the knowledge of nature or reason, rightly to apprehend the feverall waies whereby they may be expressed.

So that besides the usefulnesse of this subject, for some speciall occafions, it doth also belong unto one of the liberall Arts.

From

From which considerations wee may infer, that these particulars are not fo triviall, as perhaps otherwaies they would feeme, and that, there is fufficient motive to excite any industrious spirit, unto a further search after them.

In this following discourse, I shall

enquire,

i Concerning the Secrety of meanes, whereby to communicate our thoughts.

2 Concerning their Swiftnesse, or quicke passing at any great distance.

3 How they may be both joyned

together in the conveiance of any Meffage.

In the profecution of which, I shall also mention (besides the true discoveries) most of those other wayes, whether Magicall, or Fabulous, that are received upon common tradirion.

CHAP.

CHAP. II.

The conditions requisite to Secrecy, Theuse of it in the Matter of speech, either

By Parables of the Heathen.

Parables of Scripture.

To the exactnesse of Secrecy in any way of discourse, there are these two qualifications requisite.

That it be difficult to bee unfolded, if it should bee doubted of, or examined.
 That it be (if possible) altogether devoid of suspicion; for so far

as it is liable to this, it may be faid to come short in the very Nature of Secrecy; since what is once suspected, is exposed to the danger of examination, & in a ready way to be discovered; but if not, yet a man is more likely to be disappointed in his

intentions,

intentions, when his proceedings are mistrusted.

Both these conditions together are to bee found but in few of the following instances; only they are here specified, to shew what a man should aime at, in the inventions of this nature.

The art of fecret information in the generall, as it includes all fignificatory fignes, may be stilled Cryptome-

The particular wayes of discourfing, were before intimated to bee

threefold

By Speaking.
 By Writing.
 By fignes or gestures.

According to which variety, there are also different wayes of Secrecy.

I. Cryptologia.

2. Cryptographia. 3. Sem cologia.

Cryptologia, or the Secrecy of speaking, may confift either,

Ι'n

I. In the matter.

2. In the words.

vewould utter is so concealed under the expression of some other matter, that it is not of obvious conceit. To which purpose are the Metaphors,

Allegories, and divers other Tropes of Oratory: which, so farre as they concerne the ornament of speech, deproperly belong to Rhesorick, but as they may be applied for the secrecy of speech, so are they reducible unto

this part of Grammar.

To this likewise appertaines all

that anigmatical learning, unto which not onely the learned heathen, but their Gods also were so much devoted, as appeares by the strange and frequent ambiguities of the Oracles, and Sybils. And those were counted the most profound Philosophers amongs them, who were best able for the invention of such affected obfcurities.

Of this kind also were all those myste-

The secret and swift

ables.

mysterious Fables, under which, the ancients did veile the secrets of their Religion and Philosophy; counting it a prophase thing to profittite the hidden matters of either, unto vulgar apprehension. Quia sciunt inimicam effe natura, apertam nudamque expositionem sui; qua, sicut vulgaribus hominum sen. fibus, insellectum sui, vario rerum teg-Mine operimentoque subtraxit, ita a prudentibus arcana sua voluit per fabulosa trastari, faith Macrobius. The Gods and nature wold not themselves have hidden so many things from us, if they had intended them for common understandings, or that others should treat of them, after an easie & perspicuous way: Hence was it that the learned men of former times were so generally inclined, to involve all their learning, in obscure & mysteri-Ous expressions. Thus did the Egyptian Priests, the Pythagoreans, Platonicks, & almost all other sects and professions.

Scip, Lib. 1. Cap. 2.

L'avables.

And to this generall custome of those ages (we may guesse) the holy-

Ghoft

MESSENGER.

Ghost do's allude, in the frequent Parables, both of the old and new Testament. Parabola est sermo similieudinarius, qui aliud dicit, aliud fignificat, faith Aquinas. It is such a speech of similitude, as fayes one thing, and

Cammen i Ifai. 14.

meanes another. The Disciples doe directly oppose it to plaine speaking. Behold now speakest thou plainly, and no Parables. And elsewhere tis intimated, that

loh.i6.29.

our Saviour did use that manner of teaching for the Secrety of it: That those proud and perverseauditors, who would not applie themselves to the obedience of his doct rine, might not fo much as underst and it. whom it is not given to know the myfte. ries of the Kingdome of God, to them all Maring. things are done in Parables; that feeing they may fee and not perceive, and hea-

Mar.4. Bi.

ring they may heare and not under stand. The art of these was so to implie a fecret argument, that the adversary might unawares be brought over , to an acknowledgement, and confession

Glaf. Phile. Lib.z.pat. I. MAEL 1. Sell. 4.

Sam.12.

of the thing we would have. Thus did Nathan, unexpectedly diffcover to David, the cruelty and injustice of his proceedings in the case of Vriab. Thus did another Prophet, make A-bab, condemne himselfe, for suffering the King of Syria to escape. And by this meanes did our Saviour in the

20. 39. Mat.21.33.

r King.

the King of Syria to escape. And by this meanes did our Saviour in the Parable of the Vineyard, and the unjust husband-man, force the unbeleeving Jewes, to a secret acknowledgement, of those judgements, they had themselves deserved.

Of this nature was that argument

Of this nature was that argument of an antient Orator, who when the enemies had proposed peace, upon this condition, that the City thould banish their teachers and Philosophers; He steps up and tells the people at ale, of certaine warres betwixt the woolves and the sheepe, and that the woolves promised to make a league, if the sheep would put away their mast life Dogs. By this meanes better instructing them of the danger and madnesse there would be in

veel-

MESSENGER.

yeelding to fuch a condition. The Jewish Doctors doe generally in their Talmud, and all their others writings, accustome themfelves to a Parabolicall way of teaching: and 'tis observed that many of those horrid fables, that are fathered upon them, doe atise from a misapprehension of them in this particular. Whilst others interpret Examen

that according to the letter, which comm. Rabthey intended onely for the morall. bin-dif.7. As that which one Rabby relates concerning a Lion in the forrest of Elay, that at the distance of foure hundred leagues, did with his roaring, shake downe the walls of Rome, and make the women abortive. Wherein he did not affirme the existence of any such monster, but only intimate the terriblenesse and power of the divine Majestie. But this by the way.

By this Art, many men are able in their ordinary discourses, so secretly to convey their counsels, or

reproofes, that none shall understand them, but those whom they concerne. And this way of teaching hath a great advantage above any other, by reason it hath much more power in exciting the fancy and afsections. Plaine arguments, and morall precepts barely proposed, are more flat in their operation, not so lively and perswasses, as when they seale into a mans assent, under the overt of a parable.

To be expert in this particular is not in every mans power; like Poetrie, it requires such a naturall facultie as cannot be taught. But so farre as it falls under the rules and directions of Art, it belongs to the

precepts of Oratory.

In the generall 'tis to be observed, that in these cases a man must be very carefull to make choyse of such a subject, as may beare in it, some proper analogic and resemblance to the chiefe businesse. And he must beforehand in his thoughts, so aptly con-

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MESSENGER.

trive the feverall parts of the fimilitude, that they may fitly answere unto those particular passages, which are of greatest consequence.

CHAP. III.

Concerning that secrecie of speech which consists in the words, Either
By inventing new ones, 5 Canting, as in Conjuring.

Or by a changing Invertion.

of the knowne Diminutation.
languag, whither Augmentation.

The secret wayes of speaking, which consists in the matter of discourse have been already handled. Those that are in the words are

twofold. Either

1. By inventing new words of our owne, which shall signific upon compact.

2. Or by such an alteration of

C 3 any

any knowne language, that in pronuntiation it shall seeme as obscure, as if it were altogether barbarous.

To the first kind we may referre the Canting of beggars; who though they retaine the common particles, yet have imposed new names upon all such matters, as may happen to be of greatest consequence and secreex?

And of this nature the charms of Witches, and language of Magitians feeme to be. Though of these it may well be doubted, whether they have any signification at all; And if they have, whether any understand them but the Devill himselfe? Tis probable, he did invent such horrid and batharous sounds, that by them, he might more easily delude the weake imaginations of his credulous disciples, Martinus de Arles, an Arch-deacon in Navare, speaking of a conjuging booke, that was found in a Parish under his visitation, repeats

out of it thele formes of discourfing

Tra I. de Supersi tioni b u. with the Devill. Conjuro te per alim, per alion, per feboan, per adonay, per adelujah, per tanti, per archabulon, &c. And a little after, Situ alligati & confrictiper ista santanomina Dei, Hir, alli, habet, sat, mi, siliga, adrotiagund, tat, chamiteram, &c. And in another place, Coriscion, Matatron, Caladason, Ozcozo, Tosiel, &c.

In which formes, the common particles and words of usual sence, are plainely set downe in ordinary Latin; but many of the other, which seeme to have the greatest efficacy, are of such secret sence, as I thinke no linguist candiscover.

The inventions of this kind, doe not fall under any particular rule or maxime, but may be equally infinite to the variety of articulate founds.

The fecond way of fecrecy in fpeech, is by an alteration of any knowne language, which is farre more easie, and may prove of as much use for the privacy of it, as

Porta de furiolit live capo 5.
Selenus de Crippiographonito. 2.
cap. 1.

the

the other. This may be performed, foure wayes.

I. By inversion, when either the Letters or Syllables are spelled backwards.

Mitto tibi METVLAS car. cros imitare legendo, where the word SALVIEM is expressed by an inversion of the letters. Or as in this other example, Stifho effad, veca biti which by an invertion of the Syllables, is Hoftis adeft, cave tibi.

2. By Transmutation, ora mutuall changing of one letter for another in pronunciation, answerable to that forme of writing mentioned in the seventh Chapter. And though this may feeme of great difficulty, yet use and experience will make it

eafic

By contrasting some words, and leaving part of them out; pronouncine them after some such way as they were wont to be both written and printed in antient Copies. Thus aa Rands anima , Arl's for Arifloreles.

But this can be but of small use in the English tongue, because that does consist most of Monofillables.

4. By augmenting words with the addition of others letters. Of which kind, is that secret way of discourfing in ordinary use, by doubling the vowels that make the fyllables. and interpoling G. or any other confonant K. P. T. R. &c. or other fyllables, as Porta lib. 1. cap. 5. defurtiv. liter. notis. Thus, if I would fay, Our plot is discovered, it must be pronounced thus, Ougour plogot igu di gistogovegereged. Which doe's not feeme so obscure in writing, as it will in speech and pronuntiation. And it is so easie to be learnt, that I have knowne little children, almost as soone as they could speake, discourse to one another as fast this way, as they could in their plainest English.

But all these later kinds of secrecy in speech, have this grand inconvenience

The secret and fwift

Chap.17

venience in them, that they are not without suspition.

There are some other wayes of speaking by inarticulate sounds, which I shall mention afterwards.

CHAP. IV.

Concerning the secret conveyances of any written message in use amongst the Antients,

Either by Water.

The fecrecy of any written meflage may confift Conveyance. either in the Writing.

if In the Conveyance, when a letter is so closely concealed in the carryage of it, as to delude the search and suspition of the adversary. Of which kind, the antient Historians doe furnish us with divers relations, reducible in the generall unto these

three heads. Those that are 1. By Land.

2. By Water.

3. Through the open Ayre.

1. Thefecret conveyances by Land, 1. By Land

may be of numberlesse variety: but those antient inventions of this nature, which to my remembrance are most obvious and remarkeable, are

thefe. That of Harpagus the Mede (men-

tioned by Herodorus and Justin) who when he would exhort Cyrus to 2 conspiracy against the King his uncle, and not daring to commit any fuch message to the ordinary way of conveyance, especially since the Kings jealousie had stopped up all passages with spies and watchmen) he put his letters into the belly of a hare, which together with certaine hunters nets, hee delivered unto a

trusty servant, who under this disguise of a hunts-man, got an unsuspected passage to cyru. And Astyages himselfe was by this conspiracy bereaved

Hennd lb. I cap.123. luffine'th. I. bereavd of that Kingdom which was then the greatest Monarchie in the world.

Juffin lib.2. See one like related o. Ha. mikar. Ibid. hb.21,

To this purpose likewise is that of Demarasus, King of sparta, who-being banished from his own Country and received in the Persian Court. when he there understood of Xerxer his defigne and preparation for a warre with Greece, hee used these meanes for the discovery of it unto his countrey men. Having writ an Epiffle in a * Tablet of wood, he covered over the letters with waxe, and then committed it unto a trusty servant to be delivered unto the Magistrates of Lacedamon; Who when they had received it, were for a long time in a perplexed confultation, what it should meane, they did see nothing written, and yet could not conceive, but that it should import fome weighty fecret; till at length the Kings fifter did accidentally difcover the writing under the waxe, By which meanes the Grecians were

formerly theywere wont to write upon, whence the phrafe Rafa tabua, and litera a litera.

Such as

fo well provided, for the following warre, as to give a defeate to the greatest and most numerous Army that is mentioned in History.

The Fathers of the Counfell of Ephelius, when Neftorisus was condemned, being strictly debarred from all ordinary waves of conveyances, were faine to fend unto Confinninople, by one in the disguise of a beggar.

Some messengers have beene sent away in cossins as being dead. Some others in the disguise of brute creatures, as those whom losephus mentions in the siege of losapata, who crept out of the City by night like Dogs.

their imprisoned friends, by putting them into the food they were to receive, which is related of *Polycrita*. Lawrenzia Medices involving his Epifles in a piece of bread, did fend them by a certaine Nobleman in the forme of a begger. There is another relation of one, who rolled up his letters in a waxe candle, bidding the

Others have conveyed letters to

Isaac Cusa. Notis in Anee I olior,c.31.

De BelloItidais.l.3.c.8

Herman. Hugode orig Scrib. 6-15.

Selenm de Criptographia lib.%, cap.7.

meffen-

Poliorcet.

melfenger tell the party that was to receive it, that the candle would give him light for his businesse. There is yet a stranger conveyance spoken of in Even, by writing on leaves, and afterwards with these leaves, covering over some sore or putrid ulcer, where the enemy would never suspect any secret message.

Others have carried Epiftles infcribed upon their owne fleth, which is reckoned amongst those secret conveyances mentioned by Ovid.

De Aste Amanda Caveas hoc custos, pro chartà, consciu tergum Prabeat, inque suo corpore vorba fera;

before

But amongst all the ancient practises in this kind, there is none for the strangenesse, to be compared unto that of Hyssicam mentioned by Herodsem, and out of him in Aulus Gellims who whilst he resided with Darins, in Persia, being desirous to send unto Aristagorus in Greece, about revolting from the Persian Government, (concerning which they had

Herod Lib. 5 cap. 35. Nocles Atti. Lib. 17, cap.

before conferred together;) But not knowing well how at that distance to convey so dangerous a businesse with fufficient fecrecy, hee at length con-trived it after this manner. He chose one of his houshold fervants that was troubled with fore eyes, pretending that for his recovery, his haire must be shaved, and his head scarified: in the performance of which Hylliaus tooke occasion to imprint his secret intentions on his servants head, and keeping him close at home till his haire was growne, hee then told him, that for his operfect recovery, hee must travaile into Greece unto Arifiagoras, who by shaving his haire the fecond time, would certainly restore him. By which relation you may fee, what strange shifts the antients were put unto, for want of skill, in this subject, that is here discourfed of.

Tis reported of fome fugitive Jewes at the fiege of Jerufalem, who more fecurely to carry away their

Ioseph de B:llo Inda. lib. 6.e. 15. Sol n.Pelybelt.cap.6

a t v 2.By Wa-

gold, did first melt it into bullets, and then swallow it downe, venting it afterwards amongst their other excrements. Now if a man had but his faculty; who could write Homen Iliads, in so small a volume as might be contained in a nut shell, it were an easie matter for him, by this tricker of the Jewes, securely to convey a whole packet of letters.

2. When all the land passages have beene stopped up, then have the antients used other secret conveiances by water; writing their intentions on thin plates of leade, and fastning them to the armes or thighes of some expert swimmer. * Fronting relates. that when Luculius would informe a belieged City of his comming to fuccour them, hee put his letters into two bladders, betwixt which a common Souldier in the difguise of a fea-monster, was appointed to swimunto the City. There have bin likewise more exquisite inventions to passe under the water, either by

De Stratag

MESSENGER.

a mans selse, or in a boate, wherein he might also carry provision; only having a long truncke or pipe, with a tunnell at the top of it; to let downe fresh ayre. But for the prevention of all fuch conveyances, the antienrs were wont in their strictest fieges, to croffe the rivers with ftrong * ners , to fasten stakes in se- * ran laio

verall parts of the channell with cap. 37. sharpe irons, as the blades of swords,

flicking upon them. 3. Hence was it that there have beene other meanes attempted the open through the open ayre. Either by

using birds, as Pidgeons and Swallowes insted of messengers, of which I shall treate more particularly in the fixteenth Chapter. Or elfe by fastning a writing to an arrow, or the weight that is cast from a fling.

Somewhat of this nature, was that intimation agreed upon betwixt David and Ionathan, though I samiao. that invention doe somewhat savour

ayre.

Vrama five lib. 8. cap.128. of the antient simplicity and rudenesses invention mentioned by Herodotus concerning Artabazus and Timoxenus, who when they could not come together, were wont to informe one another of any thing that concerned their affaires, by fastning a letter unto an arrow, and directing it unto some appointed place, where it might bee received.

Polyenus lub. 2 -See Plutarch in Cimon. Thus also Cleonymus King of Lacedamon, in the siege of the City Trezene, injoyned the Souldiers to shoot severall arrowes into the Towne, with notes saftned unto them having this inscription, the trade was not the sound of the

When Cicero was so straightly befieged by the Galls, that the Souldiers were almost ready to yeeld; Cefar being desirous to encourage

him

MESSENGER.

him with the newes of some other forces that were to come unto his ayde, did shoote an arrow into the City, with these words fastned unto it; Casar Ciceroni siduciam optat, expella auxilium. By which meanes the Souldiers were persuaded to hold out so long, till these new successive and breake up the siege.

The fame thing might also bee done more securely, by rolling up a note within the head of an arrow, and then shooting of it to a confederates Tent, or to any other ap-

pointed place.

To this purpose is that which Lypfius relates out of Appian; concerning an antient custome for the besteged to write their minds briefely in a little piece of leade, which they could with a sling cast a great distance, and exactly hit ary such particular place as should be agreed upon? where the confederate might receive it, and by the same D 2 meanes

Poliorcetalib. 4. cap.
Dialog. 2.
mentioned also
by Heliodor.
Hist. Authio.
lib. 9.

meanes returne an answere.

Of this nature likewise are those kind of bullets, lately invented in these Germane warres, in which they can shoot not onely letters, corne, and the like: but (which is the strangest) powder also into a besieged City.

World in the Moon chap 14. But amongst all other possible conveyances through the ayre, imagination it selfe cannot conceive any one more usefull, then the invention of a flying charriot, which I have mentioned elsewhere. Since by this meanes, a man may have as free a passes as a bird, which is not hindred, either by the highest walls, or the deepest rivers and trenches, or the most warchfull Sentinels. But of this perhaps I may have occasion to treate more largely in some other discourse.

CHAT. 5.

CHAP. 5.

Of that secrecy which consists in the materials of writing, whether the Paper or Inke.

The feverall inventions of the ancients for the private conveyance, of any written meffage, were the fubject of the last Chapter.

The fecrecy of writing may con-

either in The materials, or The Forme.

fift,

1. The Materials of writing are the Paper and Inke, (or that which is inflead of them), bothwhich may be fo privately ordered, that the inferibed fence shall not bee discoverable without certaine helpes and directions.

I. The chiefe contrivance of fecrecy by the paper, in use amongst

1. The Pa-

Sclenus de

Cryptogra.

bb.8.c

The fecret and swift

the Ancients, was the Lacedemonian Screale: The minner of which was thus : there were provided two round staves of an equall length and size: the Magistrats alwayes retaining one of them at home, and the other being carried abroad by the Generall, at his going forth to warre. When there was any fecret businesse to bee writ by it, their manner was to wrap a narrow thong of Parchment about one of these staves, by a serpentine revolution, fo that the edges of it might meetclosetogether:upon both which edges they inscribed their Epiftle, whereas the Parchment being taken off, there appeared nothing but pieces of letters on the fides of it, which could not be joyned together into the right sence, without the true Seytale. Thus is it briefly and fully described by Ausonius.

Aufonius ad Paulinum

Vel Lacedemoniam Scytalen i nitate

Segmina Pergamei, teretizircumdata ligno

Perpetuo

Perpetuo inscribens versu, deinde Colutsu. Non respondentes sparse dabit ordine

formas.

You may read in Plutarch, how by this meanes, Pharnabaz did deceive Lyfander.

Tis true indeed, that this way was not of fuch inextricable fecrecy, but that a little examination might have easily discover it, (as Scaliger truly observes) however in those ages,

which were leffe versed in these kinds of experiments, it feemed much more fecret then now it doe's unto us; and in these times, there are such other meanes of private discoursing, which, even Scaligers eyes, (as good as they were) could not discover. And therefore it was too inconfiderate and magisteriall a sentence of him, from thence to conclude, all this kinde of learning to bee vaine and uselesse, serving only for imposture, and to perplex the inquirer.

Tis

In Uta Lyfandri.

Exerc. 327

Voscius de Arte Gram li . I. c. 40 40

Veget de re

Tis certaine that some occasions may require the exactest privacie, And tis as certaine, that there may be some wayes of secrecy, which it were madnesse for a man to think he could unfold. Furori simile effe vide. tur, fibi aliquem persuadere, tam circumspedum hominem esse posse, ut se a furtivo quodam scripto, abdita que machinatione tuefi poffit : nam aftans quilibet, vel procul distans loquitur, & fallum nunciat, ut non folum à nemine percipiatur, sed ne sic quidem significare quippiam posse existimer, faith Vegerius. And Baptifle Ports (who had a strange and incredible ability in discovering of secret writings, yet doth ingeniously confeffe, Multa efe poffe furtiva scripta, que se interpretaturun quenquam polliceri, furorem ac delirium plane existima-

Prouve i 16 3. de furcivis nocu.

> So that though the ancient inventions of this kind, were too eafily diffeoverable, yet scaliger had no reafonto conclude this to be a needlesse art, or that therefore hee could un

fold any other way that might bee invented. But this by the way.

2. The other materiall of writing is the inke,or that liquor which is used instead of it, by which means also, there are fundry wayes of se-

crecy, commonly mentioned in naturall Magicke. Thus if a man write with falt Am-

moniack, dissolved in water, the letters will not appeare legible, till the paper be held by the fire: this others affirm to be true also in the juyce of onyons, Lemons, with diverse the like acid and corroding movitures.

And on the contrary, those letters that are written with dissolved Allum, will not be discernable till the

paper be dipped in water.

There are some other suyces that doe not appeare, till the paper bee held betwixt a Candle and the eye.

That which is written with the water of putrified willow, or the distilled juyce of Glow-wormes, will not be visible but in the darke, as Porta af-

Inhe.

Porta. Ma. gie, lib. 16. Wecker de Secres. lib. loach, Fertius Experi-

Cardan. Subt. Lib. 17. Item de varietate lib. I 2.cap 6I.

Thid.

e set

B ibliander de Rasione com, lingua tum.

Defurtiv.lit.

affirmes from his owne experi-

There is also a secret way of writing with two severall inks, both of them alike in colour, but the one being of that nature, that it will easily be rubbed or washed off, and the other not.

A man may likewise write secretly with a raw egge, the letters of which; being throughly dryed, let the whole paper bee blacked over with inke, that it may appears without any inscription. And when this inke is also well dryed, if you doe afterwards gently scrape it over with a knife, it will fall off from those places, where before the words were

Those letters that are described with milke or urine, or fat, or any other glutinous moysture, will not bee legible unlesse dust be first scattered upon them, which by adhering to those places, will discover the writing. This way is

mentioned by Ovid,

Tuta quoque est, fallitque oculos e la-Be recenti Litera, carbonis pulvere tange, leges.

And 'tis thought that Attalm made use of this devise, the better to excite the courage of his Souldiers. Being before the Battell to facrifice to the Gods for successe, as hee 'pulled out the intrals of the beast, he described upon them these words, Regis victoria, which he had before written backward in his hand with fome gummy juyce. The in-trals being turned up and downe by the Priest to find out their signification, the letters did by that meanes gather fo much dust as to appeare legible. By which omen the Souldiers were fo strangely heightned in their hopes and valour, that they won the day.

Unto these experiments of secrecy

Gall. Sale mus de Criptographia lib.8.

in the Materials of writing, some adde those other wayes of expressing any private intimation by drawing a string through the holes of a little tablet or boord; these holes should bee of the same number with the letters, unto which by compact they should be severally applied. The order of the threeds passing through them, may serve to expresse any words, and so consequently any sence wee would discover.

To this purpose likewise is that other way of secret information, by divers knots tied upon a string according to certaine distances; by which a man may as distinct; by and yet as Secretly, expressed in meaning as by any other way of discourse. For who would mistrust any private newes of trechery, to lye had in a threed, wherein there was nothing to be discerned, but fundry confused knots or other the like marks?

The

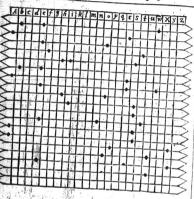
MESSENGER.

The manner of performing it, is thus. Let there bee a square piece of plate, or Tablet of Wood like a Trencher, with the twenty foure Letters described on the toppe of it, at equall distances, and after any order that may bee agreed upon before hand, on both the opposite sides, let there bee diverse little teeth, on which the string may be hitched or fastned for its several!

teeth, on which the string may be hitched or fastned for its severall returnes. As in the following sigure.

Where

The secret and swift



Where the string is supposed to be fastined by a loope on the first tooth, toward the letter A, and afterwards to be drawne successively over all the rest. The markes upon it doe expresse the secret meaning.

Beware of this Bearer who is fent as a fpie over you. When it is taken off, and fent to a confederate, hee may eafily understand its intention, by applying it to his owne Tablet, which must be answerable unto this. The instrument may be made much longger then is here expressed : But it the matter to be revealed should happen to be more then the Tablet would beare, then may it be supplyed, either by another string, or else by beginning againe with that part of the same string, wherein the last letter was terminated.

There may be divers other inventionsof this kind, but I have not observed any more remarkable, then those

which are already mentioned.

CHAP.

CHAP. VI.

Secret writing with the common letters, by changing of their places.

Selenus de Cupiographia lib. 2. cap. 5. drs motorii occuliand; inter avies Subtilitate proflantes annumevanda est. Cordan, 1 Subtil 1.72. That fecrecy which does confift in the forme of writing, is when the words, or letters are fo framed by compact, that they are not of ordinary fignification. The inventions of this kind, may both for their pleafure and benefit, justly challenge a place amongst our other studies.

Saint Austin speaking of such humane inventions as are to be embraced of avoyded, and rejecting all magicall institutions and commerce with the Devill, he adjoynes. Earth qua homines cum hominibus habent, as summer of the expension of the expen

luxu

De Doctrin Christiana hb.2 c. 26.

MESSENGER.

laxu enervant; si tantum occupent; ut majoribm rebm, quibm inservire debent, non sint impedimento.

This way of secret writing, may be contrived, either

I. By the common letters.

2. Or by fome invented notes and characters in flead of them. Both these being diftinguishable into those kinds that containe either.

r. Equall.

2. Or more.

 Or fewer fignes then are naturally required to the true framing of the word.

The particulars of these, may be altered to such great variety as cannot be reckoned, and therefore I shall specific those onely which seeme most remarkeable, either for their antiquity or usefulnesse.

The way of fecret writing by equall letters, is eitherby changing of

Their places, or
 Their powers

E

I. By

Lines. of the Letters.

Both.

transpofing the

1. A min may obscure the sense by perplexing the order of the lines. If they be written, not onely from the left hand to the right, but also from the right hand to the left, as in the Easterne languages, or from the top to the bottom, and so upward againe, as is commonly relared to be usuall amongst the inhabitants of Taprobana in the South-fea, with those in China and Iapan. cording to this following example.

cap. 8.

erfdlee' ietoofwiih lunhhsnt photoavcs Pahttltrhe unthelset fdielngaot yfwfbonfdi e e g e e b m a n e

fing the

letters.

By traf. poling

MESSENGER.

In the reading of which, if you begin at the first letter towards the right hand, and so downewards, and then upwards againe; you may find these words expressed.

The pestilence doth still increase among st au , we shall not be able to hold out the flege without fresh and speedy supply. 2. A man may obscure the sence

of his writing, by transposing each letter according to some unusuall order. As suppose the first letter should bee at the latter end of the line, the second at the beginning, or

the like. 3. The meaning of any written message may be concealed, by altering the order both of the letters and the lines together. As if a man letters. should write each letter in two seve-

rall lines, thus. Teoliraclmsfm fe splvoweutel hfudesralotaihd, upysremsyid

The Souldiers are almost familibed, Supply m, or we must yield.

The lecret and (wift

Or as many more as thelength of the cpiffle fhal equire.

This way may be yet further ob-fcured by placing them in * foure lines, and after any discontinuate order. As suppose that the first letter be in the beginning of the first line, the second in the beginning of the fourth line; the third, in the end of the first: the fourth in the end of the fourth; the fifth, in the beginning of the second line; the fixth, in the beginning of the third; the seventh in the end of the second; the eight, in the end of the third, and so of the rest. As in this example.

Wmrpitahhseteinpke hathfonoihkft oenil anoerrocgttthmnvrl

e auomhteinlenet tef

Which in it's resolution is this. We shall make an irruption upon the enemie from the North at ten of the clock this night.

Walching Fab. 9.

This way will vet seeme more obscure if each line be severed into such words as may feeme barbarous.

All

All these kinds may be varied unto divers other more intricate transpolitions, according as a mans fancy or occasion shall lead him.

CHAP. VII.

Concerning secret writing with equal letters, by changing their powers. The we of this among ft the lewes and Romanes. The Key-charader.

Sa written message may bee A concealed by changing the pla-es of the letters, so likewise by changing of their Powers, putting one of them for another, as suppose L for A, and A for Lorthe like. Answerable to that kind of Cabalisme in the Jewish learning, which the Rabbies call pray or Combinatio, when the letters of the Alphabet are severally transposed, and taken one for another, after any knowne order. Of which there be

Schickard in Bechinath. Haperus. Difbl 4. Gla flins Philolog. l z. part. I tract ... fi # . 3 a # 7 as many kinds, as there may be severall combinations of the letters. But amongst the rest, they observe two of more frequent use. The first is stilled from the source first correspondent letters have albam: in which they are thus opposite to one another.

אבגדהווחטיכ למנסעםצקרשה

The other is from the same reafon called wins Athbalb, wherein the letters are thus mutually opposed

אבגדהווחטיב השרקצםעכנמל

Both these kinds of secret writing the Jewish Doctors thinke to be sire quently nied by the sacred pen-men of holy writ, amongst whom the Prophet Isiah and Ieremiah, are observed to be of more especials note for their skill in Cabalismes.

By the first of these combinations called Alvan, that place of Isiah 7.6, is usually interpreted; where there is a person mentioned under the un-

knowne

MESSENGER

knowne name of מבאל Tabeal, whom the Prophet affirmes to aspire unto the Crowne of Iudah, meaning by a fecret transmutation of the letters תמלה Remaliah the King of Ifrael, whom he was loath more expressely to nominate. And therefore hee veiles it by this kind of fecrecy, inflead of writing the letter above it o, for nthe correspondent letter a, and fo b for m, and m for b. Which being joyned together, doe make ירמלא inflead of מבאל.

By the second of these combinations called Athbash, is that place Ierem. 51. t. translated : where by the originall cor insurgentium contra me, is meant _____ the Chaldeans: And therefore both the Targum and the Septuagint doe unanimoully translate it so, as if in their version of it, they had chiefly refpected unto this kind of Cabalifire. So likewise in 41. verse of the same Chapter, by the fained name of is meant 522 E 4

0 36. vide Hieron.

This

Sacton, in vità ejus. Aul Gellius Nott. Asuc. lib. 17.6.9.

This way of secret writing, hath beene also in use amongst the antient Romans; Thus Suetonia relates of Fulius Casar, when hee would convey any private businesse, he did usually write it, per quartam elementorum steram, that is D for A, E for B. and so of the rest. After this order.

defghiklmnopqrftvwxyzabc, abcdefghiklmnopqrstuwxyz, Hasten unso me,

Ldwxhq yqxr ph.

And the same author reports of Ofavina Augustian, that in the writing of his secrets, hee did Secundum elementum proprii loco substituere, set downe the second letter for the first, as B for A, C'for B, and for A a double x X.

But now, because such an Epistle might bee easily unfolded, being altogether written by the same way, therefore this kind of secrecy, hath by later invention, beene further obscured, by writing each severall severall word or line, or letter, by a divers Alphabet.

For the performance of this, two friends must beforehand by compact, agree upon some certaine forme of words, that may be insted of a key, serving both to close, and to unlocke the writing; which words would be lesse discoverable, if they bee barbarous and of no fignification.

But for the easier apprehending of this, I shall explain it in an example.

Suppose the key agreed upon, were onely this one word Prudentia.

Having first framed severall Alphabets according to each of its letters : Thus,

Abc

	1 be secret and swift
	Abcdefghiklmnopqrstuwxyz Rstuwxyzabcdefghiklmnopq Vwxyzabcdefghiklmnopqrstuwxyzabcd Efghiklmnopqrstuwxyzabcd Fghiklmnopqrstuwxyzabcd Tuwxyzabcdefghiklmnopqrstuwxyzabcd Tuwxyzabcdefghiklmnopqrstuwxyzabcd Robcdefghiklmnopqrstuwxyzabcdefghiklm
å	

I may write each line or word, or letter, according as the order of these Alphabets shall direct. As in these examples.

In the lines.

Ixt hdkasytgh bkiyen xfinrel fx matlmrck; npkkfs pn, im oczs qdff uhyrox xr xlh hqmpmh.

MESSENGER.

In the words.

Ixt kfincuawik gpodhs iru aery bsoiwnotem; bdyytg vs, dg lzwp qdff uhyrox ys gur ygcfcy.

3. In the letters.

Izz wshemitin pzgewy vfm zean xfkaxxznebr skgkoc hm, xr izzb awet rtm iox gh cht whmqwy.

Which examples being unfolded, doe each of them expresse this inward meaning.

The Souldiers mutiny for want of visuals; Supply us, or they will Revolt to the enemie.

These wayes may be yet further obscured, if the first Alphabet, (according to which the rest are described)

bed) bee contrived after any mixed order. As suppose instead of the ordinary Abc, &c. there bee written these letters after this manner.

Rzkmpseblauft cygwhxoqind.

And then will they be liable to all those other differences of secrecy, that are usually invented by the wheele-charaster, which you may see largely described by Porta.

There may be divers other wayes to this purpose, but by these you may sufficiently discerne the nature of the rest.

CHAP.

CHAP. VIII.

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of

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n-

Of secret writing by more letters then are requisite to the intended meaning.

He different kinds of secrecy by equal letters have beene already handled. The next particular to be discussed, is concerning the wayes of hiding any private sence, under more letters then are required to the words of it.

Of which kind there may be divers particulars, some of them in use amongst the Antients.

I. A writing may be so contrived, that onely one letter in a verse shall bee significant. As it was in those remarkeable Acrosticks made by a Sybill concerning our Saviour: where the letters at the beginning of each verse, being put together, made up these words, lucius xsisis in insert contributions.

Sybille Erythree.

The fares and frift.

saviour. Christ the Sonne of God a

Beda lib de Sybill is

The translation of these you may see in St. Augustine de Civit. Dei lib. 18, 18, 18, 23. And the originall are mentioned by Ludovicos Vives, in his notes upon that place.

According unto this, doth Planta contrive the name of his Comedies in the first letters of their arguments. But this way is so ordinary in practise, that it needs not any surther explication.

2. The inward sence hath like. wise beene conveyed by some single letters of severall words in the same verse. As in that common distich.

Vale.

Mitto tihi caput Veneru, ventremque Di Ana

Latronifque caput, posteriora canE.

3. Sometimes one letter in each word was only significant. By v hich way of secret expression, the Holy-Ghost (say the Rabbies) hath purposely involved many sacred myste-

rics

riesin Scripture. When these signisicant letters were at the beginning of each word, the Cabalists, in their learning, called such an implicit writing man rown Capita distinuum. When they were at the latter end, then was it stilled man was fitseld man was distinuum. Both being reckoned as species of that Cabalisme which they called propose Notaricon, imposed by some later Rabbies from the Latin word Notarian.

Of the first sort, is that colledion from those eminent words, Gen. 49. 10. 151 mb shilo shilo shill come, and in him, &c. where the capitall letters make up the word

lefu.

The capitall letters. Lib Vijo.

The fect et and swift

that Nation befooled in their abfurd dorage, upon these triviall literall collections, that a reason of this nature is of greater force unto them, then the most evident, solid demonstration that may be urged. Ludovicus Carret a famous Jew, Physician to the French King, being himselfe converted, and writing an Epistle to this purpose, unto those of his owne nation, he do's chiefely insist upon the arguments of this kind, as being in his opinion of greatest efficacy to prove the truth of Christian Religion.

letters.

Of the other fort is that passage
The finali Gen. I. I. אלהם אולהם where the finall letters make up the word now or Truth. Which kind of Cabalisme is fixe times repeated in the history of the Creation. As if Moses by such an artificiall contrivance of the letters at the beginning of his writings, did purposely commend unto our beliefe his following bookes. Unto this David is thought

to

ning of ehyword is non Truth. Of this nature likewise is that observation from Exod. 3. 13. no no no is. when they shall say unto me, what is his name, Ge. Where the finall letters answere min schools.

It were an easie matter for a man that had leasure and patience for such enquiries, to find out sundry arguments of this kind, for any purpose.

4. There is another way of hiding any secret sence under an ordinarie epistle, by having a * plate with certaine holes in it, through which (being laid upon the paper) a man may write those letters or words, that serve to expresse the inward sence; the other spaces being afterwards silled up with such other words, as in their conjunction to these former, shall conteine some common unspected businesse.

5. There is also another intricate way to this purpose, much insisted on by * Tritemius, Porta and F Sylenus.

Cardau de Subtil·lib.

I ortade
furt . ub. 2.
furt . ub. 2.
cap. 18.
Such as
Printers
use when
they are
to ment
diverse
red letters amongst
the black.

forme of an epistle, is varied to as many differences as there are letters, unto which they must all of them be severally assigned. But these two latter inventions (though they be of great secrecy, yet) because they require so much labour and trouble in the writer, I shall therefore passe them over without any surther enlargement.

CHAPA TO.

CHAP. IX.

Of concealing any written sence under barbarous words, and such as shall not seeme to be of any signification. How all the letters may be expressed by any sive; three, or two of them. Of writing with a double Alphabet. How from these two last wayes together, there may be contrived the best kind of secret writing:

A LL the wayes of secrecy by more letters, already specified, doe make the writing appeare under some other sence, then what is intended, and so consequently are more free from suspition: There are likewise some other inventions to expresse any inward sence by barbarous words, wherein onely the first, and middle, and last letters shall be significant. As in this example.

Fildy

The feeres and swift

Fildy, fagodur wyndeeldrare disc ogure rantibrad.

Which in its resolution is no

more then this.

Fly for we are discovered.

To this purpose likewise is that other way of expressing the whole Alphabet, by any five, or three, or two of the letters repeated. And though such a writing, to ordinary appearance, will seeme of no signication at all, and so may seeme of lesse use; Yet because a right apprehension of these wayes, may conduce to the explication of some other particulars that follow, it will not be amisse therefore to set them down more distinctinly.

All the letters may be expressed by any five of them doubled. Sup.

pose ABCDE.

ABCDEFGHIKLMN aa ab ac ad ae ba bb bc bd be ca cb cc OPQRSTVWXYZ.&cd ee da db dc dd de ea eb ec ed. ee

According to which, these words, am beer ayed, may bee thus described.

Bd aach abaedddbaaecaead.

Three letters being transposed through three places doe give sufficient difference, whereby to expresse the whole Alphabet.

A B C D E F G H A aaa aab aac baa bbabbabc aca aca acb ccc aba abb abc aca acb acc bca T V W X Y Z & bcb bcc bab cba cbb cbc bac

Hasten unto me.

Caa aaa bca bcb bba abb bcc abb bcb abc aba bba.

F.3

Two

The whole Alphaber expressed by any two letters in five places

Iwo letters of the Alphabet, being transposed through five places, will yield thirty two differences, and so will more then serve for the source and twenty letters. Unto which they may be thus applyed.

A. B. C. D. E. acces. acces. acces. acces.

asbab. sabba. aabbb. abasa. abasb.

Z. M. N. O. P. abbab. abbba. abbba.

abbbb. baasa. baasb. baaba. baabb.

babas. babab. babba. babbb.

aababababababa aaaaababaaaaaababba.

6 1 y 2 w 2

Writing by a double Alphabet. -

There is yet another way of secrecy by more letters then are naturally required to the inward sence, if, we write with a double Alphabet, wherein each letter shall in the fashion of it, beare some such small distinction from the other of the same kind, as is usuall in common, mixed writing.

For Example.

The first Alphabet.

F 4

As

Aa. Bb.Cc. Dab. Ee. Ff. Gg. 31 h.
fi. Kk. Ll. mm. nn. Oo. Py. Qq
Rr. SJs. Tt. Vuv. Ww. Xx. Yy. Zz

The second Alphabet

Aa. BB. Co. DB. Es. ff. Gg. Jih

Ji. Kk. Ll. Mm. Xn. Oo. Pp. Qg.

Rr. Ss. Ts. Vuv. Ww. Xx Yy Zz

nary matter, or (if it be needfull) contrary to what you intend. Let the body of it consist chiefely of

MESSENGER.

the first Alphaber, onely inserting (as you have octasion) such leavers of the second, as may expresse that inward meaning which you would reveale to a confederate.

For example, from those that are besieged.

Wes prosper still in our affaires and shall (without having any further helps) endure the siege.

In which clause, the letters of the second Alphaber are onely significant, expressing this inward sence.

Weeperish with hunger helpe us.

But because the differences twixt these two Alphabets may seeme more easily discoverable, since they are both generally of the same kind; the letters of the second being all of them more round and full then the other; Therefore for their better secrecy in this particular, it were safer to mixe them bothby compact, that they might not, in themselves, be distinguishable.

The best way of secret writing.

Bacon.
A gment.
scient. 6.
cap. 8. Now if this kind of writing, be mixed with the latter way of Secrecy, by two letters transposed through five places; Wee may then write omnia per omnia, which (as a learned man speakes) is the highest degree of this Cyphering.

For

For supposing each letter of the sirst Alphabet to bee instead of the letter A, and those of the other for B, wee may easily inscribe any secret sence in any ordinary letter, onely by a quintuple proportion of the writing, instolding to the writing insoulded. As for example.

All things do happen ac cording to our desires the particulars you shall voor stand when wee meets at the appointed time and place of which you must not faile by any means The successof our affairs dos much depend vpon the meeting that wee lave agreed vpon.

The involved meaning of which clause is this.

Fly, for we are discovered, I am sorced to write this.

If you suppose each letter of the first Alphabet to be instead of A, and those of the second for B, then wil the former clause be equivalent to this following description.

Aabab ababa babba aabab abbab baaaa babaa F 1 y f o r w

e e a r e d

abaaa baaab aaaba abbab baabb aabaa

bassa sabas asabb abasa asasa ababb

aabab

The fectet and swift

for ced

baaba abbab babaa baasa abasa baaba

aabaa baaba aabbb abaaa baaab.

This way of secrecy may be serviceable for such occasions as these. Suppose a man were taken captive, he may by this meanes discover to his friends the secrets of the enemies Camp, under the outward forme of a letter perswading them to yield. Or suppose such a man were forced by his owne hand writing to betriy his cause and party, though the words of it in common appe rance may expresse what the enemie do's desire; yet the involved meaning, (which shall be legible onely to his confederates) may containe any thing thing else, which he has a mind to discover to them. As in the former

example.

But now if there be a threefold Alphabet, (as is easie to contrive,) then the inward writing will beare unto the outward but a triple proportion, which will be much more convenient for inlarging of the private intimations.

And this way of writing is justly to be preferred before any of the other, as containing in it more eminently, all those conditions that are desirable in such kind of inventions.

As,

- 1. Tis not very laborious, either to write or reade.
- 2. Tis very difficult to be decyphered by the enemic.
 - 3. Tis voyd of suspition.

The ferret and wift

But by the way, tis to 72 ge nerally observed, that the mixture of divers kinds of secret writing toge ther (as suppose this with the keycharacter) will make the inward sence to be much more intricate and perplexed.

CHAP. TO.

CHAP. 10.

of writing any secret sense, by sewer letters then are required to the words of st. The use of this amongst the Jews and Romans.

S the sense may be obscured, by writing it with more letters, then are required to the words of it, so likewise by fewer. Abbreviations have beene anciently used in all the learned languages, especially in common forms, and phrases of frequent use. Somtimes by contracting words, when some parts of them did stand for the whole. So in the Hebrew'131 for אולו et totum illud, which is all one with our et cetera &cc. יכלומר for דכלומר secundum dicere, equivalent to our viz. orv. g. verbi grația. So likewise in the Greek xer for xusic, and dogs for disease. And in the Latin Das for Dominus, and for Anima, and the like. But these were rather for the speed of writing then the Secrecie. Som-G

Buxtorf. de Abbreviat. in in tio. 1 bid

Somtimes words were expressed only by their first letters. Thus did the Jews write all their memorialls, and common forms, which are largely handled by Buxtorfe. Hence was it, that their Captain Judas had his name of Maceaby. For being to fight against Antiochus, he gave that saying for his watchword, Ex. 15. Did thee (O Lord) amongst the Gods? inscribing in his ensignes the capitall letters of it; "In Macabi. Whereupon after the victory, the Souldiers styled their Captaine by that name.

Tis observed by the Rabbies, that many grand mysteries are this way implied in the words of Scripture. Thus, where it is said, Psalm. 3. Did Many rise up against me: 'tis interpreted from the severall letters, Rest the Romans, Best the Babylonians, 3od the Jonians or Grecians, Mem the Medes. Answerable unto which, that place in Gen. 49. 10. (speaking of Shilo, unto whom map' the gathering of the people

shall be) is by another Rabbie applied to the Jews, Christians, Heathens, and Turks.

Upon these grounds likewise, is that argument to prove the Trinity, from the first verse of Genesis. מלחים The word אלהים Elehim, being of the plurall number, is thought to be that divine name, which denoteth the persons of the Deitie; which persons are more particularly intimated in the letters of the verbe N72, that answers unto it: 3 Beth being put for 12 the Son, 7 Rest for min the Holy Ghost, M Aleph for an the Father. And if you will beleeve the Jews, the Holy spirit hath purposely involved in the words of Scripture, every fecret that belongs to any Art or Science, under such Cabalisms as these. And if a man were but expert in unfolding of them, it were easie for him to get as much knowledge as Adam had in his innocencie, or humane nature is capable of.

These kind of mysterious interpre-

G 2

tations

The secret and swift

Gen.17.5.

Vide Tertul.l.b.de prescr.c.50

Iren.lib. I.

feeme to be somwhat favoured, by Gods addition of the letter in unto the name of Abram and Sara, upon the renewing of his covenant with them: which in all likelihood was not without some secret mysterie. That being the chiefe letter of the Tetragrammaton, might perhaps intimate that amongst their other posterity, with the promise of which hee had then blessed them, they should also be the parents of the Messas, who was Jehovah.

This likewise others have confirmed from the example of Christ, who cals himself Alpha & Omega. Revel. 1.8.

But though such conjectures may be allowable in some particulars; yet to make all Scriptures capable of the like secrets does give such a latitude to mens roving & corrupt fancies, as must needs occasion many wild and strange absurdities. And therfore Ireness does sitly observe, that from such idle collections as these, many heresies of the Valeninians and Gnosticks had their

their first beginnings.

As this way of short writing by the first letters, was of antient use amongst the Jews, fo likewise amongst the Romans: which appeares from many of their contractions yet remaining, as S.P.D. Salutem plurimam dicit.S.P.Q.R. Senatsus populusque Romanus. CR. Civis Romansus. VC. Vrbs codiça. And the like.

These single letters were called Sigla, per Syncopen, from the obsolete word Sigilla, whence Sigillatim. They were usually inscribed in their coines, statues, arms, monuments, and publike records. You may fee them largely treated of by Valerius Probus, where he affirms the study of them to be very necessary, for one that would understand the Roman affaires. His enim exprimebant nomina Curiarum, Tribuum, Comitiorum, Sacerdotiorum, Potestatum, Magistratuum, Prafecturarum, Sacrorum ludorum, Rerum urbanarum, rerum militarium, Collegiorum, Decuriarum, Faflorum, Numerorum, Mensurarum, Juris civilis, & similium. They

G 3

Lib.de liter. antiquis. As it is fer forth by Iacobus Mazichius

The secret and swift

They were first used by the Notaries at Senates and other publike assemblies, and from thence retained in their Statutes & civil Lawes: Whence Manilius makes it the note of a good Lawyer.

— Qui legum tabulas & condita jura Noverit, asq:notis levibus pendentia verba.

Thus (saith Isdor) (A) inversed y did formerly stand for pupilla, and M inversed w for mulier. By these letters DERICP, is signified Deeare ita censuerunt patres.

When the Judges were to inscribe their severall opinions on a little stone or Tessera, to be cast into the urne, by the note A, they did absolve, by * K condemn; by N.L. Non liques, they did intimate that they could not tell what to make of the businesse, and did therefore suspend their judgements.

But because of those many ambiguities, which this contracted way of writing was liable unto, and the great inconveniences that might happen thereupon in the misinterpretation of

Lawes:

Bibliand, de ratione com ling.

I fider.

Pet.Cringt. Honeft. D sc.lib.6. cap.8.

* From theGreek.

MESSENGER.

Lawes: therefore the Emperour Juflinian did afterwards severely forbid
any further use of them, as it were,
calling in all those Law bookes that
were so written. Neq; enim licentiam
aperimus ex tali codice in judicium aliquid
recitari.

Lib. 1 . Cod. Tit. 17, leg.

The chiefe purpose of these antient Abbreviations amongst the Romans, was properly for their speed. But it is easie to apprehend, how by compact, they may be contrived also for Secrecy.

Of writing by invented Characters.

The distinction of these in-Swords.
to such as signific either Inotions.

The generall rules of unfolding and obscuring any letter-characters. How to expresse any sense, either by points, or lines, or figures.

Besides the wayes of Secret writing by the common letters; there G 4 may

The secret and swife -

may likewise be divers others by invented notes.

The difference of characters, whereby severall languages are express, is part of the second generall curse in the consustion of tongues. For as before there was but one way of speaking, so also but one way of writing. And as now, not only nations, but particular men, may discover their thoughts by any different articulate sounds, so likewise by any written signes.

These invented characters in the generall, are distinguishable into such as signific either

I Letters.

2 Words.

3 Things, and notions.

First, concerning those that significal letters. To which kind, some learned men refer the Hebrew character that is now in use: Affirming that Ezra first invented it, thereby the better to conceale the secrets of their Law, and that they might not have so much as their

The letter chara-

Hieronym.

praf. ad lib.

Regum.

Iofeph Scal.

not is ad E u
seb.

their manner of writing common with the Samaritans & other Schismaticks.

Twere but needlesse to set downe any particulars of this kind, since it is so easie for any ordinary man to inventor vary them at pleasure.

The rules that are usually prescribed for the unfolding of such chara-

cters, are briefly these.

the vowells and consonants. The vowells may be knowne by their frequencie, there being no word without some of them. If there be any single character in English, it must be one of these three vowells, s.i.o.

of the letters. For the understanding of this, you must mark which of them are most common, and which more seldome used. (This the Printers in any language can easily informe you of, who doe accordingly provide their sets of letters.) Which of them may be doubled, and which not, as H. 2.

X. T. And then for the number of yowells

vowells or consonants in the beginning, middle, or end of words, a man must provide severall tables, whence hee may readily guesse at any word, from the number and nature of the letters that make it. As what words consist only of vowells; what have one vowell and one consonant, whether the vowell be first. As in these words. Am. an.as.if.in.is.it.of.on or.us. Or last, as in these words. Be. be. me. by.dy.ly.my.ty. do.to.fo. &cc. And fo for all other words according to their severall quantities and natures.

These tables must be various according to the difference of languages. There are divers the like rules to be observed, which are too tedious to recite. You may see them largely handled by Baptista Ports, and Gustavus Selenus

The common rules of unfolding being once knowne, a man may the better tell how to delude them. Either by leaving out those letters that are of lesse use, as H.K. Q.X.r. and putting other

thographie

other characters instead of them, that shall signifie the vowells: So that the number of this invented Alphabet will be perfect, and the vowells, by reason of their double character, lesse distinguishable. Or a man may like-wise delude the rules of discovery, by writing continuately, without any distinction betwixt the words, or with a salse distinction, or by inserting nulls and non-significants, &c.

These Characters are besides lyable to all those other wayes, whereby the common letters may bee obscured, whether by changing their places, or

their powers.

The particulars of this kind may be of such great variety as cannot be distinctly recited. But it is the grand inconvenience of all these wayes of secrecie by invented Characters, that they are not without suspition.

For the remedying of which, there have beene some other inventions of writing by points, or lines, or figures; wherein a man would never mistrust

The secret and swift

any private message: there being nothing to be discerned in these kindes of intimation, but only, either some confused, and casuall, or else some Mathematicall descriptions. As you may see in these following examples.

By points alone.

By lines alone

The secret and swift By Mathematicall Figures. y Points, Lines, and Figures mixed together. Each of which figures doe expresse these words.

There is no safty but by flight.

The direction both for the making and unfolding of these descriptions, is this. Let the Alphabet be described at equall distances, upon some thinne and narrow Plate, Pastboard, or the like, thus.

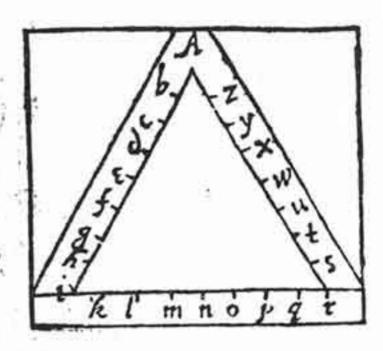
Abcosfahikimnopgrstuwxyz

Let the sides of the Paper which you are to write upon, be secretly divided into equall parts, according to the breadth of the Plate: and then by application of this to the Epistle, it is easie to conceive, how such a writing may be both composed and resolved. The Points, the ends of the Lines, and the Angles of the figures do each of them

by their different situations, expresse a severall letter.

This may likewise be otherwise performed, if the Alphabet be contrived in a Triangular forme, the middle part of it being cut out.

And so for a square or round form.



The larger these Directories are, by so much the lesse lyable unto errour will the writing be, that is described from them.

Ioh Walchi-

It is easie to apprehend, by these particulars, how a man may contrive any private saying in the forme of a Landskip or other picture. There may be divers the like ways whereby this invention of secrecie may be further obscured; but they are in themselves so obvious, that they need not any larger explication.

CHAP. 12.

Of Characters that expresse words. The first invention of these. Of those that significe things and notions, as Hierogly-phicks, Emblemes.

He next particular to be discoursed of, is concerning Characters that expresse words. The writing by these, is properly styled Stenographie, or Short-hand, Scriptura compendium, cum verba non perscribimus sed signamus, saith Lypsius. The art of them is to contrive such figures for severall syllables, as may easily bee joyned together in one forme, according as different words shall require. Thus 'tis ordinary, to represent any proper name, by some such unusuall character, as may contain in it all the letters of that name for which it is intended. Of this nature was that angular figure, so much used by the Grecians of old: which might bee resolved into the letters Danes .

Cent. R. ad Belg. Epift. 27.

Schikard. Happer. Disp.5.



This marke was esteemed so sacred amongst the Ancients, that Antiochus Soter, a perpetuall conquerour, did always instamp it upon his Coine, and inscribe it on his Ensignes; unto which he did pretend to be admonished in a dream, by an apparition of Alexander the great. And there are many superstitious women in these times, who believelthis to bee so lucky a character, that they alwayes worke it upon the fwadling clothes of their young children, thinking thereby to make them more healthful and prosperous in their lives. Unto this kind also, some referre the characters that are used in Magick, which are mayntained to have not only a secret signification, but likewise a naturall efficacie.

This short-hand writing, is now so ordinary in practice (it being usuall for any common Mechanick both to write

and

MESSENGER.

and invent it) that I shall not need to set downe any particular example of it. In ancient times, it was not so frequently used: But then there was a twofold kind of it.

Private. Publick.

These private characters were practised by the Roman Magistrates, and others of eminent favour amongst them: Who being often importuned to write in the commendation of those persons they knew not, were faine to agree upon some secret notes, whereby their serious Epistles, might be distinguished from those of forme. Whence the Proverbe arose, De meliori nota commendare.

The other characters of publike and common use, are many of them explained by Valerius Probus in his booke de literis antiquis. And there is a whole Volume or Dictionary of them, set forth by Jamus Gruterus. From the practice of these came the word Notarius, as Saint Austin observes.

H 2

The

And therfore Pancerollus
reckons it
amongst
these later
inventions, lib.de
Repert, tit,

Casaubon.
notis in
Æn:.Poliorcet cap.
31.

De notis-Tyronis & Scnec. a De doct. Christ. Ub. 2 cap. 26.

b In Chron.
c De inven' : rerum
lib.z cap.8.
De Polygr.

The first invention of them is commonly ascribed to Tyro, who was a servant unto Cicero. So b Eusebius, and c Polyd. Virgil. But Trithemius affirmes that Cicero himselfe writ a Treatise on this subject, which was afterwards augmented by Saint Cyprian. And that hee had found in an old Library, the copy of a Psalter, written in these characters, inscribed by some ignorant man, with this title: Psalterium in lingual Armenica.

Lib.13.ad Attic.ep.32

That Cicero was not unacquainted with these notes, may be evident from that passage to Auicus: Qued ad te de legates scrips, parum intellexit, credo quia siù esquier scripseram.

Prolog.
not. Conrad. Imp.
I fidor. Orig.lib.1.

Pet. Diaconus attributes the first invention of these, to the old Poet Ennius; whose beginnings in this kind, did afterwards receive successive addition, from the works of Tyro, Philargirus, Aquila, and Seneca the Father, by whom they were increased to the number of 5000.

De Orig. Scribendi, c. 18. juxta finem

But Hermannus Hugo, a late Jesuite, will have this short-hand writing to be

be of farre more ancient use; assiming that David alludes to the practice of it, in that phrase, Psal.45.1. The pen of a readywriter. And that the writing upon the wall in Daniel 5.25. which so puzled the Chaldean Wizards, was described in such kinde of Characters. But whether this were so or not, is not much materiall: It is sufficiently pertinent to the present enquiry; that the use of these word-characters may well enough conduce to the secrecie of any written message.

The third and last sort of signes, that have been anciently used for the expression of things and notions, are either

Hieroglyphicks or Emblemes.

I Concerning Hieroglyphicks. The word fignifies facred sculptures, which were engraven upon Pillars, Obelisces, Pyramides, and other monuments before the invention of letters. Thus the Egyptians were wont to expresse their minds, by the pictures of such creatures, as did beare in them some naturall resemblance to the thing intended.

Н

Of Hieroglyphicks.

Tacit. An-

By

Polyd Vir. de Invent. lib.g. C.II.

De honesia disciplina, lib 7.cap.2 * Lib. de vita Moss.

Lib.s.Stro-

Lucan, l

By the shape of a Bee they represented a King, intimating that hee should be endowed with Industry, Honey, and a Sting. By a Serpent with his taile in his mouth, the yeere, which returnes. into it selfe. And (which was a kind of propheticall Hieroglyphicke) by the signe of a Crosse they did anciently denote spem ventura salutis, or vitam aternam, as Pet. Crinitus relates out of Ruffinus. * Philo reckons up the knowledge of these, amongst those other abstruse Egyptian Arts, wherein Moses is said to be so expert. And Clemens relates of Pythagorus, how hee was content to be circumcifed, that so hee might be admitted to the understanding of those many and great mysteries, which were this way delivered by the ancient Priests, who did conceale all their Learning under such kind of Ma. gicall expressions, as the Poet styles them.

Nondum flumineas Memphis contexere byblos Noverat, & saxis tant um volucresque feraque, Sculptaq; servabant magicas animalia linguas.

Plu-

MESSENGER.

Plutarch speaks of a Temple in Egypt dedicated to Minerva, in the front of which, there was placed the image of an Infant, an old man, a Hawke, by which they did represent God, a Fish the expression of hatred, and a Sea-horse, the common Hieroglyphicke of Impudence. The construction of all being this, O yee that are born to die, know that God hateth Impudence.

Of this nature were those presents sent unto Darius, when hee was almost wearied in his war against the Scythians: which were a Bird, a Mouse, a Frog, and certain Arrows: Intimating that unlesse the Persians could flie as Birds, or hide themselves under water as Frogs, or inhabit the cavernes of the earth as Mice, they should not escape the Scythian Arrows. Of this kinde likewise were some military signes amongst the Romans. When any thing wasto bee carried with silence and secrecie, they lifted up the representation of a Minotaur, thereby teaching the Captains, that their counsels and contrivances

Libro de Iſid. & Ofivide.

Herodot.
Melpom.l.4
cap 130.
Clem. Alex.
Strom.5.

Pierius Hieroglyph.!.3 cap.38. Emblems
from the
Greeke
word
interferere,
injicere,

Labyrinth, which is feigned to be the habitation of that Monster.

2 Like unto these Hieroglyphicks, are the expressions by Emblems. They were usually inserted as ornaments, upon vessels of gold, and other matters of state or pleasure. Of this nature are the stamps of many ancient medalls, the Impresses of Armes, the Frontispices of Books, &c.

The kinds of them are chiefly two-

fold.

upon some resemblance in the propertie and essence of the things themselves. So a Dolphin which is a swift creature, being described upon an Anchor, which serves for the stay and rest of a Ship, signifies Festina-leme, Deliberation in counsell, and Dispatch in execution. A young Storke carrying the old one, Filiall gratitude.

Historicall, Those that refer to some common relation. So the picture of Prometheus gnawed by a Vulture,

fig-

fignifies the desert of overmuch curiositie. Phaeton, the folly of rashnesse. Narcissus the punishment of self-love.

It was formerly esteemed a great signe of wit and invention, handsomely to convey any noted saying, under such kind of expressions.

Concerning an universall Character, that may be legible to all nations and languages. The benefit, and possibility of this.

A Fter the fall of Adam, there were two generall curses inflicted on Mankinde: The one upon their labours; the other upon their language.

Against the sirst of these, we do naturally endeavour to provide, by all those common Arts and Professions, about which the World is busied: seeking thereby to abate the sweat of their brows in the earning of their bread.

Against the other, the best help, that wee can yet boast of, is the Latine tongue,

tongue, and the other learned languages, which by reason of their generalitie, do somewhat restore us from the first confusion. But now, if there were fuch an univerfall character, to expresse things and notions, as might be legible to all people and countries, so that men of severall Nations might with the same ease, both write and read it; this invention would be a farre greater advantage in this particular, and mightily conduce to the spreading and promoting of all Arts and Sciences: Because that great part of our time, which is now required to the Learning of words, might then be employed in the study of things. Nay, the confusion at Babel might this way have been remedied, if every one could have expressed his own meaning by the same kinde of Character. But then perhaps the art of Letters was not invented.

That such a manner of writing is already used in some parts of the World, the Kingdomes of the high Levant, may evidently appeare from

divers

MESSENGER.

divers credible Relations. Trigaulnius affirms, that though those of China
and Japan doe as much differ in their
language, as the Hebrew and the Dutch,
yet either of them can, by this help of
a common character, as well understand the books and letters of the others, as if they were only their own.

And for some particulars, this generall kind of writing is already attained

amongst us also.

I Many Nations doe agree in the characters of the common numbers, describing them, either the Roman way by letters; as I. II. V. X. C. D. M. or else the Barbarian way by figures, as I. 2. 3. 10. &c. So likewise for that which we call Philosophicall number, which is any such measure, whereby we judge the differences betwixt severall substances, whether in weight, or length, or capacity: Each of these are express in severall languages by the same character. Thus 3 signifies a Scruple, 3 a Drachme, and so of the rest.

Histor.Si_ nens.lib.1. cap.5.

Bacon Augment. Sciet. lib. 6.c.1. Voff. Gr.li. 1.cap. 41. Herm. Hugo de orig. fcrib.c.4.

The Astronomers of severall Countries doe expresse both the heavenly Signes, & Planets, & Aspects by the same kind of notes. As, γ, 8, 11, 5, &c. h, 4, 6, 2, &c. d, *, Δ, □, θ. Which characters (as it is thought) were first invented by the ancient Astrologers for the secrecie of them, the better to conceale their sacred and mysterious profession from vulgar capacitie.

3 The Chymicall Treatises that are written in different languages do all of them agree in the same forme of writing their Minerals. Those that are attributed to any of the Planets are decyphered by the character of the Planet to which they belong. The rest by other particular signes, as \triangle for Salt Ammoniack, \mathcal{E} for Arsnick,&c.

4 Musicall notes in most Countries are the same. Nor is there any reason why there may not be such a generall kinde of writing invented for the expression of every thing else as well as these particulars.

In the contrivance of this there must

be

be as many severall characters as there are primitive words. To which purpose, the Hebren is the best patterne, because that language consists of fewest Radicalls.

Each of these primitives must have some particular marks to distinguish the cases, conjugations, or other necesfary variations of those derivatives that

depend upon it.

In the reading of fuch a writing, though men of severall Countries should each of them differ in their voices, and pronounce severall words, yet the sense would be still the same. As it is in the picture of a man, a horse, or tree, which to all Nations doe expresse the same conceit, though each of these creatures be styled by severall names, according to the difference of languages.

Suppose that Astronomicall signe & were to be pronounced, a Jew would callit Tw; A Grecian ravpor; An Italian Toro; A Frenchman Taureau; A Ger-

man Stier; An Englishman a Bull.

So likewise for that character, which in Tyro's notes, signifies the world, A Jew would reade it 32m; A Grecian would reade it 32m; A Grecian asome; An Italian, il mondo; A French man, le monde; A German, Belt. Though severall Nations may differ in the expression of things, yet they all agree in the same conceit of them.

The learning of this character will not be more difficult, than the learning of any one Language, because there needs not be more signes for the expression of things, than there is now for the expression of mords. Amongst those in China and Iapan, there is said to be about seven or eight thousand.

The perfecting of such an invention were the only way to unite the seventy two Languages of the first confusion: And therefore may very well describe their endeavours, who have both abilities and leasure for such kinde of Enquiries.

CHAP. 14.

Concerning the third way of secret discourfing, by signes and gestures, which may signific either

ex Scongruo. Splacito.

He third way of discoursing was by signes and gestures, which (as they are serviceable to this purpose) may be distinguished into such as are significant, either

I Excongruo.

2 Or, ex placito.

naturall resemblance and affinity, betwixt the action done, and the thing to be exprest. Of which kind, are all those outward gestures, whereby not only dumbe creatures, but men also doe expresse their inward passions, whether of joy, anger, feare, &c. For,

Sæpe tacens vocem verbaque vultus habet.
And

Prov.6.13

And the Wiseman notes it of the scorner, that hee winkerh with his eyes, hee speaketh with his feet, hee teacheth with his singers.

Of this kinde likewise are many religious actions, and circumstances of divine worship, not only amongst the ancient Heathen; but some that were particularly enjoyned the Priests and Levits of the old Law, and some too, that are now in use, in these times of the Gospell. For by such bodily gestures and signes, we may as well speak unto God, as unto men.

To this kind also are reducible, those actions of forme, that are required as necessary circumstances, in many civill affaires, and publike solemnities; which are usually such, as in themselves are apt to signific the thing for which they

are meant.

But now, fometimes the intended meaning of these gestures is conceased under a secret similitude. As it was in that act of Thrasybulus, who being consulted with, how to may ntain a tyran-

ny,

MESSENGER.

ny, that was newly usurped: Hee bid the messenger attend him in the sield, wherewith his wand he whipt off those higher eares of corne that did overtop the rest; intimating, that it consisted in cutting off the Peeres, and Nobilitie, who were likely to be most impatient of subjection. This I may call a Parabolical way of speaking by Gestures.

their signification from use and mutuall compact; which kind of speaking, as it refers to lascivious intimations, is largely handled by Ovid. de Arie A-mandi:

Verba superciliis sine voce loquentia dicam, Verba leges digitis, &c.

By the helpe of this it is common for men of severall Nations, who understand not one anothers Languages, to entertain a mutuall commerce and traffique. And 'tis a strange thing to behold, what Dialogues of gestures there

there will passe betwixt such as are borne both dease and dumb; who are able by this meanes alone, to answer and reply unto one another as directly, as if they had the benefit of speech. 'Tis a great part of the state and Majestie, belonging to the Turkish Emperor, that hee is attended by Mutes, with whom hee may discourse concerning any private businesse, which hee would not have others to understand.

It were a miserable thing, for a rational soule, to be imprisoned in such a body, as had no way at all to expresse its cogitations: which would be so, in all that are borne dease, if that which nature denied them, were not in this respect supplied, by a second nature, custome and use.

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But (by the way,) 'tis very observable which * Vallesius relates of Pet.

Pontius a friend of us, who by an unheard of art taught the deafe to speak.

Docens primum scribere, res ipsus digito indicando, qua charasteribus illis significa-

rentur; deinde ad motus linguæ, qui charaderibus responderent provocando. First learning them to write the name of any thing, hee should point to; and afterwards provoking them to fuch motions of the tongue as might answer the severall words. 'Tis probable, that this invention, well followed, might be of singular use, for those that stand in need of fuch helps. Though certainly that was far beyond it, (if true) which is related of an ancient Doctor, Gabriel Neale, that he could understand any word by the meere motion of the lips, without any utterance.

The particular wayes of discoursing by gestures, are not to be numbred, as being almost of infinite variety, according as the severall fancies of men shal impose significations, upon all such signes or actions, as are capable of suf-

ficient difference.

But some there are of more especiall note for their use and antiquity. Such is that upon the joynts and fingers of the hand, commonly stiled Arthrologia, or

* Lib.de
loquelâ per
geftum digitorum sive
de ind/gitatione.

* Hieroglyphic.lib.
37.c.I.&c
(alius Antiq.lett.l.
23.cap 12.
Satyr.10.

the venerable * Bede, * Pierius, and others. In whom you may see, how the Ancients were wont to expresse any number, by the severall postures of the hands and fingers; The numbers under a hundred, were denoted by the left hand, and those above, by the right hand. Hence Iuvenal, commending Pylias for his old age, sayes that hee reckoned his yeeres upon his right hand.

Fælix nimirum qui tot per sæcula vitam Distulit, at que suos jam dextra computat annos.

There are divers passages in the ancient Authors, both sacred and profane, which do evidently allude to this kind of reckoning.

Hence it is easie to conceive, how the letters, as well as the numbers, may be thus applyed to the severall parts of the hand, so that a man might with divers touches, make up any sense, that he hee hath occasion to discover unto a confederate.

This may be performed, either as the numbers are set downe, in the Authors before cited, or else by any other way of compact that may bee agreed

upon.

As for example. Let the tops of the fingers fignifie the five vowels; the middle parts, the five first consonants; the bottomes of them, the five next consonants; the spaces betwixt the fingers, the source next. One singer laid on the side of the hand may signifie T. Two singers V the consonant; Three W. The little singer crossed X. The wrist Y. The middle of the hand Z.

But because such various gesticulations, as are required to this, will not be without suspition, therefore it were a better way, to impose significations, upon such actions as are of more common unsuspected use: As scratching of the head, rubbing the severall parts of the face, winking of the eyes, twisting of the beard, &c. Any of which, or

all of them together, may be as well contrived to serve for this purpose, and with much more secrecie.

In which art, if our gaming Cheats, and popish Miracle-impostors, were but well versed, it might much advantage them, in their cousening trade of life.

CHAP. 15.

Concerning the swiftnesse of informations, either by qualities, as the impression on of imagination, and the sensitive species; or by spiritual substances, as Angels.

Aving already treated concerning the severall wayes of secrecy in discoursing, I shall in the next place enquire, how a man may with the greatest swiftnesse and speed, discover his intentions to one that is far distant from him.

There is nothing (wee fay) so swift

MESSENGER.

as thought, and yet the impression of these in another, might be as quick almost as the first act, if there were but such a great power in imagination, as some later * Philosophers have attributed to it.

Next to the acts of thought, the species of sight, doe seeme to be of the quickest motion. Wee see the light of the East will in a moment sill the Hemisphere, and the eye does presently discerne an object that is very remote. How we may by this means communicate our thoughts at great distances, I shall discourse afterwards.

The Substances that are most considerable for the swiftnesse of their motion, are either

Spirituall. Corporeall.

Amongst all created substances, there are not any of so swift a motion as Angels or Spirits. Because there is not either within their natures, any such indisposition and reluctancie, or without them in the medium, any such im-

Ficin. Theolog. Platon. lib.3.cap.1. Pomponatius de Incantat. Paracelsus.

Marfil.

Spirits.

pedi-

pediment as may, in the least manner retarde their courses. And therefore have the ancient Philosophers imployed these as the causes of that mad celerity, of the celestial Orbs; though according to their suppositions I thinke it would bee a hard match, if there were a race to be run, betwixt the Primum mobile, and an Angell. It being granted that neither of them could move in an instant, it would be but an even lay, which should prove the swifter.

From the fitnesse of spirits in this regard, to convey any message, are they in the learned Languages called Messengers.

Now if a man had but such familiaritie with one of these, as Socrates is said to have with his Tutelary Genius: If wee could send but one of them upon any errand, there would bee no quicker way then this for the dispatch of businesse at all distances.

That they have been often thus imployed, is affirmed by divers relations.

Angelus.

Plutarch.
Maximus
Tyrius.
Dissertat.

Vati.

MESSENGER.

by an apparition, of that victory which Paulus their Generall had obtained over King Perses in Macedon, the very same day wherein the battaile was fought; which was a long time before any other Messenger could arrive with the new.

And it is storied of many others, that whilst they have resided in remote Countries, they have known the death of their friends, even in the very houre of their departure : Either by bleeding, or by dreams, or some such way of intimation. Which, though it be commonly attributed to the operation of sympathy; yet it is more probably to be ascribed unto the Spirit or Genius. There being a more especiall acquaintance and commerce, betwixt the Tutelary Angels of particular friends, they are sometimes by them informed (though at great distances) of such remarkable accidents as befall one another.

But this way, there is little hopes to

Lactant.
Inst.lit.2.
ep.8.
Val. Max.
lib.1.c.8.
Florus lib.2.
cap.12.

advantage our enquiry, because it is not so easie to imploy a good Angell,

nor safe dealing with a bad one.

The Abbot Truhemiss, in his books, concerning the severall ways of secret and speedy discoursing, does pretend to handle the forms of conjuration, calling each kinde of character by the name of spirits, thereby to deterre the vulgar from searching into his Works. But under this pretence, hee is thought also to deliver some Diabolicall Magick. Especially in one place, where he speaks of the three Saturnine Angels, and certain Images, by which, in the space of twenty foure houres, aman may bee informed of newes from any part of the World. And this was the maine reason, why by Junius his advice, Frederick the second, Prince Palatine, did cause the originall Manuscript of that worke to bee burned. Which action is so much (though it should seem, unjustly) blamed by Selenus.

Voltens Gram.lib.x cap .41.

Polygraph. lib.3 . C. 16.

Cryptogra.

CHAP.

CHAP. 16.

Concerning the swiftnesse of conveyance by bodies, whether inanimate, as Arrows, Bullets; or animate, as Men, Beafts, Birds.

He bodies that are most eminent for their swiftnesse, may be distinguished into such as are

> Cinanimate. either-Lanimate.

These inanimate bodies, as Arrows, Inanimate Bullets, &c. have only a violent mo- bodies. tion, which cannot therefore be continued to so great a distance, as some occasions would require: But for so much space as they doe move, they are far swifter then the natural 1 motion of any animated body. How these have been contrived to the speedy conveyance of secret messages, hath been formerly

merly discoursed, in the fourth Chapter, which I now forbeare to repeat.

Those living bodies, that are most observable for their speed, and celerity in messages: are either Men, Beast, Birds. Though I doubt not, but that Fishes also may be serviceable for this purpose, especially the Dolphin, which is reported to be of the greatest swiftnesse; and most easily cicurated, or made tame.

Men.

Solinus. Polybift.

Ibid.

Amongst the ancient Footmen, there are some upon record for their incredible swiftnesse. Ladas is reported to be so quick in his running: Ve arenis pendentibus & cavo pulvere, nulla indicia relinqueret vestigiorum, that hee left no impression of his footsteps on the hollow fands. And it is related of a boy amongst the Romans, being but eight yeares old, that did run five and forty mile in an afternoone. Anistius and Philonides, two footmen unto Alexander the great, are said to have run 1:00 Radia in a day. Which relations will seeme lesse incredible, if wee consider the

the ancient Exercises and Games of this kind, together with the publicke same and rewards for those that were most eminent.

Amongst the variety of beasts, there are some of more especiall note for their strength and swiftnesse. Scaliger mentions a story, (though hee distrust the truth of it) of a certaine beast called Ellend, two of which being joyned in a little cart, are said to passe three hundred leagues a day upon the ice.

In former ages, and in other Countries, the Dromedary, and Camell, and Mule were of more common use: But in these times and places, the horse (for the most part) serves instead of them all; by the helpe of which, wee have our swiftest meanes of ordinary conveyance. The custome of riding post, by renewing both horse and man at set stages, is of ancient invention. Herodous relates it to be used by Xerxes in the Gracian war, and that it was by the Persians called Arrapis. The particulars that concerne these kind of conveyan-

Swiftnesse of Beasts.

Exer.105.

Lib. 8 98.

Nat. Hift. L8.cap.42. ces amongst the Ancients, are largely handled by Hermannus Hugo lib. de origine seribendi, cap. 14.

Plinytels us of certain Mares in Lufitania, which doe conceive meerly by the Westwind; that alone (without the copulation of any male) serving to actuate their heat, and to generate their young. Which are likewise mentioned by Virgil.

Georg.3.

Exceptant g, auras leves, & sæpe sine ullis Conjugius, vemo gravidæ, &c.

Mee thinkes, these children of the wind, should for their seetnesse, make excellent post-horses, and much conduce to the speedy conveyance of any message.

The Paracelsians talke, of naturall means to extract the metall and spirit out of one horse, and insuse it into another, of enabling them to carry a man safely and swiftly, through enemies, precipices, or other dangerous place. And such Horses (say they) were used

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by the Wisemen of the East at our Saviours Nativity: for they had not otherwise beene able to have kept pace
with a star, or to have passed so great a
journey as it was to Jerusalem, which is
thought to be sive or six hundred miles
at the least, from the places of their
habitation. If this conceit were feasible, it would much promote the speed
of conveyances, but I thinke it may
justly bee referred amongst the other
dreames of the Melancholicke Chymicks.

Amongst all animate bodies there is not any, that have naturally so swift a motion as birds. Which if a man could well imploy in the dispatch of any errand, there would be but little fear that such messengers should be either intercepted, or corrupted.

That this hath been attempted, and effected by many of the Ancients, is affirmed by divers relations. Pliny tels us of Volaterranus, that hee discovered a conquest hee had gotten, unso the City of Rome, by sending out swallows, which

The swiftnesse of Birds.

Nat.Hist. Lú.10.c.24

which should fly thither, being anointed over with the colour of victory. And of another, who sending one of these Birds into a besieged City, (whence shee was before taken from her young ones) and tying a string unto her with certaine knots upon it, did thereby shew, after what number of dayes their aids would come, at which time they should make an irruption upon the enemy.

Cap.37.

And elswhere in the same booke, he relates, how Hirrius the Consul, and Brueus, who was besieged in Mutina, did this way mayntaine mutuall intelligence, by tying their Letters unto such Pigeons', as were taught before hand to fly from the tents to the Citie, and from thence to the Tents again.

Histor Animalium 1.6 How Theurosthenes did by this means send the news of his victory at Olympia, to his Father at Ægina, is related by Ælian.

Anacreon has an Ode, upon such a Pigeon, which hee himselfe had often used

MESSENGER.

used as a Messenger, wherein the Bird is fained to say,

Emgodes Rous (m.

Uuto this invention also, Juvenal is thought to allude, where he sayes,

Satyr.4.
juxta finem.

----tanquam è diversis partibus orbis, Anxia præcipit i venisset epistola pennà.

Lyphus relates out of Varro, that it was usuall for the Roman Magistrates, when they went unto the Theater, or other such publike meetings, whence they could not returne at pleasure, to carry such a Pigeon with them: that if any unexpected businesse should happen, they might thereby give warning to their friends, or samilies at home.

By which relations, you may see, how commonly this invention was practised amongst the Ancients. Nor hath it beene lesse used in these ter

Saturn. Scrm.lib,2 cap.6

K

times,

Not.in Anea.Poliorcet,cap.31.

Comment in Veget.L3.

See Numt. Imanimat. concer ning Amiraldus. Porta de furt.lit.li.2 cap.21. concerning Marches. Herm- Hugo de Orig. Cribendi copiss. Thuanus

times, especially in those Countries, where by reason of continuall wars, and dissentions, there have beene more particular and urgent necessity for such kind of conveyances. Nunc vulgatissima resest, columbas habere, ad ejusmodi jussa paratus, saith Casaubon. Harum opere, nostrates boc bello civili, frequenter adjuti sunt, saith Godesc. Stemechius.

There are divers other stories to this purpose, but by these you may sufficiently discern the common practices of this kinde. As it is usuall to bring up birds of prey, as Hawks, Cormorants, &c. to an obedience of their keepers: So likewise have some attempted it in these other Birds, teaching them the art of carrying messages. There is a smaller fort of Pigeons, of a light body, and swift slight, which is usually made choice of for such particulars; And therefore the kinde of them is commonly called by the name of Carriers.

CHAP.

CHAP. 17.

Of secret and swift informations by the species of sound.

Aving in the former Chapters treated severally concerning the divers wayes of secrecy and switnesse in discourse; It remaynes that I now enquire (according to the method proposed) how both these may be joyned together in the conveyance of any message. The resolution of which, so far as it concernes the particulars already specified, were but needlesse to repeat.

That, which does more immediatly belong to the present Quare, and was the mayne occasion of this discourse, does refer to other ways of intimation, besides these in ordinary use, of speaking, or writing, or gestures. For in the generall wee must note: That whatever is capable of a competent difference, perceptible to any sense, may be a sufficient

ficient means, whereby to expresse the cogitations. It is more convenient indeed, that these differences should be of as great varietie, as the letters of the Alphabet; but it is sufficient if they bee but twofold, because two alone, may with fomewhat more labour and time, bee well enough contrived to expresse all the rest. Thus any two letters or numbers, suppose A. B. being transpofed through five places, will yield thirty two differences, & fo consequently, will superaboundantly serve for the foure and twenty Letters, as was before more largely explained in the ninth chapter.

Now the sensitive species, whereby fuch informations must be conveyed, are either the species of found, or the species of sight. The eare and the eye, being the only sences, that are of quick perception, when their objects are re-

mote.

tari, lib.3.

Vegetius distinguisherh all significatoric signes into these three forts.

I Vo-

- 1 Vocalia. By articulate sounds.
- 2 Semivocalea. By inarticulate sounds.
 - 3 Muta. By the species of sight.

The two last of these are chiefly pertinent to the present enquiry. Concerning which, in the generall it may be concluded, that any sound, whether of Trumpets, Bels, Cannons, Drums, &c. or any object of sight, whether slame, smoake, &c. which is capable of a double difference, may be a sufficient meanes, whereby to communicate the thoughts.

The particular application of these, to some experiments, I shall treat more distinctly in the remaynder of this dis-

courfe.

First, concerning the secrecy and swiftnesse of any message by the species of sound. Though these audible species be much slower then those of sight; yet are they far swifter then the natural motion of any corporeal messager. The chiefe use of these is for such

Secretand speedy information by the species of sound.

fuch as are within some competent neernes, as perhaps a mile of. But they may also by frequent multiplications, be continued to a far greater distance.

Proam.in lib Plutar. de defectu oraçulorum.

There is a relation in Joach. Camerarius, of some that have heard their friends speaking to them distinctly, when they have been many miles asunder. Habui notes homines, neque leves, of non indottes, qui affirmabant, se audisse secum colloquentes diserte, eos quos sunc multorum millium passum abe se certo servent. But this hee justly refers to Diabolicall Magick, and the illusion of spirits.

There are other naturall experiments in this kind, of more especiall note for their antiquity. Such was that of King Xerxes, related by Cleomenes, as he is cited by Sardus. Cleomedes in lebro de circulis coelestibus scribit Xerxem toto itimere a Perside in Græciam stationes statuisse, es in its homines it a prope, ut vo-cem alterius alter exaudires; quo modo quadraginta horarum spatio, ex Græcia in Persidem res nunciari poterat. But this

De rerum Inventor. Lib.2.

in-

invention, besides the great trouble and uncertainty of it, is also too grosse for imitation, savouring somewhat of the rudenes of those former and more

barbarous ages.

Much beyond it was that experiment of the Romans, in the contrivance of the Pills wall, related by our learned Gambden, this wall was built by Severus in the North part of England, above a hundred miles long. The towers of it were about a mile distant from one another. Betwixt each of these towers there passed certaine hollow pipes or trunks in the curtaines of the wall, through which the Defendants could presently informe one another of any thing that was necessary. As concerning that place wherein the enemy was most likely to assault them; &c.

Since the wall is ruined, and this means of swift advertisement taken away, there are many inhabitants thereabouts, which hold their Land by a tenure in Cornege (as the Lawyers speak) being bound by blowing of a Horne, K 4

Britan.de Vallo five the Picts Wall.p.654 Boter. Geog. 1.2. 0 lib. 4 where hee mentions also another wall of 8000 furlongs. in China.

Horne to discover the irruption of the enemy.

Fabul.9

There is another experiment to this purpose mentioned by Walchius, who thinks it possible so to contrive a trunk or hollow pipe, that it shall preserve the voice entirely for certain houres or days; so that a man may send his words to a friend instead of his writing. There being always a certaine space of intermission; for the passage of the voice, betwixt its going into these cavities, and its comming out; hee conceives, that if both ends were seasonably stopped, whilst the sound was in the midst, it would continue there till it had some vent. Huic tubo verba nostra insusurremus, G' cum probe munitur tabellario committamus, &c. When the friend to whom it is sent, shall receive and open it, the words shall come out distinctly, and in the same order wherein they were spoken. From such a contrivance as this, (saith the same Authour) did Alberius Magnus make his Image, and Frier Bacon, his brazen Head, to utter certaine words.

words. Which conceit (if it have any truth) may serve somewhat to extenuate the grosse absurdity of that popish relique concerning Josephs [Hah] or the noise that hee made (as other Carpenters use) in setching of a blow: which is said, to be preserved, yet in a glasse amongst other ancient Reliques.

But against these fancies it is considerable, that the species of sound are multiplyed in the ayre, by a kinde of continuation and efflux from their first originall, as the species of light are from any luminous body; either of which being once separated from their causes doe presently vanish and die. Now as it would be a mad thing for a man to endeavour, to catch the Sunbeams, or inclose the light; upon the same grounds likewise must it needs be absurd, for any one to attempt the shutting in of articulate founds: Since both of them equally have the same intrinsicall and inseparable dependance upon their efficient causes.

True, indeed, the species of sound may

may feeme to have some kinde of selfe continuance in the ayre, as in Ecchoes, but so likewise is it in a proportion with those of sight, as in the quick turning round of a fire-sticke, which will make the appearance of a fiery circle: And though the first kinde of these be more lasting then the other, by reason their natural motion is not so quick, yet neither of them are of such duration as may be sufficient for the present enquiry.

None of all these inventions already specified, doe sufficiently performe the businesse, that is here enquired after: Nor are they, either so generally or safely, appliable for all places and exigences.

The discovery that is here promised, may be further serviceable for such cases as these.

Suppose a friend were perfidiously clapped up in some close Dungeon, and that wee did not know exactly where, but could only guesse at the place, within the latitude of halfe a mile or

fome-

fomewhat more: A man might very distinctly by these other inventions discourse unto him. Or suppose a Citie were straitly besieged, and there were either within it or without it, such a confederate, with whom wee should necessarily confer about some designe: We may by these means safely discover to him our intentions. By which you may guesse, that the Messenger which is here imployed, is of so strange a nature, as not to be barred out with walls, or deterred by enemies.

To the performance of this, it is requisite, that there be two Bels of different notes, or some such other audible and loude sounds, which we may command at pleasure; as Muskets, Canons, Horns, Drums, &c. By the various sounding of these (according to the former Table) a man may easily expresse any letter, and so consequently

any lenfe.

These Tables, I shall again repeat in this place. That of two letters may be contrived thus. Cap.g.

Α.

В. С. D. E. aaaaa. aaaab. aaaba. aaabb. aabaa. G. H. K. aabab. aabba. aabbb. abaaa. abaab. M. N. O. ababa. ababb. abbaa. abbab. abbba. R. S.≈ abbbb.baaaa. baaab. baaba. baabb. W. X. Y. babaa.babab.babba. babbb.

Suppose the word Victuals, were this this way to be exprest. Let the bigger sound be represented by A. and the lesser by B. according to which, the word may be thus made up by five of these sounds for each letter.

V. I. C. T. V. baabb. abaaa. aaaba. baabb. baabb. A. L. S. aaaaa. ababa. baaab.

That is, the lesser note sounded once, and then the bigger twice, and then again the lesser twice, as (baabb) will

figni_

signifie the letter (Y). So, the bigger once, and then the lesser once, and after that the bigger thrice together, as (abaaa) will represent the letter (I:) and so of the rest.

If the sounds be capable of a triple difference, then each letter may be expressed by a threefold sound, as may appeare by this other Alphabet.

A. B. C. D. E. F. G. H. aaa. aab. aac. baa. bab.bba. bbb. bbc. I. K. L. M. N. O. P. Q. caa. cba. cbb. cbc. cca. ccb. ccc. aba.

R. S. T. V. W. X. Y. Z. abb. abc. aca. acb. acc. bca. bcb.bcc.

V. I. C. T. V. A. L. S. acb. caa. acb. aca. cbb.abc.

If these sounds do contain a quintuple difference, then may every letter be signified by two sounds only, (which will much conduce to the speed and dispatch of such a message.) As you may see in this other Table.

An

A. B. C. D. E. F. G. H. I. K. L. M. aa. ab.ac. ad. ae.ba.bb.bc.bd.be.ca.cb. N. O. P. 2. R. S. T. V. W. X. Y. Z. cc.cd.ce.da.db.dc.dd.de. ea.eb.ec.ed.

V. I. C. T. V. A. L. S. de.bd.ac.dd.de. aa.ca.dc.

De furt.lit. lib. I.cap. 6. Tis related by Porta, that when the Citizens in the siege of Navarre were reduced to such great extremities that they were ready to yield; they did discover to their friends the greatnesse, and kind of their wants, by discharging divers Canons and Ordinances in the night time, according to a certaine order before agreed upon: and by this means did obtain such sitting supplyes as preserved the City.

CHAP.

CHAP. 18.

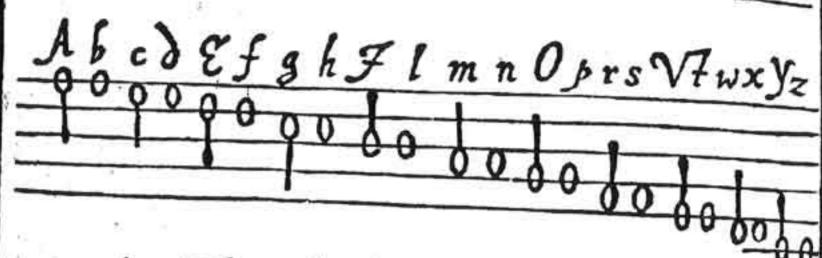
Concerning a language, that may confift only of Tunes and Musicall Notes, without any articulate sound.

F the Musicall Instrument that is used to this purpose, be able to expresse the ordinary notes, not only according to their different Tones, but
their Times also; then may each Letter
of the Alphabet be rendred by a single
sound.

Whence it will follow that a man may frame a Language, confishing only of Tunes and such inarticulate sounds, as no Letters can expresse. Which kind of speech is fancied to bee usuall amongst the Lunary Inhabitants; who (as * Domingo Gonsales hath discovered) have contrived the Letters of the Alphabet upon the Notes after some such order as this:

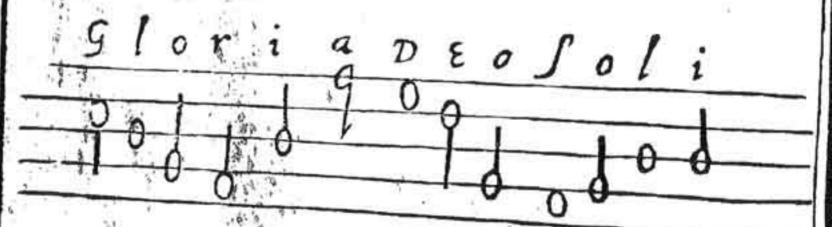
* Or the man in the Moon, written by the fame Authour of Nuntius Inanimat.

Where



Where the five Vowels are reprefented by the Minnums on each of the five lines, being most of them placed according to their right order and confequence: only the letters K. and Q. are left out, because they may be otherwise expressed.

See Dom. Gonfal. According to this Alphabet of Notes, these words, Gloria Deo soli, must be thus contrived.



By this you may eafily discern how two Musicians may discourse with one another, by playing upon their Instru-

ments

ments of Musique, as well as by talking with their instruments of speech. And (which is a singular curiosity) how the words of a Song may be contrived in the tune of it.

I suppose that these letters and notes might be disposed to answer one another, with better advantage then here they are expressed. And this perhaps, would bee easie enough for those that are thoroughly versed in the grounds of Musique, unto whose further enquiry, I doe here only propose this invention.

But now if these inarticulate sounds be contrived for the expression, not of words and leners, but of things and notions, (as was before explained, concerning the universall Character) then might there bee such a generall Language, as should be equally speakable, by all people and Nations; and so we might be restored from the second generall curse, which is yet manifested, not only in the confusion of writing, but also of speech.

L

The

The unerance of these Musicall tunes may serve for the universall language, and the writing of them for the universall Character. As all Nations do agree in the same conceit of things, so likewise in the same conceit of Harmonies.

This Curiofity (for ought I know) has not yet beene mentioned by any Author, but it may be (if well confidered) of such excellent use, as to deserve a more full and particular enlargement, in a Treatise by it selfe.

CHAP.

CHAP. 19.

Of those common relations, that concerne secret and swift informations by the species of fight, which are either Fabulous, or Magicall.

He usuall relations, that concerne fecret and fwift conveyances by the species of sight, may be distinguished into such as are, either

I Fabulous.

2 Magicall.

3 Naturall and true.

First of those that are fabulous: In which kind, that of the loadstone is most remarkable, as it is maintained by * Famsanus Strada in his imitation of Lucretius his stile, and divers others. The manner that is usually prescribed for the performance of it, is thus. Let there be two needles provided, of an equall length and bignesse, being both of them touched with the same loadstone. Let the letters of the Alphabet be placed in the circles on which they L₂

I Of those fabulous relations to this purpose. Lib. 2. proluf. 6.

are

are moved, as the points of the compasse under the needle of the Mariners Chart. Let the friend that is to travaile take one of them with him, first agreeing upon the dayes and houres, wherein they should conferre together: At which times, if one of them move the needle of his instrument to any letter of the Alphabet, the other needle by a Sympathie, will move unto the same letter in the other instrument, though they be never so farre distant. And thus by severall motions of the needle to the letters, they may easily make up any words or sense which they have a mind to expresse.

Outinamhec ratio scribendi prodeat usu; Cautior & citior properaret epistola, mullas Latronü verita insidias, sluvios q; morantes, Ipse snis princeps manibus sibi consiceret

rem, Gc.

Saith Strada. But this invention is altogether imaginary, having no foundation in any reall experiment. You may see it frequently consuted, in those that treat concerning magneticall

call vertues. Non solum exibilandi sunt sed etiam male mulciandi Philosophica serula, fabularum isti procusores, qui suis portentis deterrent homines apraclarissimo causarum studio, saith Cabaus, to this purpose.

Philosop. Magnet. l.b. 4.c. 10.

The first occasion of these relations, was the proofe of that strange immateriall powers of the loadstone, whereby it did work through thick and solid bodies, as a table, or wall, or the like: as also of that directive vertue, whereby it alwayes tends to the poles; From whence others have conjectured, that it might be serviceable also, for such a businesse, at so great a distance.

But against this, it is considerable,

That every naturall agent, is supposed to have some certaine sphere, which determines its activity.

That magneticall operations doe not arise (as some fondly conceive) from a Sympatheticall conformation of natures, which is the same at all distances; but from such a diffusion of these magneticall qualities through

L 3

the

the medium, that they may be continued from the agent to the patient. And so these naturall powers, will not be of so great an extent, as they are sup-

posed in this experiment.

The utmost distance, at which wee may discourse with another, by these magneticall vertues, is two or three foot or there abouts; And this wee may doe, though it be through a wall of that thicknesse. Fieri enim posse me docuit experientia, ut ope Magnetis, & instrumenti ad id aprati, amicus cum amico, in cubiculo proximo, trans crassim murum (puta bipedalem) colloquatur, animi sui sententiam impertiat, & ad quesita respondeat, (faith a late Author.) But in this expeliment, it is not only the secondary vertue of the needles that can be thus effectuall (as is supposed in the former invention) but there must be the help also of the loadstone it selfe.

As for the reason why these magneticall powers are able to worke through solid bodies; 'Tis considerable, that any quality may be diffused through/

S. Ward. magnetis Reduct cap. See Cabeus Phil. Magn. 46.4.0.11.

through such a substance, as hath no naturall repugnancie unto it. Wee see the light does passe as wel through hot bodies as cold, through solid as suid, &c. only Opacitie keeps it out; because that quality alone is contrary to its nature. So likewise is it with magneticall vertues, which doe equally spread themselves, through all kind of bodies, whether rare or dense, diaphanous or opacous, there being no quality contrary to this; because it is that generall endowment of the whole globe, that universall quality to which all other particulars are naturally subservient.

The second sort of relations to this purpose, are such as referre to diabolical Magick; Of which kind is that invention thought to be, which is commonly ascribed to Pythagoras; of whom it is reported, that hee could write any thing in the body of the Moone, so as it might be legible to another at a great distance. Agrippa affirmes this to be naturally possible, and the way of performing it, not unknown to him-

2 Magi-

Occult. Phi. 1 f. lib. 1. cap. 6.

Optic.lib.3.
prop. 36.
Speculorum
persuasio
buc pervaGeserc.

Ielte, with some others in his time. And Fridericus Risner seemes to beleeve it. For speaking of the strange experiments to be wrought by some glasses, he adds. Denique certo artisicio, depistas imagines, aut scriptas literas, noste serena, plena luna sic opponi possunt, ut radiis lunam irradiantibus, ideoq; restexis, videas Glegas, qua Constantinopoli Lutetiam tibi nuncientur.

There is an experiment in Opticks to represent any writing by the funbeams, upon a wall or front of a house: For which purpose, the letters must be first described, with wax or some other opacous colour, upon the furface of the glasse, in an inverted forme; which glasse, afterwards resecting the light upon any wall in the shade, will discover these letters in their right forme and order. Unto some such invention, I did first (before I had well considered these particulars) attribute the performance of those strange promises in Numius inanimatus. But upon better thoughts, it will be found, that the

World in the Moon. the species of reflexion, in this experiment, are so weake, that unlesse the glasse and the letters be very bigge, and the wall somwhat neere, there will be no distinct appearance of the writing. And therefore this way, there can be no thoughts of contriving any restected species, that shall be visible at so great a distance as the Moone. Nor is there any other naturall means conceiveable, by which so strange an effect may be performed, which is the reason that it is so frequently attributed to diabolicall Magick, by almost all the Writers that have occasion to treat of it.

But Agrippa in another place speaking concerning this invention, assirmes that it was performed thus. Pythagoras did first describe with blood any letters which hee thought sit, in some great glasse, and then opposing the glasse against the full Moone, the letters would appeare thorough it, as if they were writ in the circumference of her body. Qua collibuisset sanguine perforings

Agrippa de Vanit. Scient.cap. 48. orbem obverso, stanti à tergo, res exaratas in disco luna commonstravit. In which passage he seemes to intimate, that this writing in the Moone, could not be visible at any great distance (as it is related in common tradition,) but that it did appeare to such onely, betwixt whose eyes and the Moone, this glasse might be interposed. And according to this the wonder of the relation ceases, nor may it truly be referred to Diabolicall Magick.

Joach. Camerar. Procem in lit. Pluterc.de defect.Orac. More properly reducible to this kind, are those inchaunted glasses, mentioned in divers Authors: In which some Magitians are said to containe such familiar spirits, as doe informe them of any businesse they shall enquire after. I have heard a great pretender to the knowledge of all secret Arts, considently affirme, that he himselse was able at that time, or any other, to shew me in a glasse what was done in any part of the world, what ships were sailing in the Mediterranean, who

who were walking in any street of any Citie in Spaine, or the like. And this hee did averre, with all the laboured expressions of a strong considence. The man, for his condition, was an Italian Doctor of Physick: for his parts, hee was knowne to be of extraordinary skill, in the abstruser Arts, but not altogether free from the suspicion of this unlawfull Magick.

CHAP.

CHAP. 20.

Of informations by significatory fires and smokes. Their antiquity. The true manner of using them to this purpose. That these were meant in Nuntius inanimatus.

The experiments of this kind that are true, & upon naturall grounds, have beene made either by fire in the night, or smoke and such other signes visible at a distance in the day time.

These informations by significatory fires, have beene of ancient use. The first invention of them is commonly ascribed to Sinon in the Trojan warres. Specularem significationem Trojano bello Sinon invenit (saith Pliny.) This was the signe upon which he agreed to unlock the wooden horse.

Nat.Hist. 46.7.0.56.

V voil

Bibliothec.

Exculerat.

But Diodorus Siculus affirmes them to be practifed by Medea in her conspiracie with Jason. And they are frequently mentioned

mentioned in other ancient Historians. * Herodotus speaks of them in the Grecian warre against Xerxes. And * Thucydides testifies of them in the onsets that were made by the Peloponnesians against Salamis, and in the siege of Corcyra. Appian speaking of Scipio at Numania, how he divided his campe into divers companies, faies that he assigned each of them to severall tribunes, with this charge. Si impeterentur ab hoste, de die, * panno rubro in basta sublato significarent, de notte, igne. If the enemie did charge any of them, they should signifie it to the others, in the day time by holding up a red cloth, in the night by fires. Vegetius affirmes it to be usuall, when the Army was divided, to informe one another, in the day by smoke, in the night by fires. These fignificatory fires were by the Grecians called wixen, (faith Suidus) and fomtimes musta. The use of them was chiefly for the answer of some particular Quare, that was before agreed upon: As concerning the comming of aydes

* Polymn. lib.7.cap.

* Hift. 46.1

Item lib. 3.

30 Curlius of Alex.M. lib. 5.

*To this purpole the flags of truce or defiance.

De remilitær.lib.3. cap, 5.

Lyps. de milit.Roman. lib.5.Dialog. 9.

AnensPoliorcci.e.31. Scholin lib.

Wecker de
Secretis.lib.
14.cap.1.
Port. de
furt.lit.lib.
1.cap.10.
Cardan de
Variet.Rerum.lib.12.
cap.61.
*Histor.lib.
10. juxta
finem.
By ten

torches.

or enemies: if the enemies were comming, they were wont to shake these torches; if the aydes, they held them still (saith the Scholiast upon Thucy-dides.)

But they have by more exact inventions, beene enlarged to a greater latitude of fignification. So that now, any thing which wee have occasion to discover, may be expressed by them.

The wayes by which they may be contrived to this purpose, are divers. I shall specifie only the chiefe of them.

That which in ancient times was used by the Grecians, and is particularly treated of in * Polybius, adviseth thus.

Let the letters be divided into five tablets or columnes.

II	III	IV	\mathbf{v}
f	1	191	120
8	AB	9	×
b	78	5	7
i	0	2	Z
k	P	26	
	II g h i	f	f q

Let there be provided ten Torches; five being placed on the right hand, and five on the left. Let so many torches be lifted up on the right hand as may shew the number of the table, and so many on the left, as may shew the number of that letter in it, which you would expresse. As in this sollowing example, wherein the severall numbers, both at the right and left hand, doe significe the word HASTEN.

The right hand.

The left hand.

II	H	3
I	A	ī
IV	5	3
IV	T	_4
	E	5
III	N	3

That is, two lights being lifted upon the right hand, shew the second columne; and at the same time three torches appearing on the left hand, de-

notes

By 3 Torches. Lib. de E xperientia. notes the third letter in that columne, which is H. Thus a single torch being discovered on both sides, doth signific the first letter of the first columne, which is A, and so of the rest.

There is another way mentioned by Joachimus Fortius, unto the performance of which, there are onely three lights required. One torch being shewed alone, shall signific the eight first letters. A.B.C.D.E.F.G.H. Two together, the eight next, I.K.L.M.N. O.P.Q. And all three the rest. R.S.T. V.W.X.Y.Z.

One light being discovered once, signifies A. If twice, B. Two lights being shewed once, doe denote the letter I; if twice, K,&c.

According to this way, if I would expresse the word Famine: the torches must be contrived. One light must be listed up six times for the letter F. One light once for A. Two lights source times for M. Two lights once for I. Two lights five times for N.

But

But here it will be requisite, that there be some intermission, betwist the expression of severall letters, because otherwise there must needs be a great confusion, amongst those that belong to the same number of Torches. In which respect, this way is much more tedious, and inconvenient, then the former invention out of Polybius.

It is easie to conceive, how by the Alphabet consisting of two letters transposed through five places, such a manner of discoursing may be otherwise contrived, only by two torches. But then there must be five shewes, to expresse every letter.

There is another way of speaking, by the differences of motion in two lights; which for its quicknesse and speed is much to be preferred before any of the rest. The manner of it is thus. Provide two torches on long poles: Let them be placed so farre from one another, that they may seeme

By two

shout foure cubits distance. By the diverse elevations of depressions of these, enclining of them to the right hand, or to the left, severally or both together, it is easie to expresse all the Alphabet.

One light alone being discovered, must stand for A. lifted up for E. depressed for I. enclined to the right hand for O. unto the left hand for V.

Two lights elevated, for B: depressed for C: enclined to the right hand for D: to the less thand for P.

Two lights being still discovered, and the torch at the right hand being lifted up, shall signifie G. Being depressed, H. Inclined to the right hand, K. To the left hand, L.

The torch at the left hand, being elevated shall stand for M. Depressed, for N. Inclined to the right hand for P.

To

To the left hand for 2.

The torch at the right hand being moved towards the left hand, and that at the left hand, being at the same time moved towards the right hand, shall signifie, R. The right hand torch being enclined to the left hand, and the other at the same time being elevated signifies, s: being depressed, T. The left hand torch being enclined to the right hand, and the other at the same time being elevated, signifies w: being depressed, X.

The right hand Torch being enclined to the right hand, and the other at the same time being elevated, may stand for r; being depressed for Z.

When any thing is thus to be expressed; the two torches, being discovered, must remaine without any motion, so long, till the confederate shall by other lights shew some figne, that hee is ready to take notice. After M₂

every

every one of these particular motions, the torches must be carefully hidden and obscured, that so the severall letters expressed by them, may be the better distinguished.

The day-time informations by smoke, cannot so conveniently be ordered according to this later contrivance. And therefore must be mannaged by some of those other wayes, that were specified before. To which purpose there must be some tunnells provided for the orderly inclosing and conveying up the smoke. The other particulars concerning this, are in themselves easie enough to bee apprehended.

How these significatory signes will be visible at a great distance; How by multiplication of them in severall pla-See Barcla. ces, they may be contrived for many scores of miles; will easily bee discerned from the fituation and use of Beacons: by which the intimations

of publike danger and preparations, have been oftentimes suddenly spread, over this whole Iland.

This may further be advantaged, by the use of Galilaus his perspective.

'Tis storied of the Inhabitants in China, that when any Merchants doe happen upon the shores of that Kingdome, they are presently examined, whence they come, what commodities they bring, and of what number they are; Which being knowne, the watch (set for that purpose) doe presently informe the King of their anfwers, by smoke in the day, and fires in the night: Who by the same meanes do's as speedily returne them his pleasure, whether they shall be admitted or kept out. And so that is casily dispatched in some few houres, which could not be performed the ordinary way, without the trouble of many dayes.

Busbequius. Epift. Turc. ep 4.

M 3

The

Polyb.lib.

The practife of all these secret and swift Messages, may perhaps seeme very dissicult at the sirst: But so do's also the Art of writing and reading to an unlettered man. Custome and experience will make the one as facill and ready as the other.

That these wayes of information already explained, whether by the species of sound or sight, are the same with those intimated in Nuntius inant-mans, may be clearly evident, to any one who do's but thoroughly peruse that discourse, and compare it with divers other the like passages, of the same Author, in his Domingo Gonsales.

Nunc Inane.pag.16 For the species of sound, his words are these. Aurious with percipi nife per somm, neminem sugit. Erit igitur necesse ut is, cui aliquid auditu mediante nunciatum suerit, sonos audiat, eosque distinguibiles pro numero audiendorum; que cum sint infinita, infinita etiam sit oportet, sonorum edendorum varietas.

vel genere, vel tempore, modo esam or numero. Which passage, together with that other invention in Domingo Gonsales, concerning the Language of the Lunary Inhabitants, before explained in the eighteenth Chapter: I say, both these, being compared with the discoveries and experiments of the same kind, that are here discoursed of, may plainly manifest, that they are both performed by the same means.

2 For the Species of fight, his words are thefe. Si oculis amici absenis aliquid cupis representare, idque citius quam corpus aliquod sublunare ad locum tam longo intervallo difiunctum possit perferri; oportet ut idea, sive forma visibiles, augeantur quantitate, multiplicentur numero, & pro rerum significandarum varietate varientur, vel qualitate, vel quantitate, vel fitt, velordine. Which passage being compared with that other way of compact, betwixt Gonfales and his mentioned in the other man Diego, Dif-M

Nunc.Inanim.p.16.

Man in the Moon. Pag 28.

Discourse; It may evidently appeare, that the wayes of intimation, which were there meant, are performed after the same manner, according to which they are here discoursed of.

He does indeed mention out of Bufbequins, the practice of these informations amongst the inhabitants of Chima. And thinks that they were used too by the Romans, but withall he wonders, how that now amongst us, they should be altogether forgotten, and the restoring of them to these places and times, seems to be his chiefe ayme, in the promises of that discourse.

The particular example which hee mentions, is this. Suppose that one at London, would send a message to Briston, Wells, Exeter, or though it were any remoter place: Neque enim longin-quitatem via multum moror, si detur facultas sternendi, & permeabilem efficiendi. That is, the greatnesse of distance can be no impediment, if the space betwixt be

and Beacon Hils, as may serve for these kinde of Discoveries. Suppose (I say) this Messenger should set forth from London, in the very point of noon, hee would notwithstanding, arrive at Briston before twelve of the clock that day. That is, a Message may by these means be conveyed so great a distance, in sewer minutes then those which make the difference betwixt the two Meridians of those places.

If according to this, we should interpret, that passage out of Trithemiss, concerning the three Sausrnine Angels, that in twenty source houres can convey news from any part of the World; that Author might then, in one respect be freed from the aspersion of Diabolicall Magick, which for this very reason hath heretofore been imputed to him. But this by the way.

It may be, the resolution of those great promises in Nuncius Inanimaius, to such

See before

fuch easie causes as they are here afcribed unto, will not be answerable to mens expectation. every one will bee apt to mistrust som greater-matter then is here exprest: But 'tis thus also, in every other the like particular, for ignorance is the mother of wonder, and wonder does usually create unto it self many wilde imaginations, which is the reason why mens fancies are so prone to atribute all unusual and unknowne events, unto stranger causes shen either nature or art hath designed for them.

Conclusion.

Horat lib. I Od. 10. Ovid Metam lib. 11 Homer in Hymnis.

The Poets have fained Mercury to be the chiefe Patron of Thieves and trechery,

Nat. Comes Mytholog. lib. 5.cap 5. To which purpose they relate that hee filched from Venus her girdle, as shee embraced him in congratulation of a victory, that hee robbed Jupiter of his Scepter, and would have stolne his Thun-

Thunderbolt too, but that he feared to burne his fingers. And the Astrologers observe, that those who are born under this Planet, are naturally addicted to the ft and cheating.

If it be feared that this Discourse may unhappily advantage others, in fuch unlawfull courses: Tis considerable, that it does not only teach how to deceive, but consequently also how to discover Delusions. And then besides, the chiefe experiments are of fuch nature, that they cannot be frequently practifed, without just cause of suspition, when as it is in the Magistrates power to prevent them. However, it will not follow, that every thing must be supprest, which may bee abused. There is nothing hath more occasioned troubles and contention, then the art of writing, which is the reason why the Inventor of it, is fabled to have sowne Serpents teeth; And yet it was but a barbarous act of Thamus, the Egyptian King, therefore to forbid the learning

Celi. Rho-3
antiq.Lect.
lib.22.cap.

14

James go

of Letters. Wee may as well cut out our tongues, because that member is a world of wickednesse. If all those use-full inventions that are lyable to abuse, should therefore be conceased, there is not any Art or Science, which might be lawfully profest.

FINIS.