PHILOSOPHICAL TRANSACTIONS.

November 15. 1669.

The Contents.

A Description

of Dr. Christopher Wren's *Engin, designed for grinding Hyperbolical Glasses; as it was in a manner promised* Numb. 48. *p.* 962.

We shall give it in the Author's owne words, as followeth.

SInt tria Corpora terendo idonea, P. Q. R; quorum P. & Q. sint æqualia & Columnari forma, R vero Corpus Lenti-formе. P. rotetur circa axin A B; Q, circa C D; & R, circa E G.

Sint autem A B & C D in diverſis Planis, ita tamen ut E G producta, ſit ad rectos *angulos utrique A B & C D: accedant denique ad ſe invicem Corpora, prout opus fuerit, ſervata tamen eadem inclinatione & ſitu Axium.*

Dico, ex revolutione & mutua attritione Corporum prius poſitorum exurgere noua corpora Geometrica, quorum P & Q erunt Cylindroidea Hyperbolica *æqualia, R. vero* Conoides Hyperbolicum, *ſpecie & magnitudine datum.*

Demonſtrationem in promptu habemus, nec non Modulum ipſius Machinæ, terendis Lentibus Hyperbolicis deſtinatæ; quam operoſa pictura & prolixa explicatione deſcribere, mihi & artifici magis fuerit moleſtum, quam Dædalo *cuivis ſagaci ſimilem ad-invenire. Poſtquam enim expoſita jam ſunt principia Geometrica, facile erit conjicere, quale ſit Inſtrumentum; nempe, tres ſunt Tabulæ oblongæ, planæ, validæ, labiles, & ſibi invicem impoſitæ: Infima & Media ſuſtinent* inæqualia *Capitula (ſive Anſas mamphur ſuſtinentes) alternatim poſita; id poſtulat utriuſque mamphuris obliquitas & quaſi decuſſatio: Summæ Tabulæ* æqualia *ſunt Capitula in longum Tabulæ diſpoſita; & perforato citimo Capitulo mamphur tranſmittitur. Omitto rotas, rotulas, lora, pondera, cochleas, & reliqua admotum expeditum & Machinæ firmitudinem neceſſaria. P pertinet ad infimam Tabulam; Q ad mediam; R, ad ſummam. R, Lens eſt vitrea: Q, Modulus Lentem terens; P, Formula Modulum corrigens; quæ, dum motu obliquo, & diverſo a motu tam Lentis quam Moduli, fertur, delet continuo & deterit, quicquid vitii imprimitur in Modulum ex Lentis & Materiæ attritione.*

Quare, cum ad eo ſimplex & ſpontanea ſit iſta Hyperbolici Conoidis *genitura, ex ſolis nempe motibus Circularibus; cumque motus ſit duplex & varius, credibile eſt, Lentes* Hyperbolicas *ex hiſce Principiis vel nullis fore explicandas.*

Some Inquiries Concerning the Salt-Springs *and the Way of* Salt-making *at Nantwich in Cheſhire; Anſwer'd by the Learned and Obſerving* William Jackſon *Dr. of Phyſick.*

1. *WHat is the depth of the Salt-ſprings?* The depths are various, in ſome places not above 3. or 4. yards. In our Town of *Nantwich*, the Pitt is full 7. yards from the

Dr Ch: Wrens Engin.

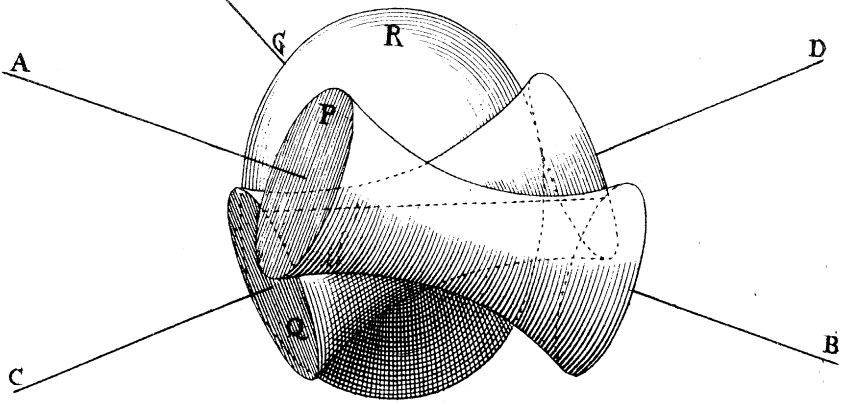
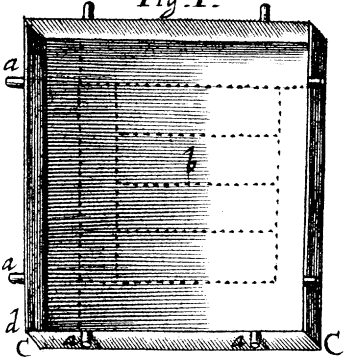


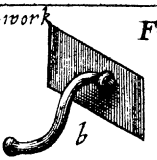
Fig. I.



For y^e Salt-work

Fig. III.

Fig. IV.



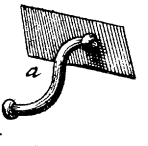


Fig. V.

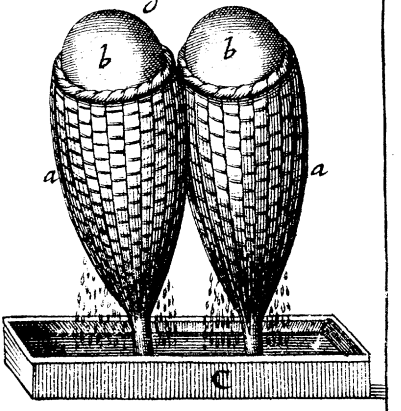


Fig. II.

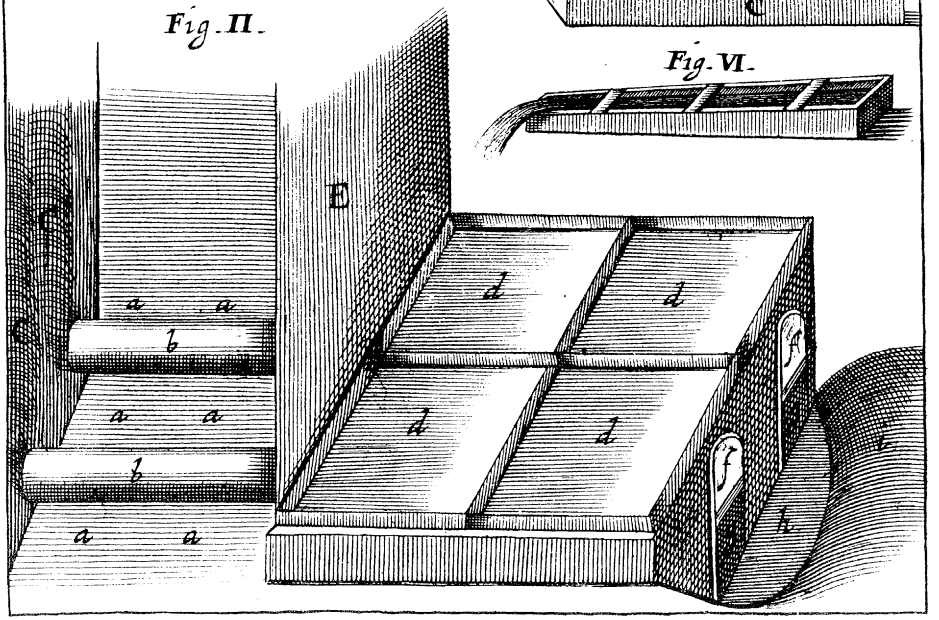


Fig. VI.