

58. For, those answering to the Radius so divided, are $\frac{SR}{\Sigma}$; (taking S in *Arithmetical* progression.)

59. And then, enlarging the Base (as in Fig. 8.) or the Tangent (as in Fig. 9.) in the proportion of the Tangent to the Sine.

$$S \cdot \frac{SR}{\Sigma} (\because \Sigma \cdot R) :: \frac{SR}{\Sigma} \cdot \frac{SR_2}{\Sigma_2} = \frac{SR_2}{R_2 - S_2} \cdot$$

60. We have (by division) this Series,

$$S + \frac{S_3}{R_2} + \frac{S_5}{R_4} + \frac{S_7}{R_6} + \frac{S_9}{R_8} \&c. \quad R^2 S^2 \cdot SR^2 (S, + \frac{S_3}{R_2}, + \frac{S_5}{R_4}, +$$

61. That is (putting R=1)

$$S + S^3 + S^5 + S^7 + S^9, \&c.$$

62. Which (multiplying the respective members by $\frac{1}{2}S, \frac{1}{4}S, \frac{1}{8}S, \frac{1}{16}S, \&c$) becomes

$$\frac{1}{2} S^2 + \frac{1}{4} S^4 + \frac{1}{8} S^6 + \frac{1}{16} S^8 + \frac{1}{32} S^{10}, \&c.$$

$$\frac{SR_2 - S_3}{S_3} + S^3 - \frac{S_5}{R_2} + \frac{S_5}{R_2} - \frac{S_7}{R_4} + \frac{S_7}{R_4}$$

Which is the Aggregate of Tangents to the Arch who's right Sine is S.

63. And this method may be a pattern for the like process in other cases of like nature.

An Explanation of the Figures of Several Antiquities, communicated by a Member of the Royal Society.

- FIG. 10, 11, 12, 13, 14, 15. *Res Turpiculae*, or *Præcipi*, worn by Roman Children against Fascination.
- 16. An Ægyptian brass *Serapis*, or *Teraphim*.
- 17. A brass *Stilus Scriptorius*.

K k k 2 18, 19. Old



18, 19. Old Roman Keys of brafs; one being a Ring to wear on a Womans finger.

20. An Iron Die, or *Alea*.

21. A flat Iron Die, or *Talus*; upon the narrow fides are 6. 5. 2. and 1.

22. A Roman Iron Ring.

23. An old Roman brafs Ring, marked XXXV, for a flave to wear.

24. A brafs Roman Ear-Ring.

25. A brafs *Lunula*, or *Meniscus*.

26. A brafs *Fibula*.

27, 28, 29, 30, 31. Antient *Pafts*, or *Opaque-Enamels* of divers colours, for Pavements; taken up at *Baia*.

The Figures 32, 33, 34. represent the *Cochineel Fly*, as feen on its belly by the help of the *Microscope*, and by the naked Ey, and as feen on its back thro' a *Microscope*; the Draughts of which were communicated by Dr *Tyfon*, Fellow of the *Royal Society*.

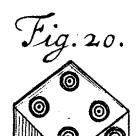
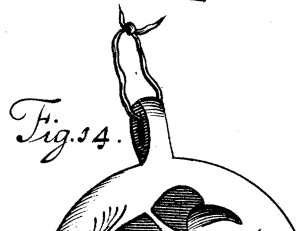
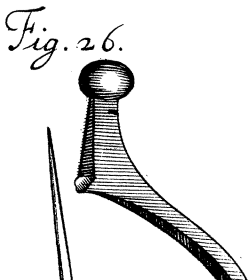
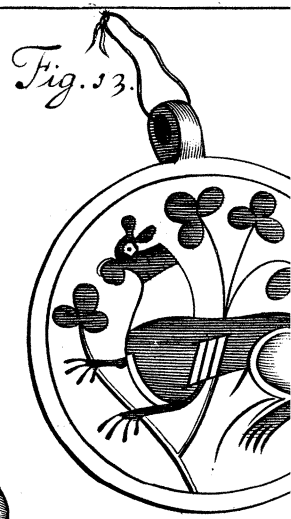
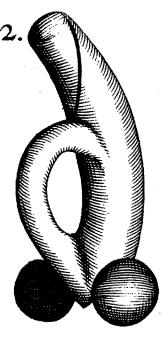
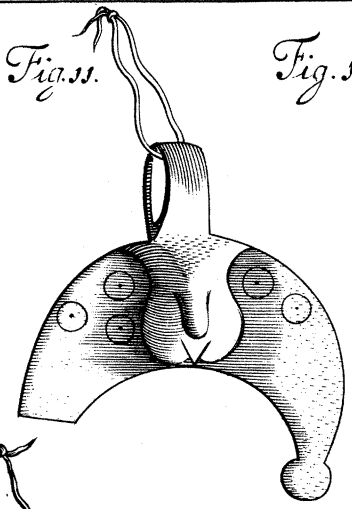
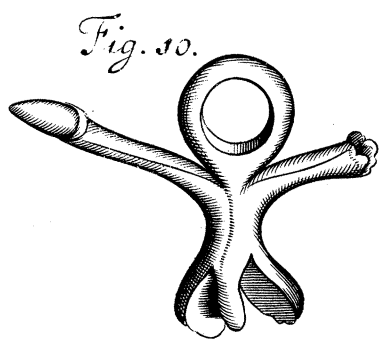
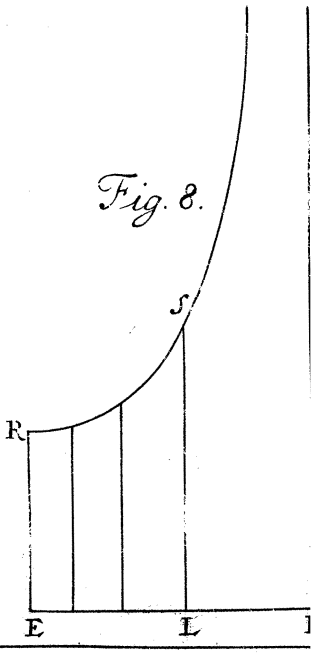
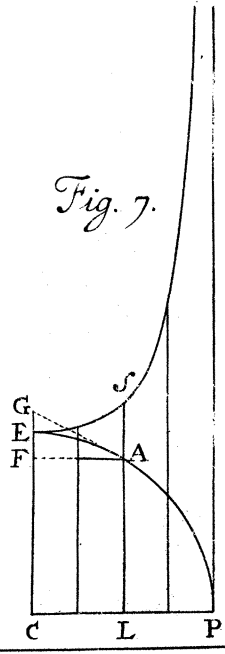
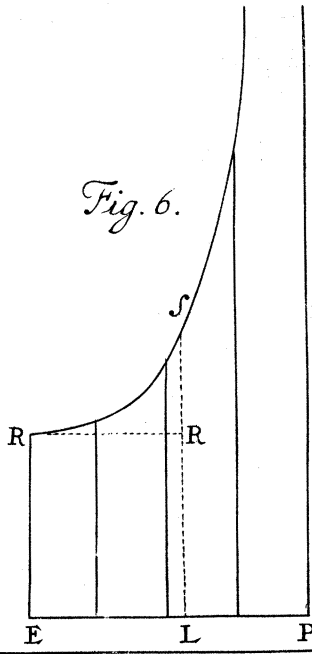
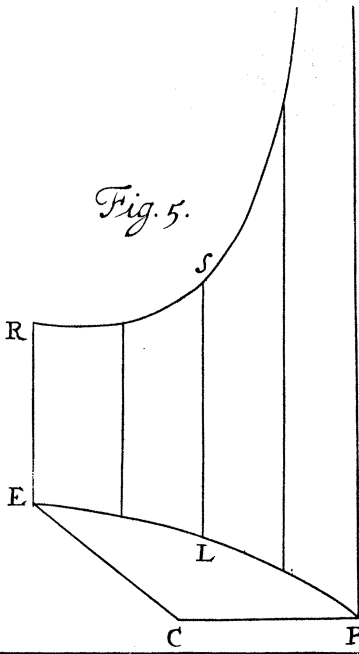
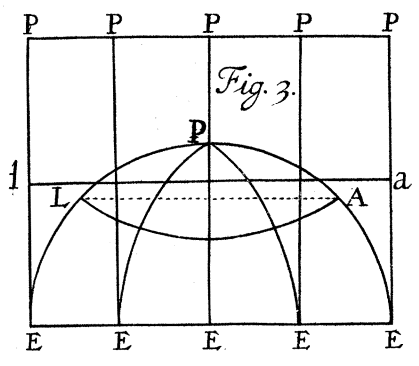
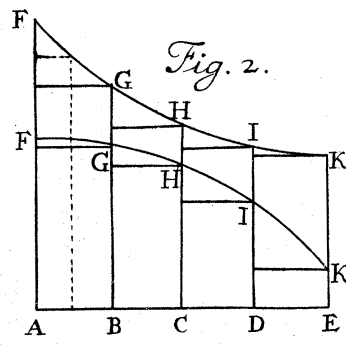
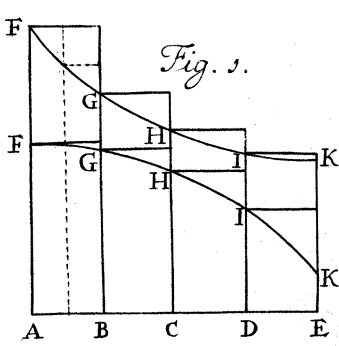
A Letter from Mr. S^r Georg Afh, Sec. of the Dublin Society, to one of the Secretaries of the Royal Society; concerning a Girl in Ireland, who has feveral Horns growing on her Body.

Trin. Coll. the 10th of *Octo*. 1685.

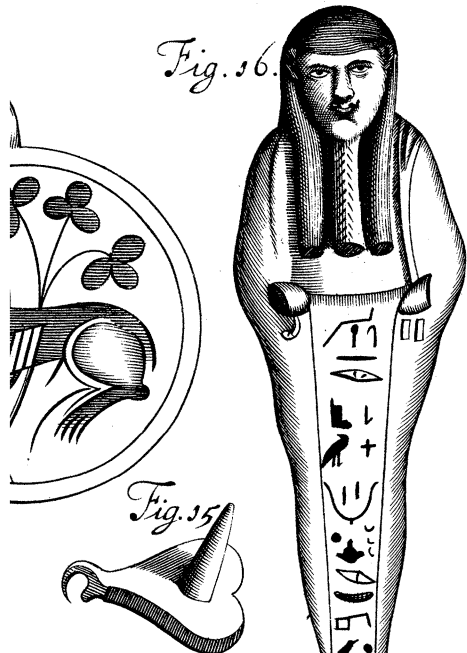
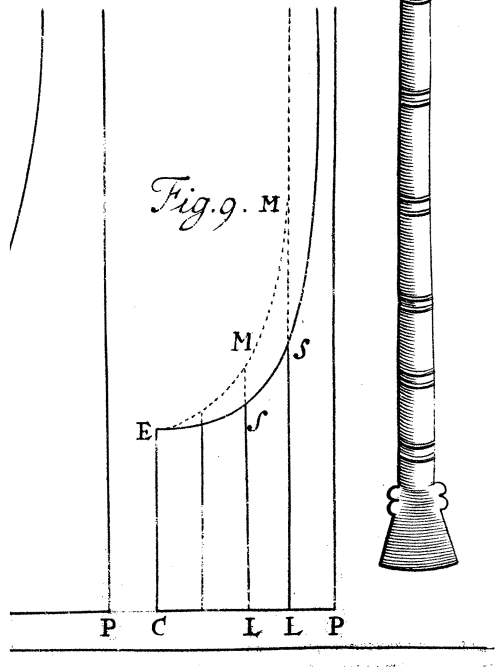
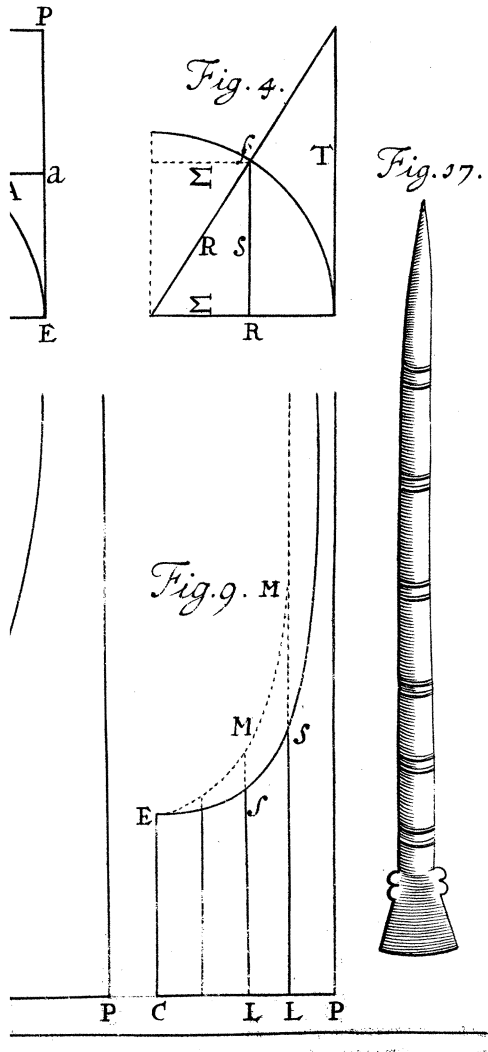
Hon. Sir.

THE Account I here fend of the *Horny Girl* is, much more imperfect then I hoped it would have been, both becaufe its parents or friends, who might give fome information of the beginning and occafion of the growing out of thefe *Horns*, are not to be found, and that the owner of this Monster would not be perfwaded to let us take the figure thereof, which we defign'd to prefent you.

She



176.



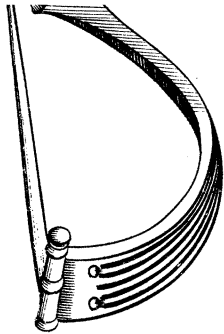


Fig. 27.



Fig. 31.



Fig. 28.

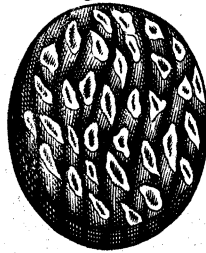


Fig. 29.

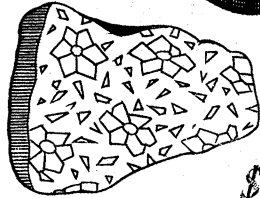


Fig. 30.

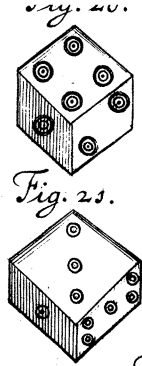


Fig. 25.

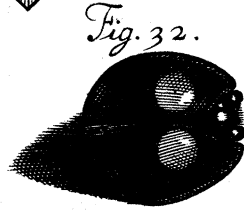


Fig. 32.



Fig. 33.

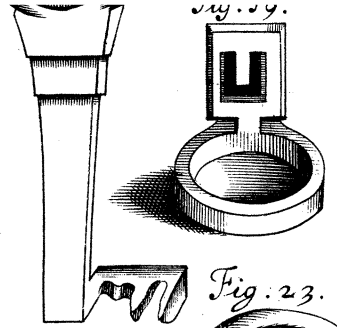


Fig. 23.

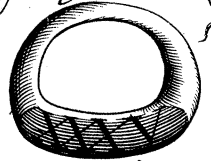


Fig. 24.



Fig. 34.

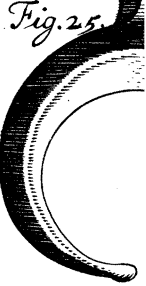
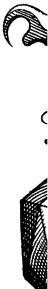


Fig. 26.

Fig. 24.

Fig. 20.

Fig. 29.



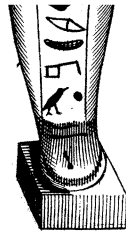


Fig. 22.

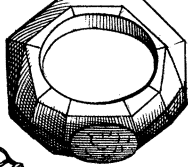


Fig. 24.

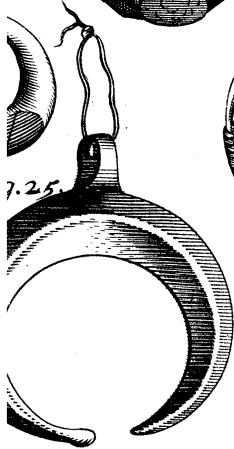
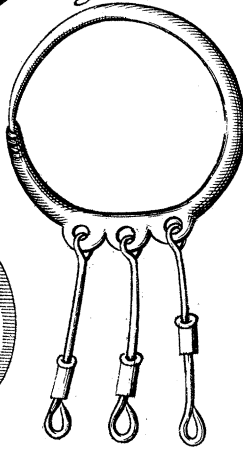
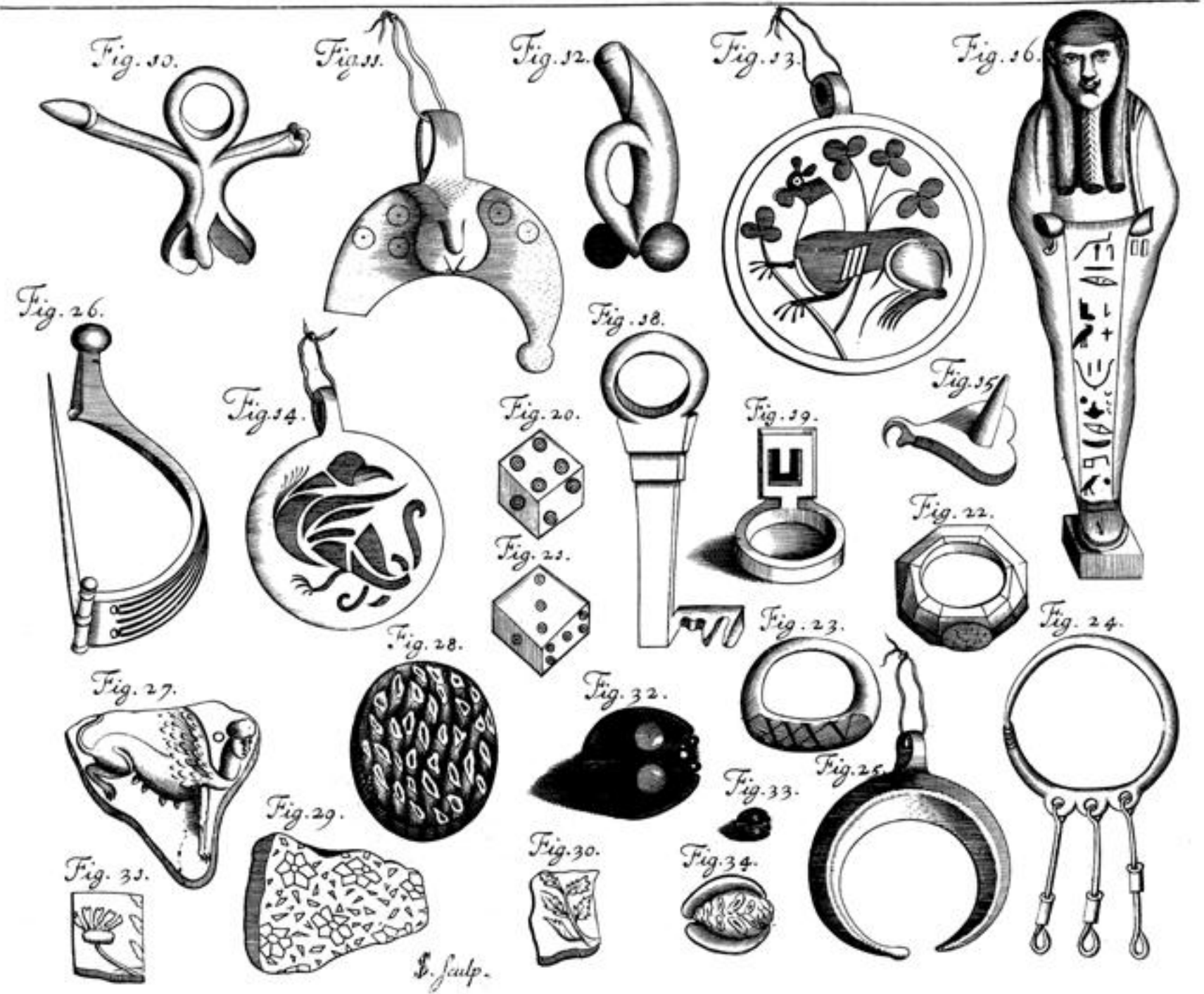
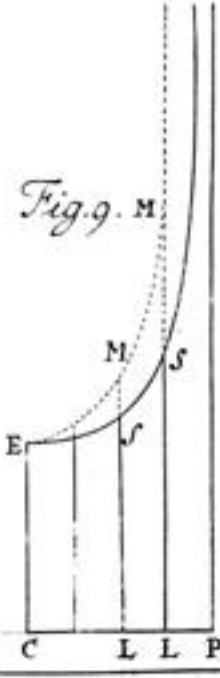
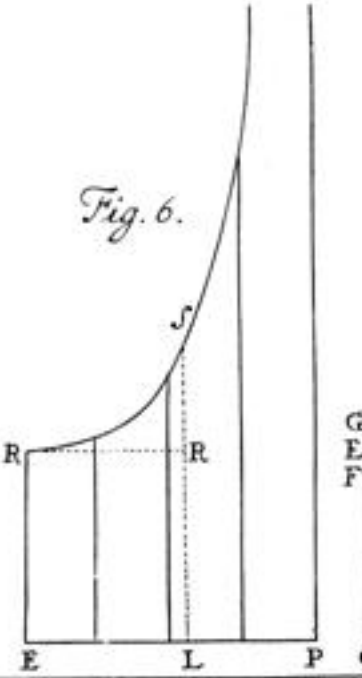
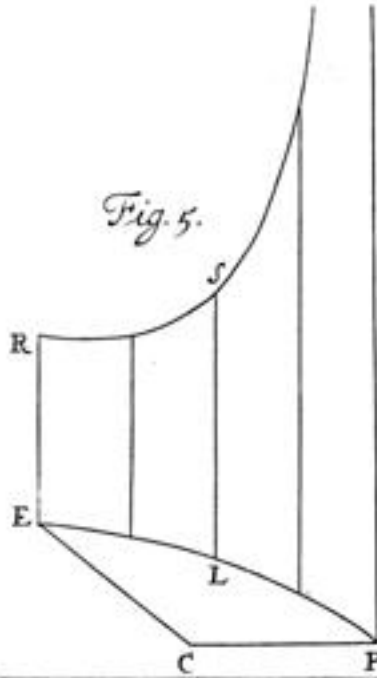
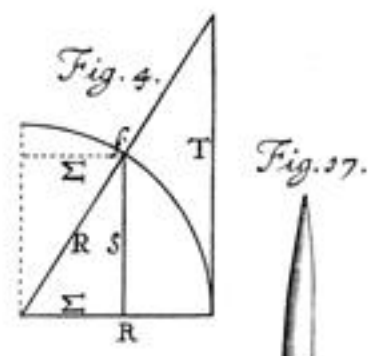
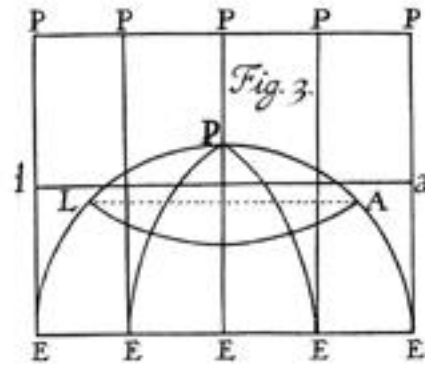
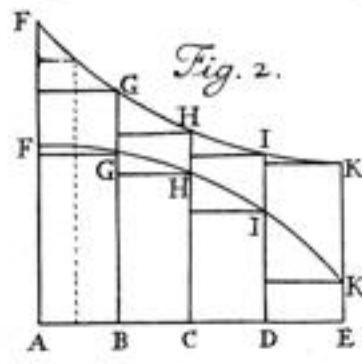
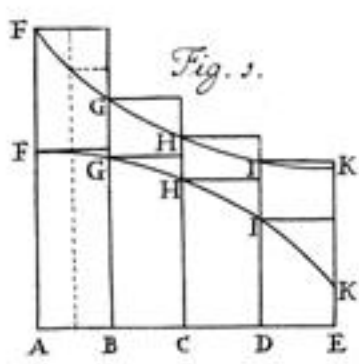


Fig. 25.





D. sculp.