

# PHILOSOPHICAL TRANSACTIONS.

February 19. 1672.

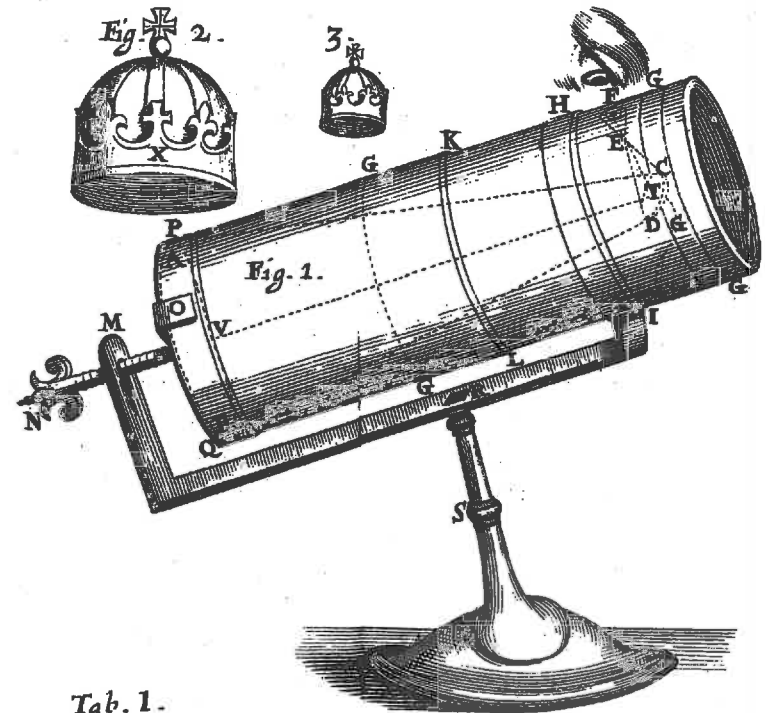
*A Letter of Mr. Isaac Newton, Professor of the Mathematicks in the University of Cambridge; containing his New Theory about Light and Colors: sent by the Author to the Publisher from Cambridge, Febr. 6. 1672; in order to be communicated to the R. Society.*

( 4904 )

*An Account of a New Catadioptrical Telescope invented by Mr. Newton, Fellow of the R. Society, and Professor of the Mathematicques in the University of Cambridge.*

**T**His Excellent Mathematician having given us, in the Transactions of *February* last, an account of the cause, which induced him to think upon *Reflecting* Telescopes, instead of *Refracting* ones, hath thereupon presented the Curious World with an *Essay* of what may be performed by such Telescopes; by which it is found, that Telescopical Tubes may be considerably shortned without prejudice to their magnifying effect.

This new instrument is composed of two Metallin *speculum's*, the one *Concave*, (instead of an *Object-glass*) the other *Plain*; and also of a small *plano-convex* Eye-Glass.



Tab. 1.