

and flash'd. A dry substance, affirm'd to have continued shining two years, flash'd. Seemed to partake of the odor of Sulphur and of Onions. It fired Gunpowder first warmed, And a White paper, held a considerable distance over Coals. To which are added some Experiments on the *Phosphorus Baldmini in vacuo*, and in the open Air.

To these are added Mr. Gallet's Apparatus for observing \odot in ∇ , and his observations of 4 Spots in \odot ; contained in a Letter to Mr. Cassini. Mr. Cassini's reflexions hereon. And his further discoveries about the motion of Jupiter upon its own Axis, and several new Appearances of that Planet. Together with Mr. Hally's Observat. of ∇ sub \odot . Three Southern Stars never visible in England. And the 2 *Nubeculae*, called by Saylor, the *Magellanick Clouds*; in a Letter to Sir Jonas Moore.

The Second Part is called *Microscopium*. In which, two Letters from Mr. Lewenboeck, containing further Observations of the little Animals, of several kinds, bred in Water, after the infusion of Pepper. Likewise of the Particles of Blood, Milk, Phlegm, Gums dissolved and precipitated. The manner how the same were also seen at the Meetings of the R. Society. As also how to find the figure and texture of Animal and vegetable parts. A description both of double and single Microscopes; and how they are to be used. Of the like little Animals (as above) bred upon steeping other Grains in Water, as well as Pepper.

Hereto is added a Relation of the Symptoms following the slipping of a Leaden-bullet into the Wind-pipe of a certain person, and there sticking till his death, which hapned not before some years after. Together with what was observable in his Lungs upon Dissection; in a Letter from Mr. James Young, an experienced Chirurgion in *Plimouth*.

To the whole Book are added Five Tables of Figures. An Advertisement of the Monthly continuation of the Mechanick Exercises; by Mr. Joseph Moxon.

THE Ingenious Author having begun and continu'd his three first Months Exercises on *Smithery*: in these three next, he gives an account of *Foyner*.

In the first, a description of some Tools. Then of Setting the Iron. Of the Joynter. The Strike Block. The Smoothing Plain. Rabbet Plain. The Plow. Molding Plains. Grinding and Whet-
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ing the Edg-Tools. Of Forms, The Paring-Chiffel. Skew Former. Mortefs-Chiffel. The Gouge.

In the second ; Of the Square. Of Plaining and Trying a piece of Stuff square. To frame two quarters Square one into another. The Miter Square. The Bevil. Miter-Box. The Gage. the Piercer. Gimblet. Augre. Hatchet. Of Saws in general, Particularly of the Pit-Saw.

In the last ; Of the Whip-Saw. The Hand-Saw. The Frame-Saw, and Tenant-Saw. The Compass-Saw. The Rule. Compasses. Glew, and Glewing. The Waving Engine. Wanscoting of Rooms. Together with an Alphabetical Table of Terms used among Joyners, and their Explanation.

The Author hath also given the Figures of all their Tools. *At the end of the last Mechanical Exercise (vid. Numb. 6.) the Author giveth notice of a new Invention. Which I think fit likewise here to do, in his own words, as follows.*

There is invented by the Right Honourable the Earl of *Castlemain* a new kind of Globe, called (for distinctions sake) the *English Globe*; being a fix'd and immoveable one, performing what the Ordinary ones do, and much more, even without their usual Appendancies, as *Wooden Horizons, Brazen Meridians, Vertical Circles, Horary Circles, &c.* For it composes it self to the Scite and Position of the World, without the *Mariners Compass* or the like Foreign help ; and besides, other useful and surprizing operations (relating both to the *Sun* and *Moon*, and performed by the Shade alone,) we have by it not only the constant proportion of Perpendiculars to their Shades, with several Corollaries thence arising, but also an easy new and most compendious way of describing *Dials* on all Planes, as well Geometrically as Mechanically, most of which may be raught any one in few hours, though never so unacquainted with the Mathematicks.

To this is added on the *Pedestal* a Projection of all the appearing *Constellations* in this Horizon, with their Figures and Shapes. And besides, several new things in it differing from the common *Astrolabe* (tending to a clearer and quicker way of operating) the very Principles of all *Steriographical Projections* are laid down and Mathematically demonstrated, as is every thing else of moment throughout the whole Treatise.

These *Globes* will be made and expos'd to Sale about *August* next (God willing) against which time the Book for its use will also be printed, and sold by *Joseph Moxon* on *Ludgate-Hill* at the Sign of the *Atlas*.

L O N D O N,

Printed for *John Mirtyn*, Printer to the *Royal Society*, 1678