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Holes in the Board, the one having the red hot Iron in it, the other the Candle.

Now if, of the refracted Rays of the Candle in the first Case (Fig. 25.) those which diverge from each other, so as to fall into each Eye, cause the same Sensations respectively, as the Rays which come from a red hot Iron and those which come from a blue Candle; it is evident that the Candle in the first case affords red-making and blue-making Rays after Refraction, and that those Rays are differently refrangible; the red b R (Fig. 25.) the least refrangible, as declining less from the Perpendicular ww; and the Purple as b P declining most from the said Perpendicular.

The same will (cateris paribus) be found true in the intermediate Rays; and to be certain that the Experiment is as I have related it, the Planes  $\alpha f$  and fd of the Barr may be covered with Paper.

IV. An Account of what appear'd on opening the big-belly'd Woman near Haman in Shropshire, who was suppos'd to have continued many Years with Child. Communicated by Dr. Hollings M.D. from Shrewsbury.

Marry'd Woman, near Haman about Three Miles from Shrewsbury, about the 40th Year of her Age, had then first the common Reasons to believe she was with Child: at the Time of her Account she had the usual Signs of Labour, and a good Midwise, tho' mistaken, assur'd her it was so, but that the Child was so big she could not be delivered without bringing it away in pieces. She not submitting to that, her Pains were soon off, and she continued without any other Disorders Nine Months longer, when

when she had again the Signs of Labour; and the same Midwife affur'd her as before, and the perfifting in her former Resolution, her Pains, after a Day or two went off. Soon after her Belly swell'd to a surprizing Size, by which the got Subfiftance for her Family by being feen as a Shew. I saw her first above twenty Years since, when her Belly was almost even with her Chin, the Weight of it so great, that she was oblig'd to support it with a Stool. She could not stand without the help of a Rope from the Cieling, which affilted her in changing her Posture of fit-She flept commonly with her Arms folded on her Beily, and her Head rested between them. She had no swelling in her Legs: every other Part emaciated as usual in the like Cases. Thus this poor Creature liv'd without any other confiderable Complaint above Thirty Years. the most remarkable Circumstance, Ithink, in her Case. She died in May 1715, when this appear'd to be an Ascines.

I need not mention the State the common Teguments must necessarily be in from so great a Distention, which had distorted many of her Ribs, and forc'd the Diaphragm so high, that it was furprizing to find her breathing could be fo long continu'd. The Water was all contain'd in the Duplicature of the Peritonaum, 13 Gallons besides a Quart that was spilt: it was saltish, with some little fat upon it, and towards the latter Running ting'd with Blood as usual. There was not any Water in the Cavity of the Abdomen, except what was contain'd in a kind of Bladder of the Shape I have fent, Fig 31. which lay a -cross the Fundus Uteri. This was divided by a Cartilaginous Substance into two Cavities; in one there was a Pint and a half, in the other three Parts of a Pint of Water. I believe it was this (I know not how) impos'd on the Midwife. The Uterus was of the natural Size without any Alteration, except that the Os Tince and Collum minus were fill'd with a gritty Substance, hard as Stone, which I take to be the Humour · fepaseparated there, and coagulated by Time. Mr. Cooper Tab. 15. Fig. 4. says he found the same Parts fill'd with a glutinous Matter, which he thinks is useful to prevent Abortion; which if vitiated, Impregnation is hinder'd.

The Liver and other parts contain'd in the Abdomen, were forc'd into an incredible small Compass (and by that Pressure a little chang'd in Shape) to perform their Office so long; to which the Muscles of the Abdomen, distended so as to be scarce discernible, could give but little, if

any, Assistance.

The Awe that People have here for dead Bodies, tho' never so prejudicial to the Living, would not suffer her Friends to let me make any farther Enquiry; so that I can send no Account of any other Part. The same Error hindered me examining another Woman, who died here about a Week after, of an Ascites which she had had Forty Years, any farther than to be satisfied she had Seven Gallons of Water contain'd between the Duplicatures of the Peritonaum, and none in the Cavity of the Abdomen.

IV. Methodus singularis quâ Solis Parallaxis sive distantia à Terra, ope Veneris intra Solem conspiciendæ, tuto determinari poterit: proposita coram Regia Societate ab Edm. Halleio J. U. D. ejusdem Societatis Secretario.

Lurima sunt maxime quidem paradoxa, omnemque fidem apud vulgus superantia, quæ tamen adhibitis Mathematicarum Scientiarum principiis levi negotio enodantur. Ac sane nullum problema magis arduum ac difficile videbitur, quam est Soids à Torra distantiam vero proximam determinare; quod tamen obtentis accuratis



