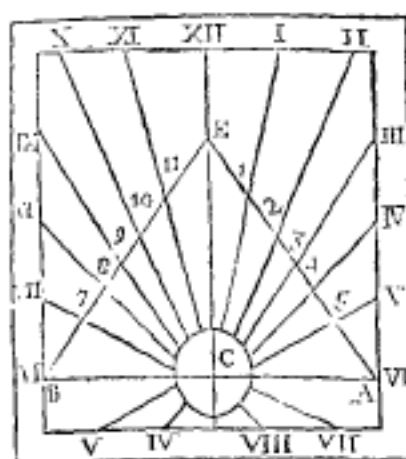


Compasses accordingly; as you see in the Figure:



Then Lines drawn from C, the Center of the Dial, through those Points 1, 2, 3, 4, 5, and 11, 10, 9, 8, 7, &c. shall be the true Hour Lines. And this is a very ready and easy way to describe the Hour Lines on any Plane.

See Collins's Sector on a Quadrant.

The other Scales are particular, and give the several Requisites for all upright declining Dials by Inspection.

They are these:

1. A Line of Chords.
2. A Line for the Substile's Distance from the Meridian.
3. A Line for the Style's Height.
4. A Line of the Angle of 12 and 6.
5. A Line of Inclination of Meridians.

When these are placed all together on a Ruler in order as they should be;

Count the Plane's Declination in the Line of Chords, and then a Square laid over it will intersect all the other Lines in their proper Points: Or you may open the Compasses to the Plane's Declination in the Chords, and then that Distance will find all the rest in the other Scales. Thus, suppose a Plane decline 35 Deg. from the Meridian, then all the Requisites by these Scales will be found thus:

	Deg.	Min.
The Substile's Distance from the Meridian	24	30
The Style's Height	30	38
The Inclination of Meridians	41	49
The Angle of 12 and 6	84	10

All which previous Requisites being found, the Dial may be drawn easily and readily by applying in the Hour Scale by the Help of the Line of Lines and the Substilar Line, as Collins shows how to do in his Sector on a Quadrant, p. 248. or by any other Method of describing Hour Lines on a given Plane.

DIAMETER of Gravity, in any Surface, Body, or Solid, is that Right Line in which the Center of Gravity is placed.

DIHELIOS, in the Elliptical Astronomy, is the Ordinate of the Ellipsis which passes through the Focus in which the Sun is supposed to be placed. See Kepler.

DILAPIDATION, is a wasteful destroying, or letting of Buildings run to Ruin and Decay for want of Reparation, 13 Eliz. c. 13. And the Money recover'd for Dilapidations, by 14 Eliz. 11. Vol. II.

shall be employ'd in the Repair of the same Houses.

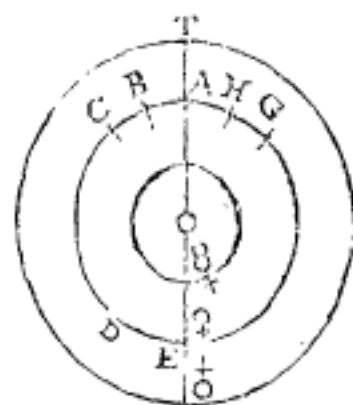
DILVING, is a Word used in the dressing of Tin Ore; and means, taking the Forehead of what is in the 2d Buddle after the 2d Trampling, and putting it into a Canvas Sieve, to shake it lustily about in a large Tub of Water, so that the Filth goes over the Rim of the Sieve, leaving the Black Tin behind. See Tin, Buddle, and Trampling.

DIAZEUTICK Tone, in the Ancient Greek Musick, was that which disjoin'd two Fourth, one on each Side of it, and which being join'd to either, made a Fifth. This was in their Musick that from Mese to Paramese; that is, in our Musick, from A to B, supposing Mi to stand in B-flat, which is accounted its natural Position. They allowed to this Diazeutick Tone, which is our La, Mi, the Proportion of 9, to 3, as being the unalterable Difference of Diapente and Diatesseron, or of the Fifth and Fourth.

DICASTRICK Muscles, sometimes called Biventer, are such as have a double Belly.

DIMISSORY Letters. When a Candidate for Holy Orders hath a Title in one Diocese, and is to be ordain'd in another, the proper Diocesan gives his Letters Dimissory directed to some other Bishop, giving Leave that the Beator may be ordain'd to such a Cure within his District.

DIRECT Motion of a Planet. To any Eye placed at the Earth's Surface, Venus and Mercury, which move round the Sun in lesser Orbits than it doth, will sometimes appear direct, and sometimes Stationary and Retrograde.



For let the Earth be at T, moving round the Sun in the Orbit T O from West to East. Let A C D F be the Orbit of Venus revolving the same Way, but performing its Revolution in a shorter Time. It will then be plain, that when Venus is in that Part of her Orbit expressed in the Figure by D E F, and which is most remote from the Earth, supposed to be in T, I say, Venus will then appear to move forward directly, according to the Order of Signs, or in Consequentia, as the Astronomers speak, and so is said to be Direct. And when she comes to such a Position, in respect of the Sun and Earth, as to be in G; then while she moves from G to H, she will seem to move with equal Celerity with the Sun, for then she tends directly towards the Earth: Nor can she appear to have any other Motion, than as if her Orbit were carry'd by the Sun moving towards the East. Therefore now she will appear to move slower than before, but still she