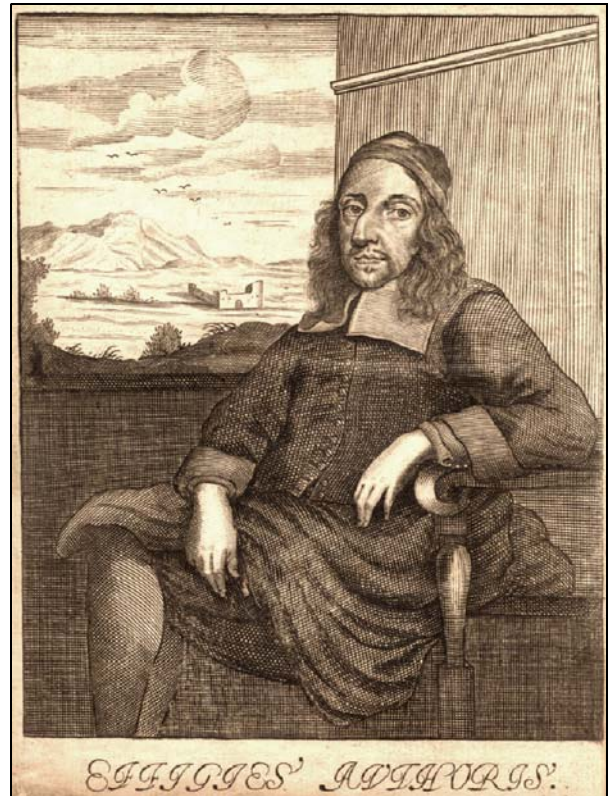
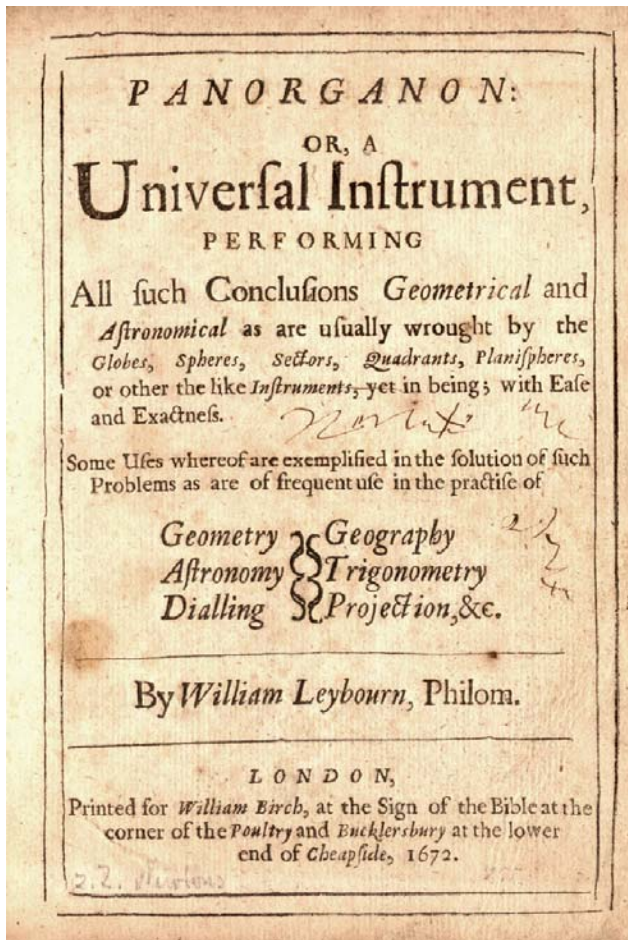


WILLIAM LEYBOURN, PANORGANON

London 1672



At the front is a full page portrait of William Leybourn

"PANORGANON: OR, A Universal Instrument" is a smallish book that describes the Panorganon, a Quadrant type instrument which may be used for dialling purposes or directly from the Sun for telling the time. It is in two main parts:

The First Part.
CONTAINING
The Description, Construction and
Use of the *INSTRUMENT* in
general.

It has the following sections:

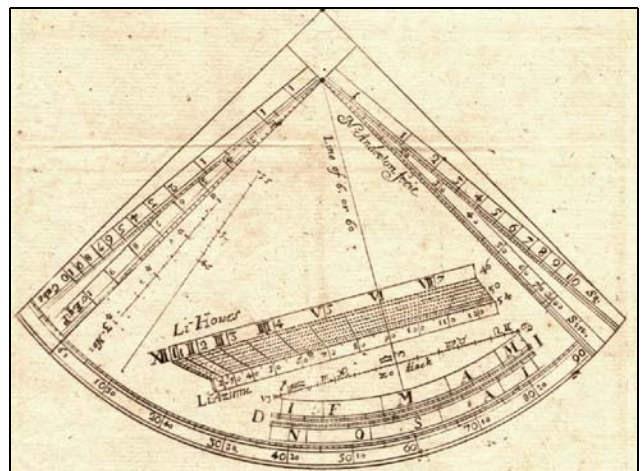
SECT. I.
Of the Circle, Scales and Lines upon the Instrument, their Description and Construction.

SECT. II.
Of the General Use of the Instrument, and the manner of working upon it.

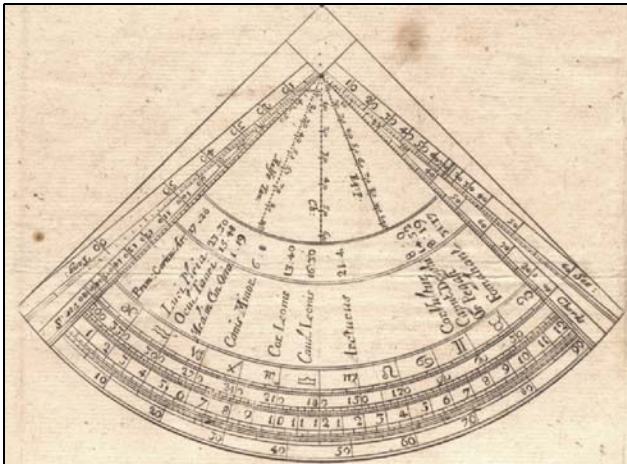
SECT. III.
Shewing some Uses of the Line of EQUAL PARTS; singly in Arithmetick and Geometry.

SECT. IV.
Shewing the General Uses of the Lines of SQUARES and CUBES, singly, and also joyned with the Line of EQUAL PARTS; in Arithmetick, and in Plain and Solid Geometry.

SECT. V.
The Uses of the Line of CHORDS. TRIGONOMETRIA Plain and Spherical.



The Front Side (Quadrantal Part) of the Panorganon



The Reverse Side of the Panorganon

SECT. VI.

Shewing the Use of the Lines of Sines, and Tangents, as they are joyned with the Line of Equal Parts, in the solution of Right-Lined Triangles.

SECT. VII.

Shewing the Use of the Lines of Sines, Tangents and Versed Sines in the solution of Spherical Triangles.

PROJECTION

Of the SPHERE, in Plano.

SECT. VIII.

Shewing some farther Uses of the Lines of Sines Tangents and Secants, in Projecting of the Sphere or Globe in Plano.

SECT. IX.

Shewing the use of the Line of Secants, in describing a Sea Chart according to Mercators Projection.

The Second Part.

CONTAINING

The Uses of those Lines or Scales which are inscribed upon the Quadrantal part of the *INSTRUMENT*.

It has the following sections:

Problemes Astronomical :

PERFORMED

By the *SCALES* upon the Quadrantal part of the *INSTRUMENT*.

SECT. I.

I. Of the two Curved Scales of Moneths.

Problemes in Dialling :

Both *UNIVERSAL* and *PARTICULAR*
PERFORMED

By the Lines *INSCRIBED* on the Quadrantal part of the *INSTRUMENT*.

SECT. II.

A Declaration and Description of the several Plains upon which Dials are to be made.

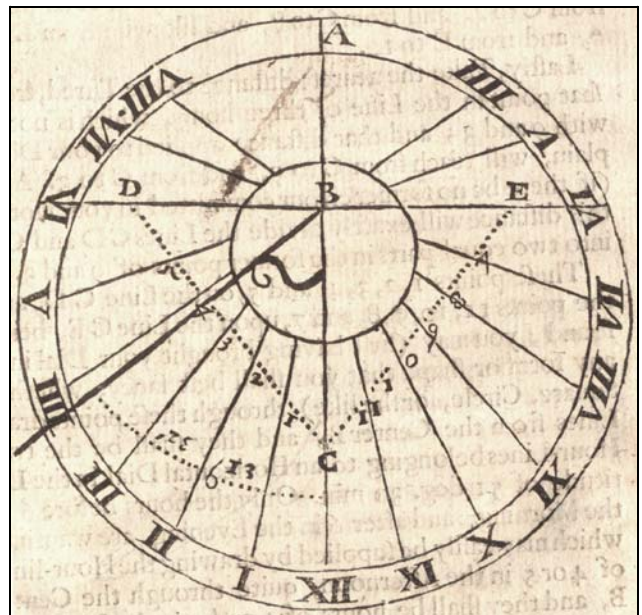
The Uses of the Circles

INSCRIBED

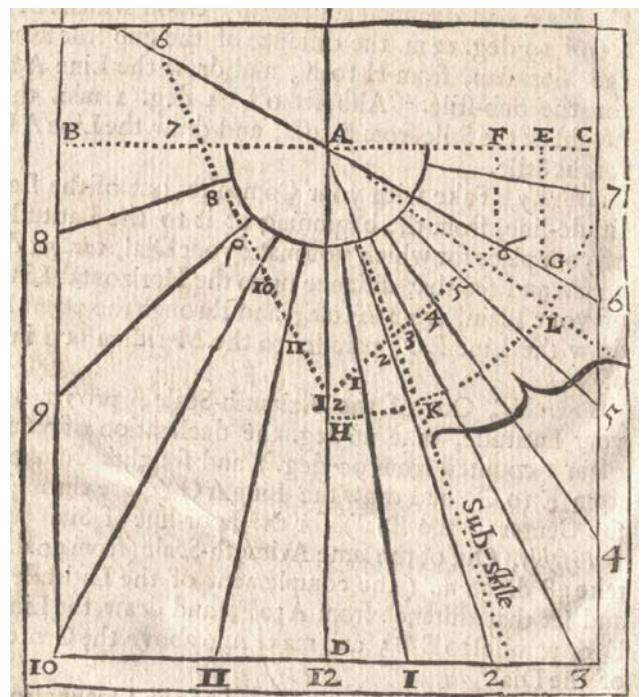
In the Quadrantal part of the Back-side of the *INSTRUMENT*.

SECT. III.

FINIS.



An Horizontal Dial for 51 d. 30 min. as produced by the Panorganon



A South-Dial declining Westward 26 deg. in the Latitude of 51 deg. 30 min. as produced by the Panorganon