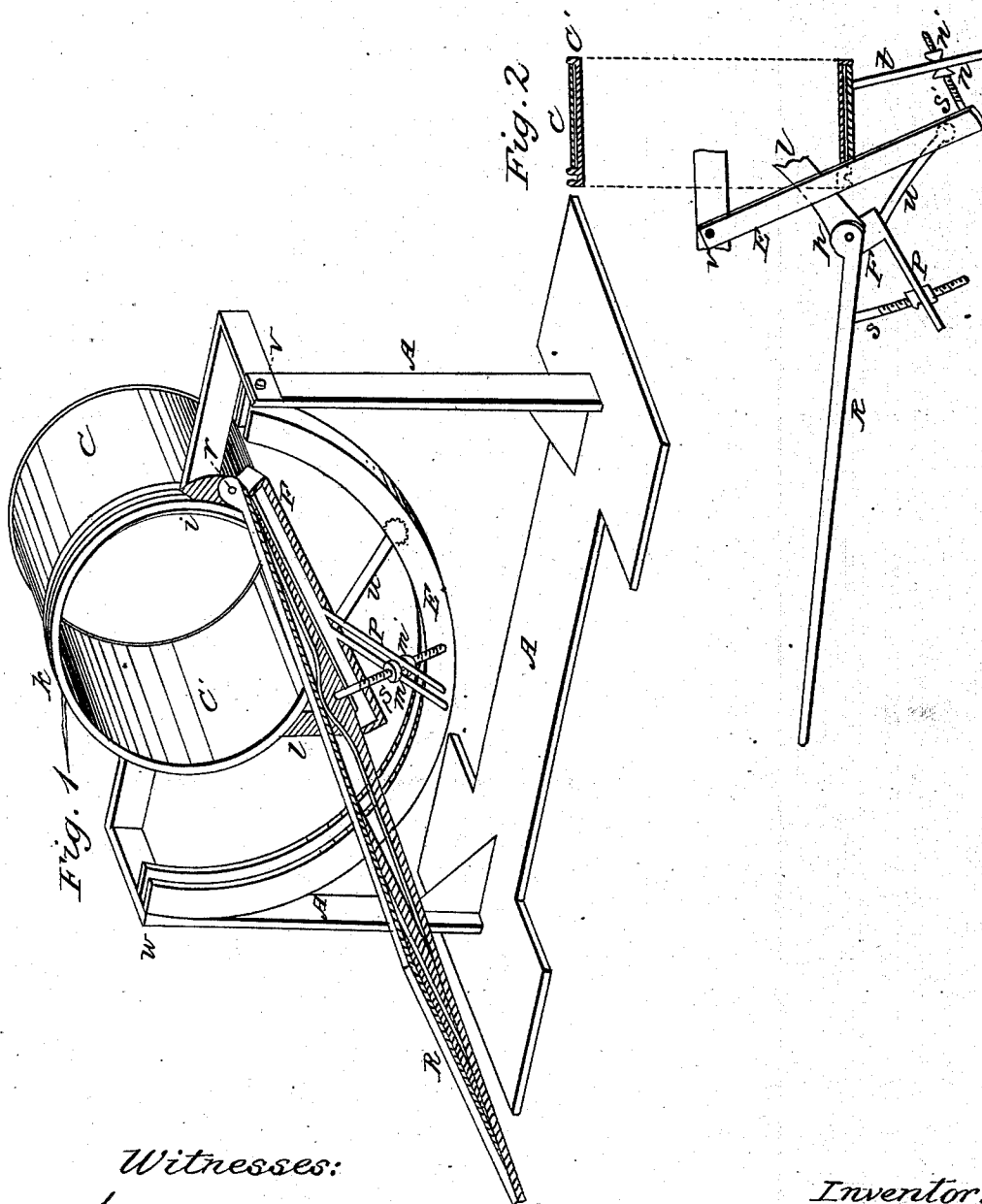


J. B. BLAIR.
Solar Camera.

No. 60,129.

Patented Dec. 4, 1866.



Witnesses:

Joseph. Heath
G. R. North

Inventor:

J. B. Blair

United States Patent Office.

IMPROVEMENT IN SOLAR CAMERAS.

J. B. BLAIR, OF PHILADELPHIA, PENNSYLVANIA.

Letters Patent No. 60,129, dated December 4, 1866.

SPECIFICATION.

Be it known that I, J. B. BLAIR, of Philadelphia, in the county of Philadelphia, in the State of Pennsylvania, have invented a new and useful Improvement on the Solar Camera; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, in which—

Figure 1 is a perspective view; and

Figure 2 is a longitudinal elevation;

Each part being distinguished by the same letter in both figures.

The nature of my invention consists in providing the reflecting solar camera with an adjustable circular bearing for the reflector, so that when adjusted and the instrument properly set, the required compound motion will be given by simply turning the reflector in the usual way around the axis of the lens; the chief object aimed at being the feasibility of attaching clock-work by simple connection either by cord or tooth gearing. The instrument may be constructed of iron or other suitable material.

A A A A is the frame supporting the instrument. C is the outer and stationary cylinder, to contain the lens. R is the reflector frame attached to the cylinder 'C by the lugs l l'. 'C is the inner and revolving cylinder. F is a piece for the support of the reflector frame. The reflector frame is attached to the cylinder 'C by the rod r passing through the lugs l' l, from one to the other, thus forming a hinge. The same rod, r, passes also through two lugs on the piece F, which piece is thus permitted to move freely upon the same hinge with the reflector. A screw-bolt, s, projects downwards from the reflector frame and passes through a slot in the piece p, which projects from the piece F. The two nuts, m m', serve to fasten the reflector frame at any desired angle with the piece F. E is an adjustable circular bearing hung upon pivots at each end, v v'. A screw-bolt, s', projects from the lower part of the piece E, and passes through a slot in the piece t, projecting downward from the cylinder C. The two nuts, n n', serve to fasten the circular piece E to any desired inclination. A bar, u, extends from F to the circular piece E, and enters a groove in said piece E. This bar, u, has a ball upon the end that enters groove, in order that it may move therein with greater freedom. The cord, k, passes around the movable cylinder to be attached to clock-work.

The mode of operating the instrument is as follows: I place the instrument due north and south, the reflector pointing southward, and also level it east and west by the pivots v v', and then I adjust the circular piece E to an inclination that shall suit the latitude in which the instrument is to be used. In like manner I adjust the reflector; and finally I attach the cord k to suitable clock-work. The instrument being now started, by starting the clock-work, will keep a constant beam of sunlight upon the picture.

What I claim as my invention, and desire to secure by Letters Patent, is—

The application of an adjustable piece, E, to the use and purpose substantially as set forth.

J. B. BLAIR.

Witnesses:

JOSEPH HEATH,

G. P. NORTH.