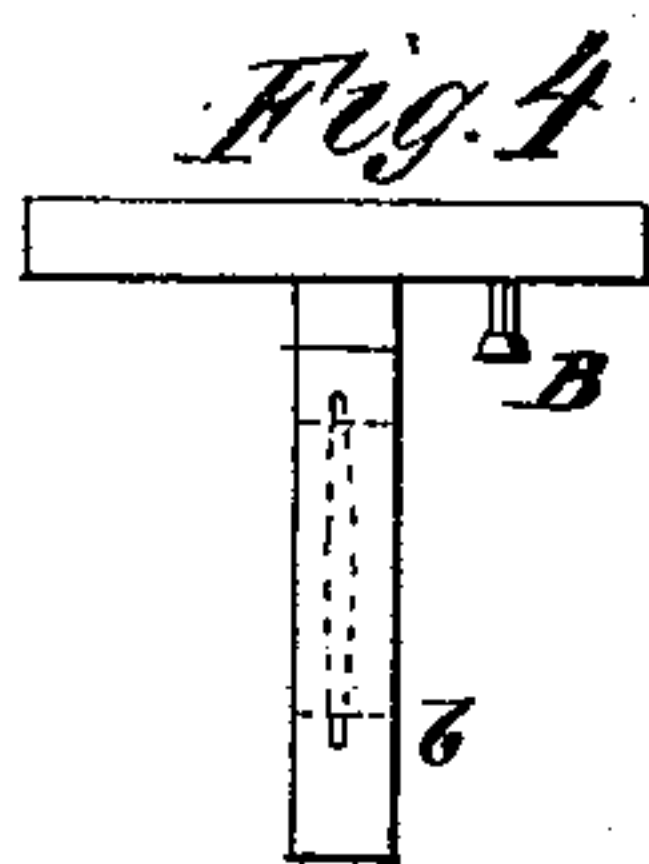
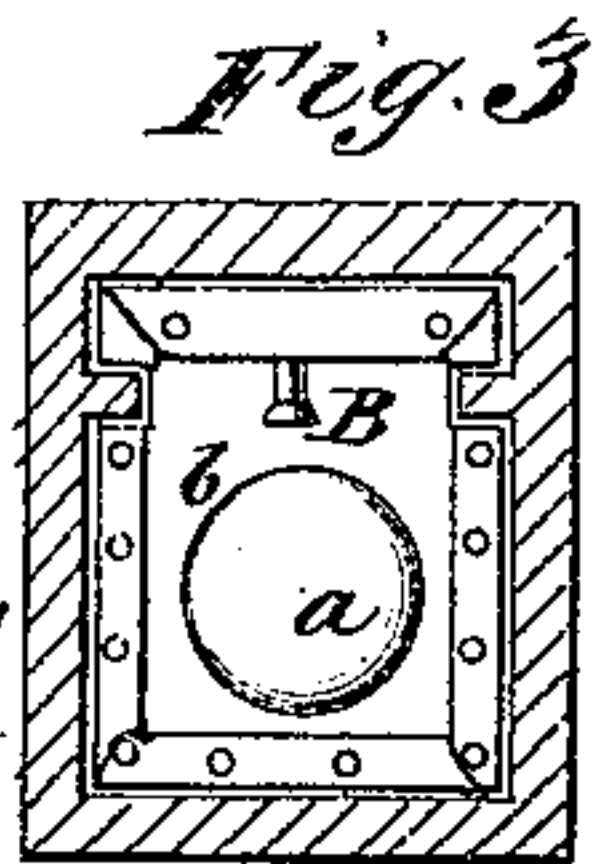
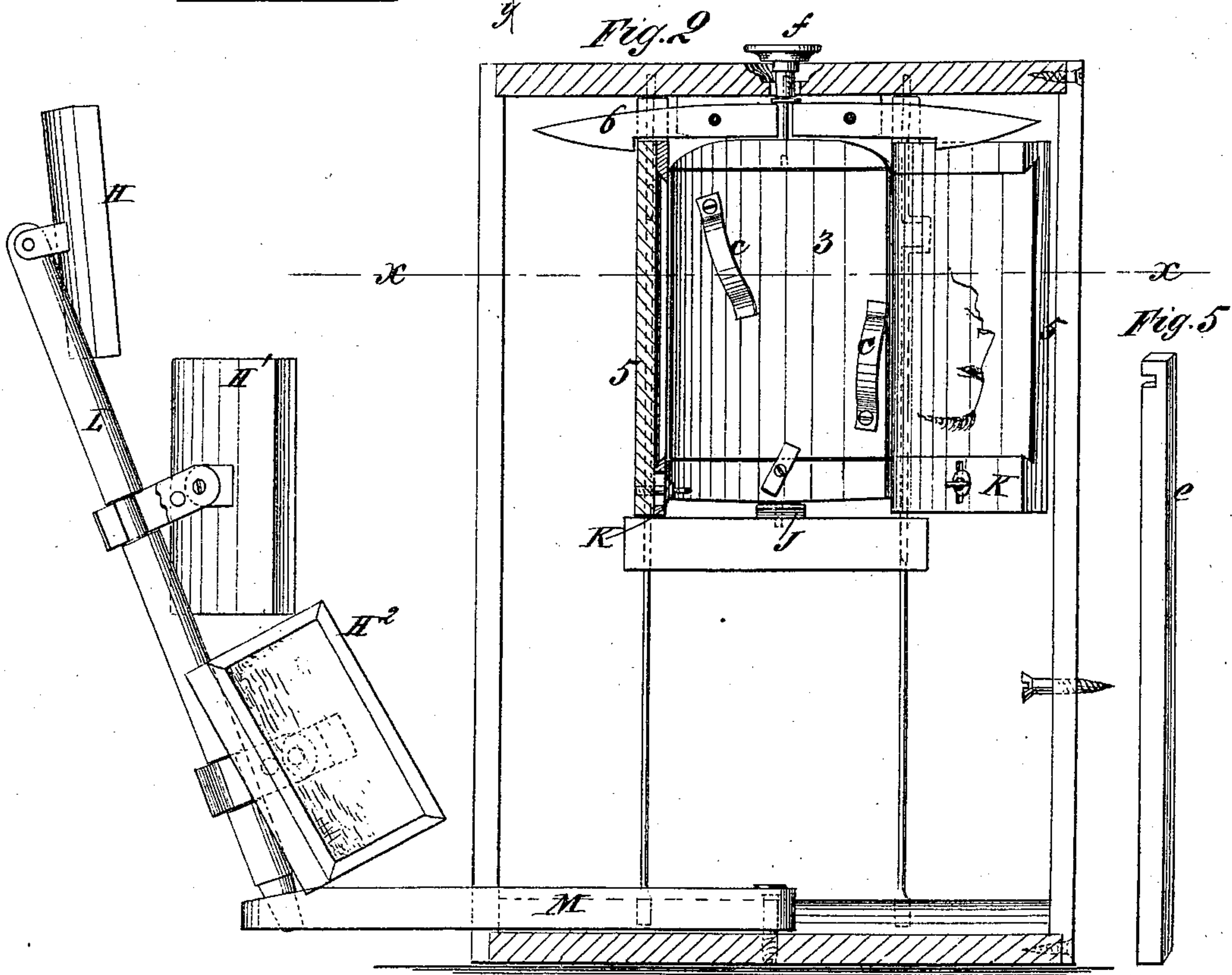
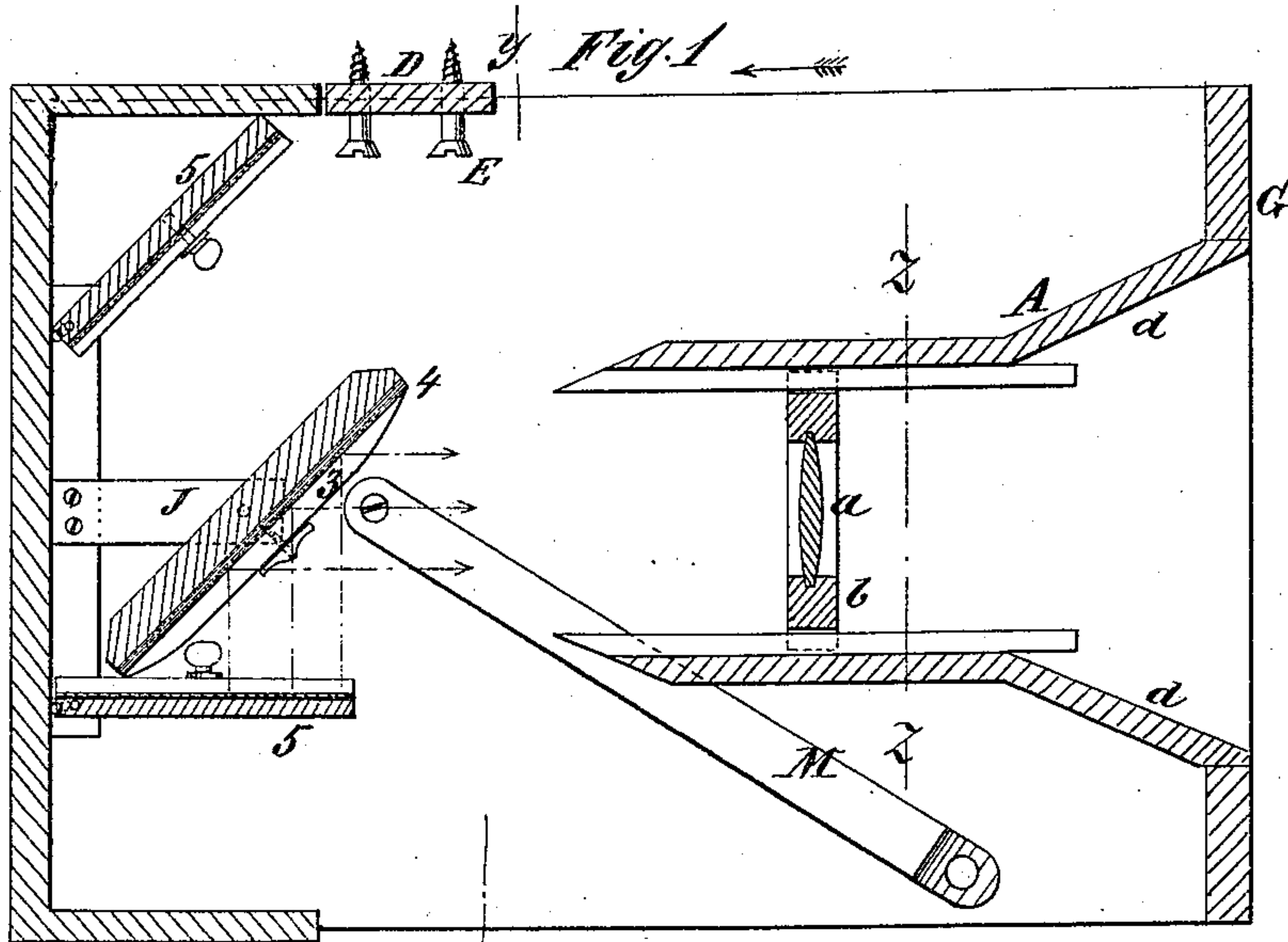


C. R. JENNE.  
SOLAR CAMERA.

No. 184,526.

Patented Nov. 21, 1876.



WITNESSES:

*H. W. Amqvist*  
*John Goethals*

INVENTOR:

*C. R. Jenne*

BY

*M. M. M.*  
ATTORNEYS.



# UNITED STATES PATENT OFFICE.

CHANCY R. JENNE, OF OKOLONA, MISSISSIPPI.

## IMPROVEMENT IN SOLAR CAMERAS.

Specification forming part of Letters Patent No. 184,526, dated November 21, 1876; application filed April 18, 1876.

*To all whom it may concern:*

Be it known that I, CHANCY R. JENNE, of Okolona, in the county of Chickasaw and State of Mississippi, have invented a new and Improved Solar Camera, of which the following is a specification:

My invention consists of a camera for taking and enlarging pictures from a photograph or any opaque object, and to be used by portrait-painters for making their drawings, the same being constructed and arranged as hereinafter described.

Figure 1 is a horizontal section of my improved instrument, taken on the line  $xx$  of Fig. 2. Fig. 2 is a sectional elevation taken on the line  $yy$  of Fig. 1. Fig. 3 is a section of the lens-tube, taken on the line  $zz$ ; and Fig. 4 is a detail of the contrivance for supporting and adjusting the lens.

The lens  $a$  is mounted on the upright piece or frame  $b$ , that slides in grooves inside the funnel-shaped tube  $A$ , the inner walls of which are parallel for four or five inches, and for the rest diverge to the right and left at  $d$ . This piece  $b$  is provided with a screw,  $B$ , on the back side, projecting down far enough to adapt it to enter a notch in rod  $e$ , Fig. 5. No. 3 is a cover over mirror No. 4. Said cover is provided with two springs,  $C$   $C$ , to hold a picture when one wishes to make a reversed drawing. Mirror No. 4 is provided with two wings or doors, one on each side. These wings stand, when in position, parallel to the lens, and at an angle of forty-five degrees to the mirror.

The picture is fastened to one of the wings No. 5 at forty-five degrees to the mirror No. 4, and is reflected in it, and is seen by the lens at right angles to it, and is reproduced in a darkened room on a screen, canvas, or paper for exhibition or drawing purposes, quite plain enough to draw it correctly.

The instrument is fastened to the window-sill, if it is not too low, or to the right or left side casing by the use of a strip of plank,  $D$ , which is fastened temporarily to the top and bottom edges of the instrument with screws, then to the side casing by screws  $E$ , so that the front side  $G$  is just even with the inside of the casing.

The window is provided with an opaque screen, with a square hole just large enough to receive the end of the projecting tube, side  $G$ . When using a south window in the morning, attach to the right casing, using the right wing No. 5, with mirrors  $H$  projecting at the left side, in position to illuminate the picture in the right-wing mirror. Mirror No. 4 is changed by pressing and turning the thumb-stud  $f$ , which liberates both from catch-bar by pushing down the spring-support  $J$ .

The beveled piece  $K$ , at the bottom of wings No. 5, is made vertically adjustable by means of a slot, screw-stud, and clamp-nut, to adapt it for holding pictures of different lengths.

A glass is sometimes used to retain the moisture in a picture, for some photographs reflect, when dry, a multitude of minute little brilliant specks, which are an annoyance to the one sketching.

Mirrors  $H$   $H^1$   $H^2$  are so arranged on support  $L$  and adjustable bed-piece  $M$  that they can be adjusted in any position that the case may require. In some cases the mirror has to stand with one corner the lowest, to make the illumination fall square on the photograph. The upper mirror is first adjusted by turning the stand, and the rest brought to it.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. The combination of the adjustable mirrors  $H$   $H^1$   $H^2$ , mirror 4, and the side wings 5, substantially as specified.
2. The catch 6, spring-support  $J$ , and thumb-stud  $f$ , combined with mirror 4, substantially as specified.
3. The cover 3, with spring  $C$ , attached removably to mirror 4, substantially as specified.
4. The adjustable picture-holding cleats  $K$ , combined with mirror 4, substantially as specified.

CHANCY R. JENNE.

Witnesses:

R. G. HUNTER,  
W. A. DANIEL.