

(No Model.)

T. H. BLAIR.

CAMERA PLATE HOLDER FOR HOLDING NEGATIVE PAPER.

No. 370,370.

Patented Sept. 27, 1887.

Fig. 1.

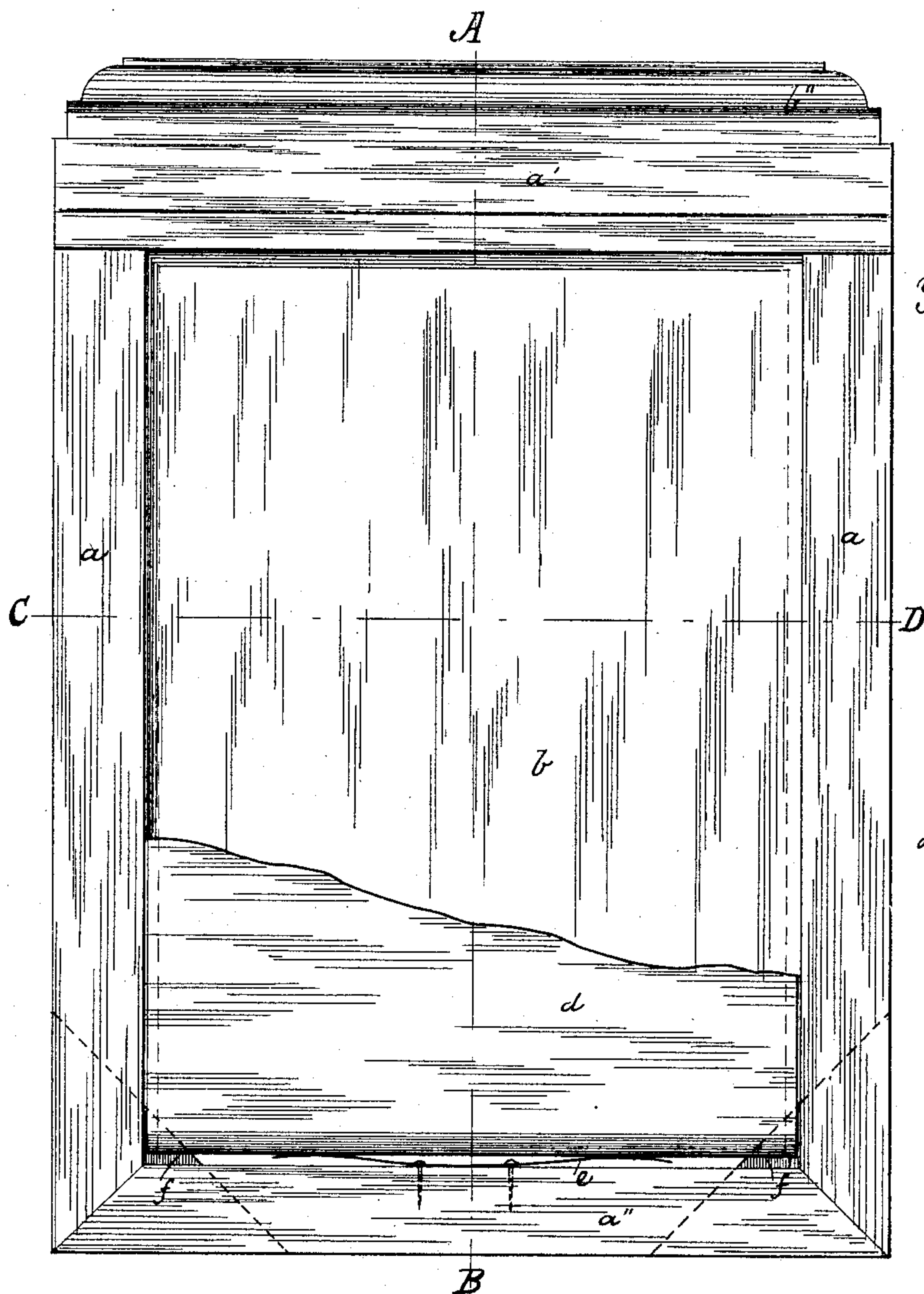


Fig. 2.

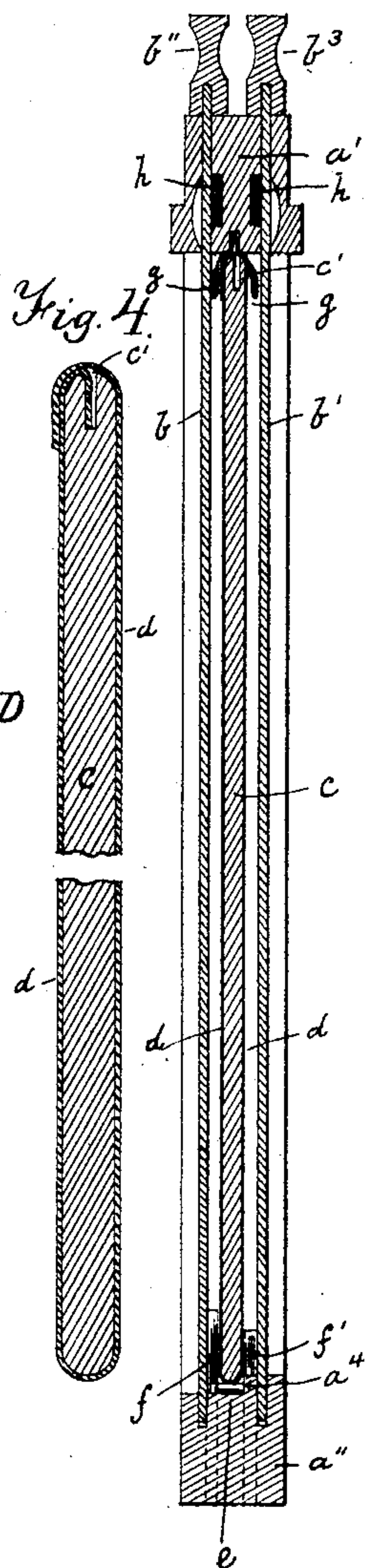


Fig. 4.

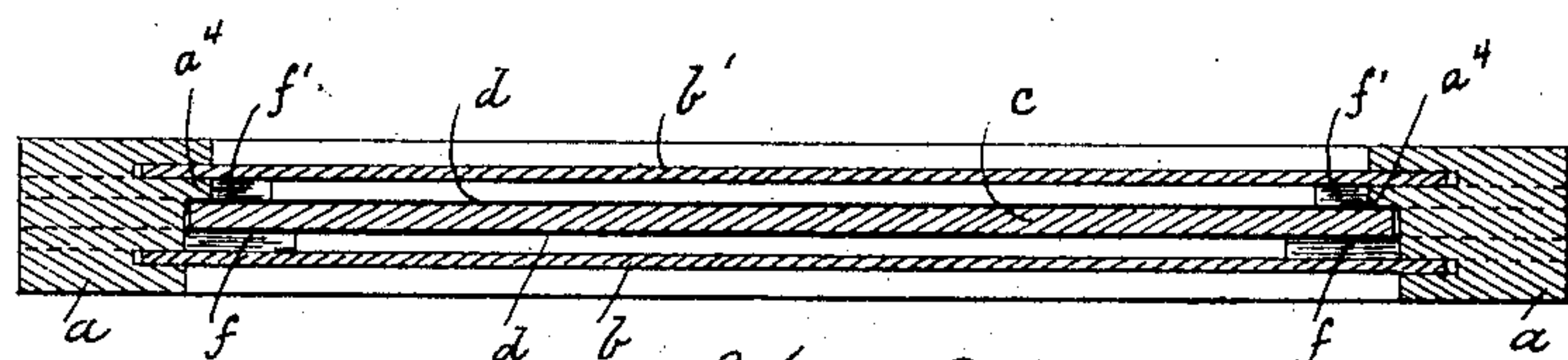
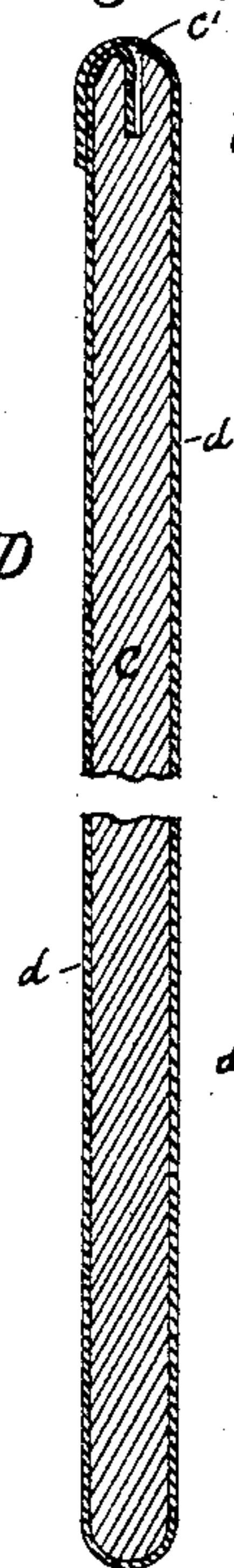


Fig. 3.

Witnesses.

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UNITED STATES PATENT OFFICE.

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CAMERA-PLATE HOLDER FOR HOLDING NEGATIVE-PAPER.

SPECIFICATION forming part of Letters Patent No. 370,370, dated September 27, 1887.

Application filed July 23, 1887. Serial No. 245,136. (No model.)

To all whom it may concern:

Be it known that I, THOMAS H. BLAIR, a citizen of the United States, and a resident of Boston, in the county of Suffolk and State of Massachusetts, have invented new and useful Improvements in Camera-Plate Holders for Holding Negative-Paper, of which the following, taken in connection with the accompanying drawings, is a specification.

This invention relates to improvements in plate-holders for holding negative-paper, and it is carried out as follows, reference being had to the accompanying drawings, where—

Figure 1 represents a front elevation of the invention, showing a portion of the slide as removed. Fig. 2 represents a vertical section on the line A B, shown in Fig. 1. Fig. 3 represents a cross-section on the line C D, also shown in Fig. 1; and Fig. 4 represents an enlarged longitudinal section of the plate to which the negative-paper is attached.

Similar letters refer to similar parts wherever they occur on the different parts of the drawings.

The plate-holder frame is composed of the side pieces, *a a*, the bottom piece, *a'*, and top or head piece, *a''*, as shown, secured together in such a manner as to form a square or rectangular inclosure that is open from front to rear, and is without any stationary diaphragm or division-wall. The head *a''* is slitted for the reception of the slides *b b'*, which are guided in grooves in the interior portions of the bottom and side pieces, *a' a*, as is common in camera-plate holders.

b'' b''' are the bars or handles, secured in a suitable manner to the upper projecting ends of the slides *b b'*, as shown in Figs. 1 and 2.

c in Figs. 2, 3, and 4 is the plate to which the sheet of negative-paper *d* is temporarily secured, and for this purpose I make a slit or groove, *c'*, in one end or side of such plate *c*, as shown in upper end of Fig. 4, and in such slit I introduce one end of the negative-paper *d*, which is afterward wrapped smoothly around the two opposite sides of the said plate *c* and carried far enough to lap over the slitted portion *c'*, as shown in Fig. 4, thus providing the plate *c* with a sensitive negative-paper surface on two of its sides for the taking of two different exposures.

To the interior portion of the bottom piece,

a'', of the plate-holder frame I secure a metal spring, *e*, for holding the plate *c* in position when introduced in the plate-holder, as shown in Figs. 1 and 2.

At the junction of side pieces, *a a*, and bottom piece, *a'*, I insert in miter slits made through such parts the veneers *f* and *f'*, a portion of which projects inside of the parts *a* and *a'* and serves as guides between which the lower end of the plate *c* is inserted and held in its proper place, as shown in Figs. 1, 2, and 3.

Between the slides *b* and *b'*, I make on the interior of the frame *a a'*, nearest to the slide *b'*, a rib or projection, *a^t*, that serves as a rigid bed or support for the plate *c* when inserted within the holder, as shown in Figs. 2 and 3, and the said bed or rib *a^t* also serves to prevent the light on the side of the negative-paper that is being exposed from passing to the opposite side of such negative-paper.

In a slit in the under side of the top piece, *a'*, of the plate-holder frame I secure a pair of flexible cloth or rubber flaps, *g g*, (shown in Fig. 2,) which, when the slides are drawn, serve to close the slits in the top piece, *a'*, as is common in plate-holders.

h h are suitable packings arranged in grooves in the head or top piece, *a'*, for preventing the light from entering through the slits in the said top piece, *a'*, when any of the slides are drawn out in the usual manner.

In using this my improved plate-holder I proceed as follows: After having secured the negative-paper *d* to the two opposite sides of the plate *c*, I draw out the slide *b* and insert the lower end of the plate *c* in the space between the lower projections, *f f'*, with its lower edge resting on the yielding spring *e*, and depress the latter until the upper end of the plate *c* will pass below the interior lower portion of the top piece, *a'*, when I press the plate *c* into the holder until one of its sides is made to rest against the rib or ridge *a^t*, as shown in Figs. 1, 2, and 3, when the plate *c* will be held firmly in position, as shown in Figs. 1 and 2, by the spring *e* pressing its upper end with a proper frictional resistance against the under side of the head *a'*, after which the slide *b* is closed, as shown.

In this manner I produce a very light and durable double plate-holder having a central

plate provided with sensitive negative-paper on two of its opposite sides, as shown and described. After the negative-paper has been exposed in a camera as usual and the plate-holder
 5 taken to the dark room, I withdraw the slides *b b'* and remove the plate *c* and its paper *d* simply by moving the upper end of said plate a little to the left (in Fig. 2) until it comes to one
 10 side of the head-piece *a'*, after which it can easily be drawn out of the plate-holder and the paper removed from the plate *c* and another strip put on it, and so on.

Having thus fully described the nature, construction, and operation of my invention, I
 15 wish to secure by Letters Patent, and claim—

1. In a plate-holder for negative-paper, the plate *c*, having a slit, *c'*, in one of its ends or sides adapted to receive one of the ends of the
 20 negative-paper *d*, combined with the latter wrapped around it, as and for the purpose set forth.

2. The frame *a a' a''*, open from side to side and provided with the slides *b b'*, and having lower guides, *f f'*, the rest or rib *a'*, and spring *e*, combined with the detachable
 25 plate *c*, having a slit, *c'*, in one of its sides or ends for securing to it the negative-paper *d*, as and for the purpose set forth.

3. The frame *a a' a''*, open from side to side and provided with slides *b b'*, combined with
 30 the detachable plate *c*, upon which the negative-paper is wrapped or secured on both sides of said plate, for the purpose set forth.

In testimony whereof I have signed my name to this specification, in the presence of
 35 two subscribing witnesses, on this 12th day of July, A. D. 1887.

THOMAS H. BLAIR.

Witnesses:

ALBAN ANDRÉN,
 HENRY CHADBURN.