

(No Model.)

W. H. LEWIS & E. B. BARKER.

CAMERA.

No. 307,965.

Patented Nov. 11, 1884.

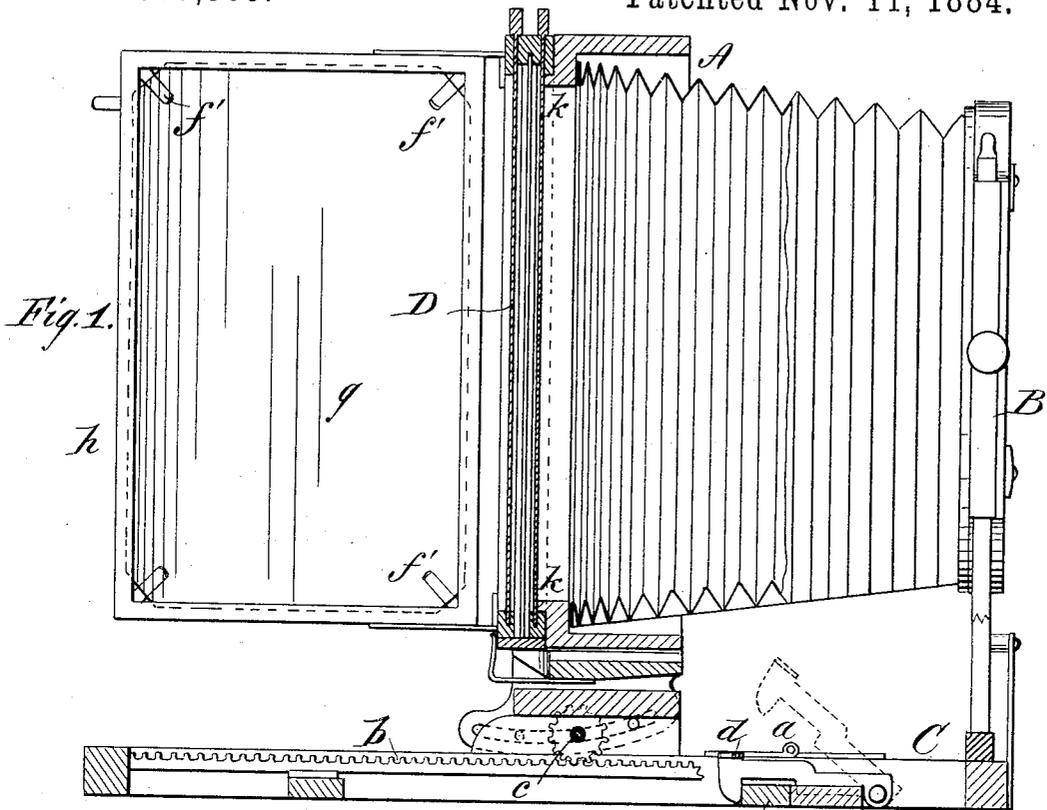


Fig. 1.

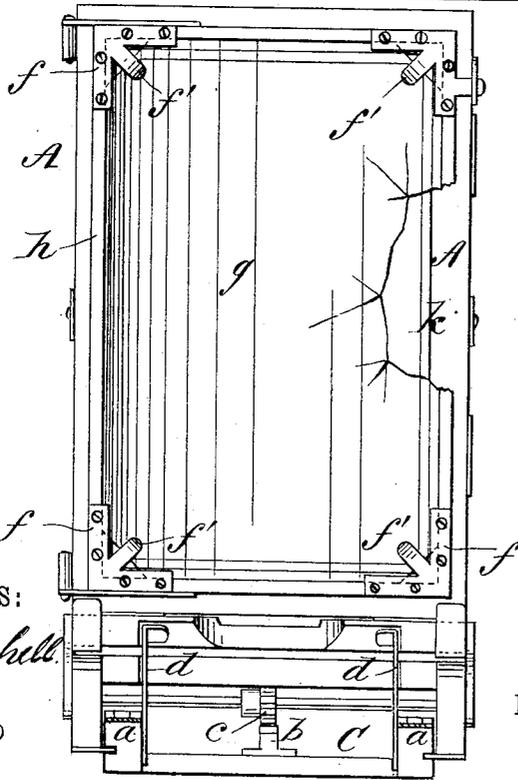


Fig. 2.

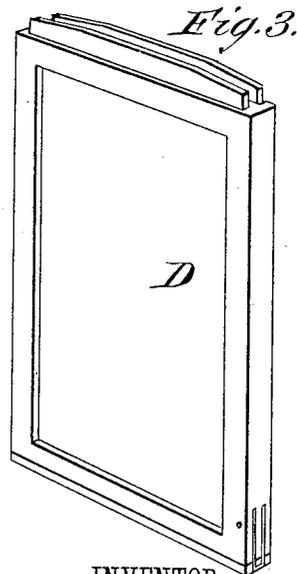


Fig. 3.

WITNESSES:

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CAMERA.

SPECIFICATION forming part of Letters Patent No. 307,965, dated November 11, 1884.

Application filed May 2, 1884. (No model.)

To all whom it may concern:

Be it known that we, WILLIAM H. LEWIS and ERASTUS B. BARKER, both of the city, county, and State of New York, have invented certain new and useful Improvements in Cameras, of which the following is a full, clear, and exact description.

Our invention consists in certain novel features of construction having the object to produce a lighter and more convenient instrument than heretofore made.

The improvements relate particularly to the folding bed, to the means for securing the object-glass in place, and to the construction of the box, all as hereinafter described and claimed.

Reference is to be had to the accompanying drawings, forming part of this specification, in which similar letters of reference indicate corresponding parts in all the figures.

Figure 1 is a longitudinal section of a camera of the improved construction with the plate-holder in place. Fig. 2 is a rear elevation of the camera with the object-glass partially broken away, and Fig. 3 is a perspective view of a plate-holder as made for use with this instrument.

In their general construction the box A, the lens-frame B, and bed C, on which the box slides, are as usual in cameras of this class. The bed-frame C is hinged at *a*, so as to fold up compactly behind the box for convenience of transportation, and it is fitted with the rack *b*, that is engaged by the pinion *c* on the box for adjustment of the latter.

For holding the bed firmly in its horizontal position the hooks *d d* are provided, these being pivoted on the sides of the frame at each side in position for being turned down upon and over the cross-bar *e*.

As shown most clearly in Fig. 1, the pivots of the hooks *d* are in front of and below the hinges *a*, while their ends taking over the bar *e* are behind the hinges, so that any tendency of the bed to rise causes a clamping or binding action that prevents such rise. The

hooks can be easily raised when the bed is to be folded up.

The second feature of invention relates to the corner-clamps *f*, by which the object-glass *g* is held in the frame *h*. These corner-clamps have each a spring-tongue, *f'*, projecting upon the glass at the outside, so as to press the same firmly into the rabbet of the frame and thus prevent any looseness of the glass. With these clamps glass of any thickness may be used without regard to the depth of the rabbet, as the clamps will accommodate themselves to the glass.

The third feature of improvement has the object to reduce the weight and allow the use of plate-holders of more simple construction than heretofore employed. Usually the plate-holder is ribbed and the edges of the box grooved to receive the rib, so as to prevent movement of the holder, and that construction requires material of considerable thickness in both the box and holder.

As shown in the drawings, a rib, *k*, or projecting flange is formed at the inner edges of the box-frame, and the opening in holder D is of a size to fit outside the rib *k*, so that when the holder is put in place the rib passes into the opening. It will be seen that with this construction the opening in the holder-frame is relatively larger than that of the box, and the thickness of material correspondingly reduced, and, further, that the holder-frame is of plain construction.

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

1. In a camera having a hinged or folding bed, the means, substantially as described, for holding the bed in position for use, consisting of hooks pivoted below the hinge, so as to bind the parts as specified.

2. In a camera, the combination of hooks *d d* with hinged bed-frame C, substantially in the manner and for the purpose specified.

3. In a camera the corner-clamps, *f*, formed with tongues *f'*, combined with the object-glass

and frame, substantially as and for the purpose specified.

4. In a camera, the combination, with the object-glass and frame, of spring holding-clamps, substantially as described.

5. The camera-box having a rib or flange, *k*, at the edges of the opening, combined with a plate-holder having an opening large enough to receive the rib, as specified.

6. A camera-box made with a rib or flange to adapted to enter the opening of the plate-holder for retaining the holder in place, as specified.

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Witnesses:

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