

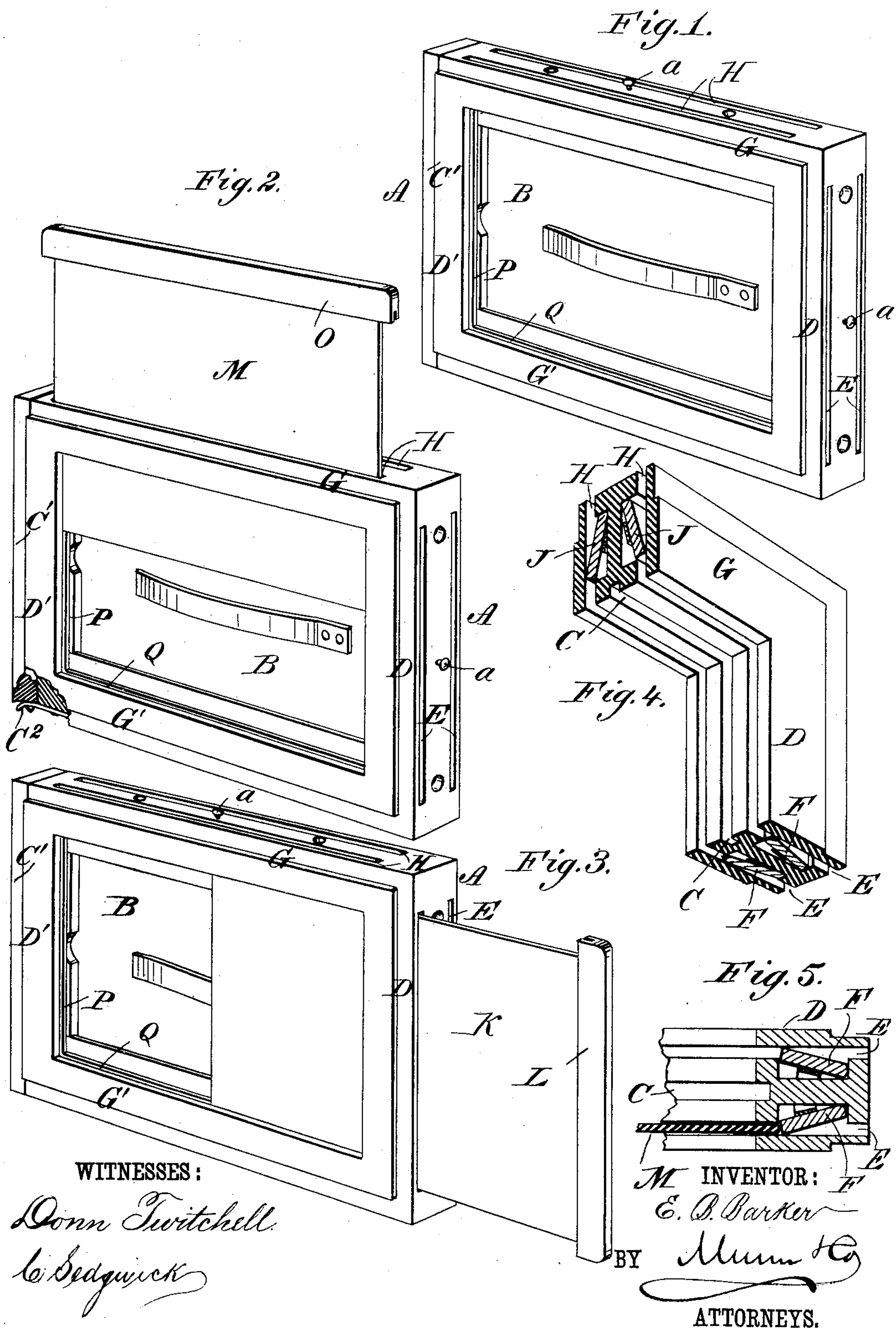
(Model.)

E. B. BARKER.

PHOTOGRAPHIC PLATE HOLDER.

No. 255,566.

Patented Mar. 28, 1882.



UNITED STATES PATENT OFFICE.

ERASTUS B. BARKER, OF NEW YORK, N. Y., ASSIGNOR TO E. & H. T. ANTHONY & CO., OF SAME PLACE.

PHOTOGRAPHIC-PLATE HOLDER.

SPECIFICATION forming part of Letters Patent No. 255,566, dated March 28, 1882.

Application filed December 31, 1881. (Model.)

To all whom it may concern:

Be it known that I, ERASTUS B. BARKER, of the city, county, and State of New York, have invented a new and Improved Photographic-Plate Holder, of which the following is a full, clear, and exact description.

The object of my invention is to provide a plate-holder into which the slides or covers can be inserted or withdrawn either vertically or sidewise.

The invention consists in a photographic-plate holder constructed with slide apertures or slots both at the sides and ends, whereby a slide may be inserted either at the side or end of the plate-holder, as desired.

The invention also consists in a novel arrangement of the cut-offs and the slides, whereby the cut-offs serve to guide the slides, all of which improvements will be carefully described.

My invention is equally applicable to both single and double plate holders. It will be herein shown as applied with a double-plate holder—that is, a holder adapted to carry two sensitive plates.

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 perspective view of my improved plate-holder, showing all the slides or covers removed. Fig. 2 is a perspective view of the same, showing one of the vertical or side slides or covers partially withdrawn. Fig. 3 is a perspective view, showing one of the end slides or covers partially withdrawn. Fig. 4 is a sectional perspective view of one corner of the plate-holder frame with the cut-off strips. Fig. 5 is a cross-sectional elevation of a portion of the plate-holder frame, showing the manner in which the cut-offs guide the slide moving in a direction parallel therewith.

The plate-holder A is adapted to be used with a camera-box in the ordinary manner. It is also adapted to receive a septum, B, of the ordinary construction, sliding in grooves C of the plate-holder frame. This septum is provided with an end stop, C', provided at one end with a stud, which is adapted to catch on a spring-catch, C², of the plate-holder frame, and thus lock the septum in the plate-holder.

The plate-holder frame is provided in the end D (opposite that end through which the septum is inserted) with two longitudinal apertures or slots, E, extending through the end piece of the frame, each set of slots containing cut-offs F, of the ordinary construction. The upper longitudinal bar, G, of the plate-holder frame is provided with two longitudinal slots, H, extending through the bar, and each containing a cut-off, J, of the ordinary construction. End slides, K, each provided at the outer end with a stop, L, are adapted to be passed sidewise through the slots E into the plate-holder, the longitudinal edges of the end slides being guided in the slots H, and by the lower edges of the cut-off strips J, which at the same time exclude the light at the upper longitudinal edge of these end slides or covers.

Side slides or covers, M, each provided at the outer edge with a stop, O, are adapted to be passed through the slots H into the plate-holder, the side edges of these side slides, M, being guided by the slots E and by the cut-off strips F. The end piece, D', and the bottom longitudinal bar, G', must be provided with grooves P and Q, coinciding with the slots E and H. As the slots E and H are arranged along the edges of the frame of the plate-holder a slide can cover each face of the septum B, which is between two slides; but a plate-holder with a single slide can also be constructed in the manner shown.

As may be desired, the end slides, K, or the side slides, M, can be used with the plate-holder, or an end slide, K, may cover one surface of the septum and a side slide, M, may cover the other surface.

If the camera-box and the plate-holder A are adjusted with the longitudinal axis in the horizontal plane, the end slides, K, are to be used, as they can be withdrawn sidewise very conveniently. If the camera-box and the plate-holder A are adjusted with the longitudinal axis in a vertical position, the side slides, M, are to be used, as they can be withdrawn sidewise very conveniently when the camera-box stands vertically. Thus, if my improved plate-holder is used, the slides or covers never need to be withdrawn vertically—that is, from the top of the camera. It is very difficult to withdraw a

slide or cover vertically from a large camera, especially in the field and on a windy day, and very often the position of the camera is changed and the picture spoiled by the attempts to withdraw a large slide or cover vertically. All these defects are avoided by my improved plate-holder.

If the side slide, M, has been passed into the plate-holder in the dark room, and if the end slide, K, is to be used, the slides can be conveniently changed in the field by placing the plate-holder upon the camera-box, then closing the lens, and then withdrawing the side slide and replacing it by an end slide, or, vice versa, an end slide can be replaced by a side slide in the field in the manner described.

I do not limit or confine myself to the exact form or position of any of the parts herein mentioned, as they may be varied without departing from my invention.

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

1. A photographic-plate holder made, substantially as herein shown and described, with slide apertures or slots both at the sides and ends, whereby a slide may be used either at the side or end of the plate-holder, as described, and as set forth.

2. The frame of the plate-holder A, constructed with end apertures or slots, E, and grooves Q, for the reception of an end slide, K, and with side apertures or slots, H, and grooves P, for the reception of a side slide, M, substantially as herein shown and described, and for the purpose set forth.

3. The combination, in a photographic-plate holder, of an end cut-off and slide and a side

cut-off and slide, substantially as herein shown and described, and for the purpose set forth.

4. The combination, with a photographic-plate holder provided with a slide-receiving slot which contains a cut-off in one of the edges, of a cut-off at right angles to the slotted edge and parallel with the direction of the movement of the slide, whereby the slide will be guided by this cut-off parallel with the direction of the movement of the slide, substantially as herein shown and described, and for the purpose set forth.

5. In a photographic-plate holder, the combination of the following elements, namely: a grooved and slotted frame with cut-offs and slides adapted to permit the insertion of a vertically-movable slide and a horizontally-movable slide, substantially as herein shown and described, and for the purpose set forth.

6. In a photographic-plate holder, the combination of the following elements, namely: a grooved and slotted frame with cut-offs and slides adapted to admit the insertion of two vertically-movable slides and two laterally-movable slides, substantially as herein shown and described, and for the purpose set forth.

7. In a photographic-plate holder, the combination of the following elements, namely: a plate-holding septum, a grooved and slotted frame with cut-offs and slides adapted to permit the insertion of a vertically-movable and a horizontally-movable slide, substantially as herein shown and described, and for the purpose set forth.

ERASTUS B. BARKER.

Witnesses:

C. SEDGWICK,
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