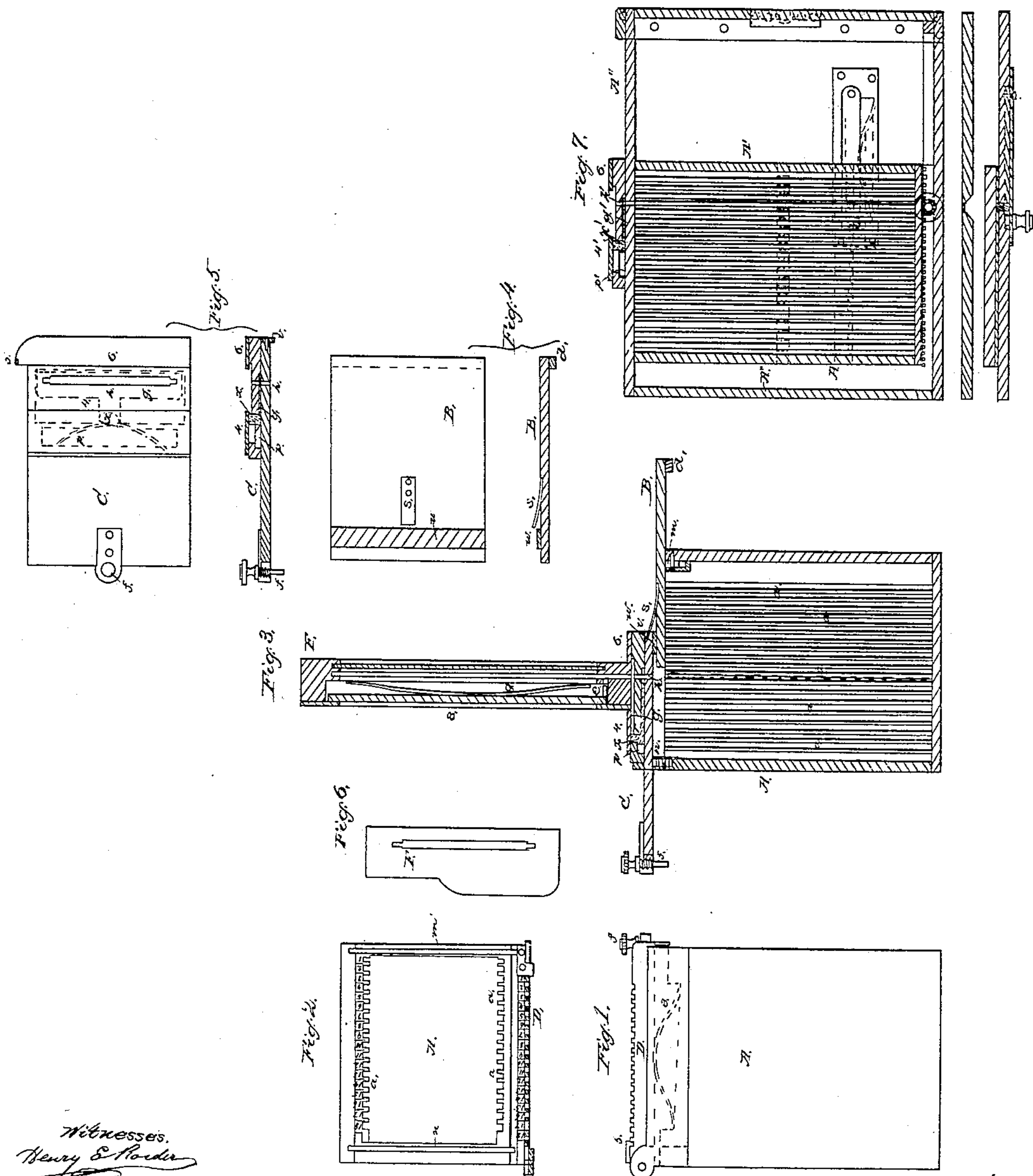


J. & J. STOCK.
CAMERA ATTACHMENT.

No. 33,500.

Patented Oct. 15, 1861.



Witnesses.
Henry S. Porter
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UNITED STATES PATENT OFFICE.

JOHN STOCK AND JAKOB STOCK, OF NEW YORK, N. Y.

IMPROVEMENT IN BOXES FOR DRY PHOTOGRAPHIC PLATES.

Specification forming part of Letters Patent No. 33,500, dated October 15, 1861.

To all whom it may concern:

Be it known that we, JOHN STOCK and JAKOB STOCK, of New York, in the county and State of New York, have invented a new and Improved Box for Prepared Dry Photographic Plates; and we hereby declare that the following is a full and exact description of the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon.

Figure I represents an outside view; Fig. II, a top view with the covers removed; Fig. III, a section with the plate-holder attached to receive the glass or plate, and the other figures details referred to below.

The nature of our invention consists in the construction of a box for prepared dry photographic plates in such a manner that any one plate may be passed from said box into the plate-holder without danger or possibility that the external light will be admitted to said plate or plates or during the operation of transferring a plate from the box to the plate-holder.

In the accompanying drawings, A represents a box with grooves *a* on opposite sides on the inside to hold the prepared plates. In the top of this box two movable slides or covers B and C are made to work in suitable grooves in the sides, the ends of the covers being kept tight, so as to prevent the admission of the light, by small pieces of wood *n* and *m*, (see Figs. II and III,) arranged on the ends of the box A, covered with cloth or any soft substance, and forced upward by suitable springs.

The cover B is provided with a projection *d* on its lower side to prevent its being put in farther than required, while the upper cover C, after the same is in its place, has a screw-bolt *f* fastened in its end to prevent its being drawn or pulled out. On the other end of the cover C a very small projection *v* is provided on the under side. The cover B has a small projection *w* on its upper side as well as a small spring *s*, (see Figs. III and IV,) between which said projection *w* and spring *s* the projection *v* of the cover C fits, for the purpose hereinafter described.

Near one end of the cover C a suitable opening *h*, Figs. III and V, is provided for the passage of the glasses or plates. This opening *h* is covered with a slide *g*, (shown in red lines in Figs. III and V,) provided with a pro-

jecting piece or nose *x* and acted upon by a spring *p*.

On one side of the box A a hinged rod D is provided capable of moving downward and kept upward through the action of a spring *3*. This rod D is provided on its upper side with notches corresponding with the grooves in the box A, which hold the plates, and said notches are marked or numbered to correspond with the numbers of said grooves. On the end of the cover C a projection or nose *5* is provided fitting into the notches of this rod D, the whole being arranged in such a manner that in whatever notch on the rod D this nose *5* is moved the opening *h* in the cover C will thereby be brought over the plate or glass in the correspondingly-marked groove in the box A.

On the lower end of the plate-holder F a projection or nose *r* (see Figs. III and VI) is arranged.

The operation to pass a plate or glass from the box into the plate-holder is as follows: The cover C is pulled back until the projection *v* at its end passes the spring *s* and comes against the projection *w* of the cover B, between which the said cover C is then locked to the cover B, when both covers are together moved until the nose *5* on the end of the cover C comes into that notch in the rod D corresponding to the groove *a* of the box A which contains the plate which is required to be passed into the plate-holder. The plate-holder F is then placed upon the cover C by being passed under the projecting plates 4 and 6, fastened to the top of said cover. (See Figs. III and V.) The projection *r* on one side of the end of the plate-holder comes then against the projection or nose *x* of the slide *g* and pushes said slide *g* back, so as to uncover the opening *h* in the cover C. The back *8* of the plate-holder F is then loosened, and is then by means of its spring *g* pressed back, bringing at the same time a projection *e* at the bottom of said back *8* clear of the opening. By turning the box together with the plate-holder over the plate will slide out of the box into the plate-holder without any possibility of light being admitted during the operation. The back *8* of the plate-holder is then fastened by suitable wedges in the usual manner, whereby the plate is held fast in its place in the plate-holder, and at the same

time the projection *e* will be moved over the opening in the bottom of the plate-holder, excluding thereby all light from the inside of said plate-holder. The box and plate-holder are then turned over again, when the plate-holder can be removed. At the time the plate-holder is removed from the box or from the cover *C* the projection *r* will come clear of the nose or projection *x* of the slide *g*, which latter will then be acted upon by the spring *p*, so as to force said slide over the opening *h*, and consequently prevent all admission of light to the inside of the box *A*.

Instead of arranging the box *A* with movable covers, as above described, the same may be placed in another box *A''*, (see Fig. VII,) provided with a rack and pinion on the bottom of the inner box *A'*, whereby the same can be moved back and forth. A suitable opening *h'* is in that case provided in the top of the box *A''*, covered over by a slide *g'*, constructed similar to the slide *g* above described and acted upon by a suitable spring to keep the same close over this opening *h'*, and operated by the introduction of the plate-holder in the manner above mentioned.

What we claim as our invention, and desire to secure by Letters Patent, is—

1. The arrangement of a box with movable covers, in combination with suitable cross-pieces *n* and *m*, acted upon by springs to exclude the light from the inner side of said box, constructed in the manner and for the purpose set forth.

2. The arrangement of the projection *w* at the end of the upper cover, in combination with the projection *v* and spring *s* on the lower cover, in the manner and for the purpose specified.

3. The slide *g*, covering the hole *h* for the passage of the plate or glass, operated and arranged in the manner and for the purpose set forth.

4. The hinged lever or arm *D*, provided with notches and operated by the spring *3* in the manner and for the purpose described.

5. The projection *x* on the side of the plate-holder, acting upon and operating the slide covering the hole in the top cover in the manner and for the purpose substantially as described and set forth.

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