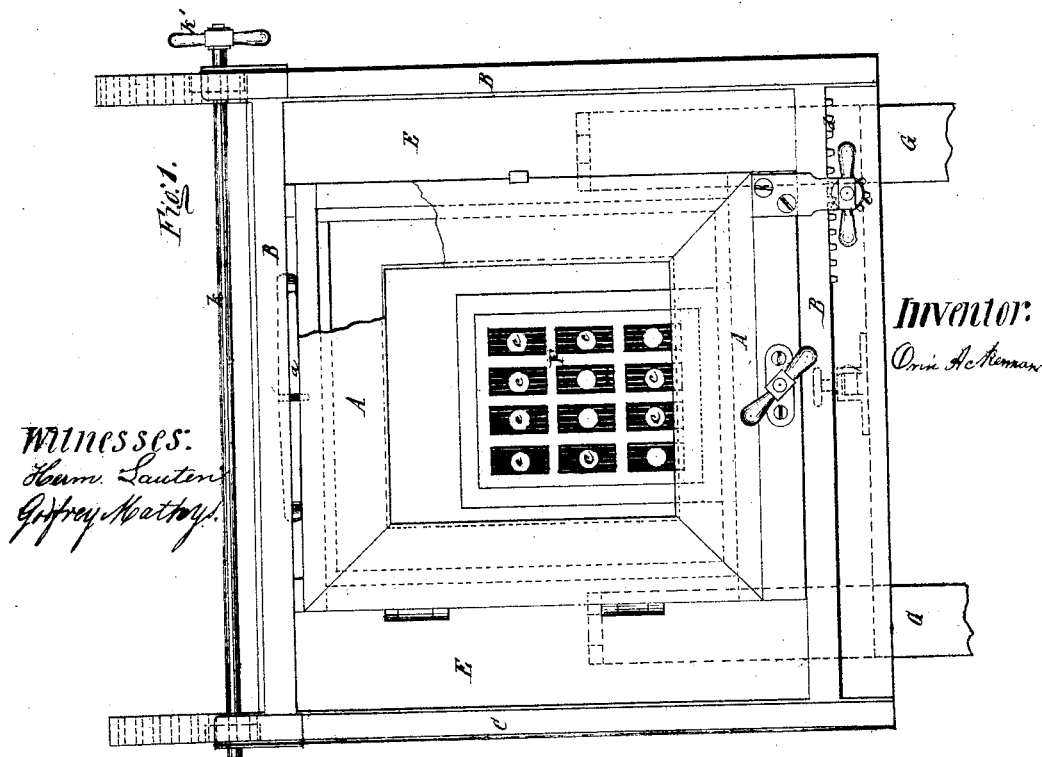
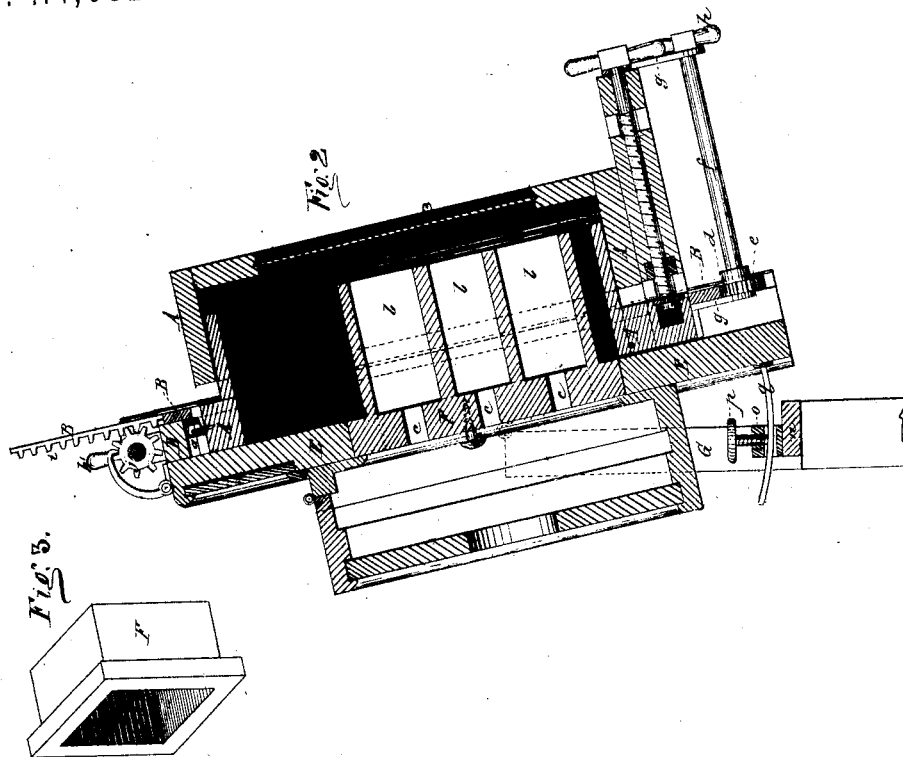


O. ACKERMAN.  
 Improvement in Supports for Camera-Boxes.  
 No. 114,082. Patented April 25, 1871.



Witnesses:  
 Harn. Lauter  
 G. H. H. H. H.

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# United States Patent Office.

ORIN ACKERMAN, OF CARTHAGE, NEW YORK.

Letters Patent No. 114,082, dated April 25, 1871.

## IMPROVEMENT IN SUPPORTS FOR CAMERA-BOXES.

The Schedule referred to in these Letters Patent and making part of the same.

*To all whom it may concern:*

Be it known that I, ORIN ACKERMAN, of Carthage, in the county of Jefferson and State of New York, have invented a new and improved Camera-Box; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawing making a part of this specification, in which—

Figure 1 is a front elevation;

Figure 2, a transverse section; and

Figure 3 is a perspective view of one variety of the independent box.

My invention relates to an improved mechanism for supporting and adjusting the pitch of camera-boxes, as hereinafter described.

The mechanism is shown applied to a box whose construction is set forth, but to which I lay no claim in this application.

Referring to the drawing—

A is a camera-box.

B is a four-sided metal frame, placed in guides, C, that are secured to the edges of flanges that spring from the sides of a wooden supporting plate, E. The box A rests on the lower rail of the frame B, and a spring, *a*, secured to the upper side of the box, and bearing on the inside of the upper rail of the frame B, holds the box A in the frame. Inside of the box A, in an orifice of the plate E, is placed an independent box, F, which is divided into compartments, *b*, through the front side of each of which is made an orifice, *c*, through which rays of light from the sitter pass to the sensitized plate in rear of the independent box and within the box A.

The box F remains stationary, and, after each exposure, the box A may be moved either sidewise or upward or downward, so as to bring fresh portions of the sensitized plate in rear of the box F and enable additional pictures to be taken upon it at the same sitting, till the whole surface of the sensitized is covered. By this method there is no limit, except the dimensions of the box A, to the multiplication of the same picture at the same sitting.

For taking larger pictures the box F should be replaced with one having larger chambers, or having but one chamber.

The box A is moved from side to side in the frame B by means of a rack, *d*, formed on the lower rail of

the latter, and a pinion, *e*, engaging with said rack and placed on a shaft, *f*, that is supported in lugs, *g*, that extend downward from the box A, the shaft *f* being furnished with a handle, *h*, for convenience in turning it.

The box A is moved upward and downward by moving the frame B itself in the guides C, by means of racks *i* formed in the side rails of said frame and pinions *j* gearing with said racks, and placed on a shaft, *k*, that is mounted in lugs that spring from the upper side of the plate E, the shaft *k* being furnished with a handle, *l*, and there being a pawl, *l*, hinged to the plate E, that is used for stopping the pinions *j* at any desired point.

I do not wish to confine myself to the mechanism here described for operating what I consider mine broadly—*i. e.*, a movable camera-box.

In fig. 2 *m* is a mirror secured to the back side of the plate E, for the purpose of enabling the operator to watch the image of the sitter and govern himself accordingly, without turning his face toward the sitter and thus distracting his attention and spoiling the pose.

G represents legs, which are jointed at their upper ends to the rear side of the plate E, and which are connected by a cross-bar, *n*, to the upper side of which cross-bar is secured a socket, *o*, in the upper rail of which a set-screw, *p*, sits. A curved bar, *q*, extending from the back side of the plate E, passes through the socket *o*, and may be clamped therein at any point by the set-screw *p*.

By this arrangement I form a support for the camera-box on which it may be swung almost instantaneously in a vertical plane to suit the height or position of the subject, and secured at the desired inclination with equal facility and dispatch. Screws may be put through the bar *n*, to secure the box to any suitable stand or support.

Having thus described my invention,

What I claim as new, and desire to secure by Letters Patent, is—

In combination with the plate E the legs G, cross-bar *n*, socket *o*, bar *q*, and set-screw *p*, as explained.

ORIN ACKERMAN.

Witnesses:

THOS. D. D. OURAND,  
CHAS. A. PETTIT.