(No Model.) 2 Sheets—Sheet 2.

J. H. ALTHEIDE.

CAMERA STAND.

No. 280,776. Patented July 10, 1883.

Fig2.

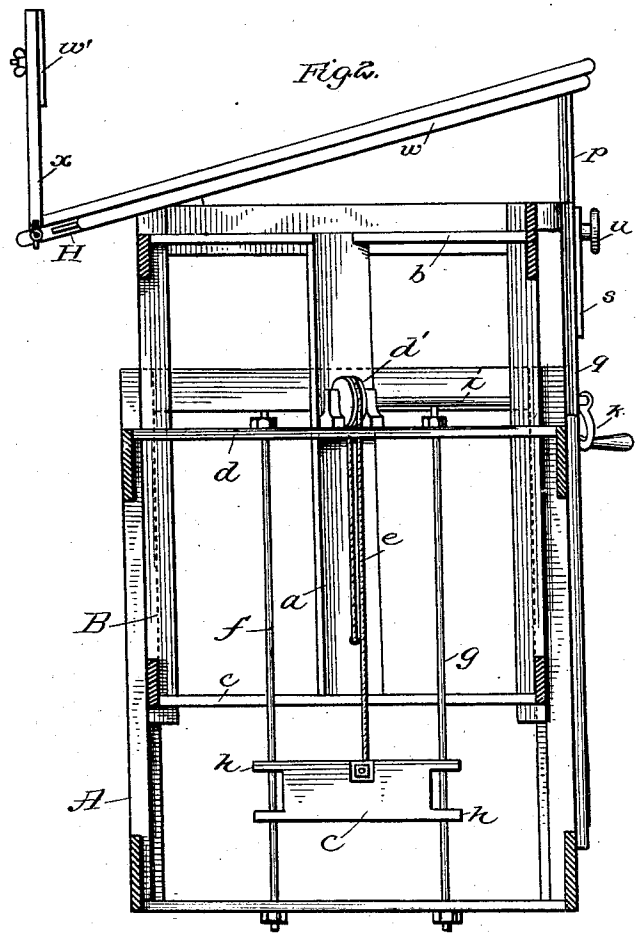


Fig3.

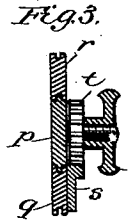
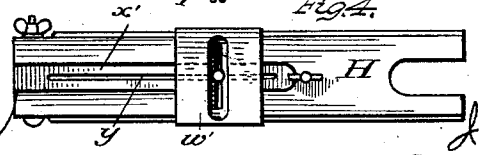


Fig4.



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UNITED STATES PATENT OFFICE.

JOSEPH H. ALTHEIDE, OF QUINCY, ILLINOIS.

CAMERA-STAND.

SPECIFICATION forming part of Letters Patent No. 280,776, dated July 10, 1883.

Application filed December 12, 1882. (No model.)

To all whom it may concern:

Be it known that I, JOSEPH H. ALTHEIDE, of Quincy, in the county of Adams and State of Illinois, have invented a new and useful Improvement in Camera-Stands; and I do hereby declare that the following is a full, clear, and exact description of the same.

My invention relates to improvements in stands for supporting photographic cameras; and it consists, partly, in an improved arrangement for adjusting the height of the table and changing its inclination, the mechanism for accomplishing these purposes being within convenient reach of the operator, so that he can obtain the correct focus without leaving his position or removing the focusing-cloth. It further consists in an improved extension-slide running in grooves below the table supporting a copying-frame.

In the accompanying drawings, Figure 1 is a perspective view of the entire stand; Fig. 2, a cross-section, showing the weight and its connections. Figs. 3 and 4 represent details.

My improved camera-stand is composed of two rectangular frames, A B, formed of corner-posts, top and bottom rails mortised therein, and intermediate cross-braces. In the corner-posts of the frame A are formed ways, and in these ways slide the corner-posts of the frame B. The frame B is guided in its vertical movement by a strip, *a*, stepped in cross-pieces *b c* of said frame A, the said strip being set at an angle to the direction of the sides of the frame. This strip *a* passes through a slot in a platform, *d*, which connects two of the cross-braces of the frame A. The frame B is thus guided in its vertical movement. The frame B is counterbalanced (except when elevated, as hereinafter described) by a weight, C, secured by a rope, *e*, to the strip *a*, such weight being guided in its movement by rods *f g*, passing through holes in ears or flanges *h*.

Mounted on suitable journal-bearings in the platform *d* is a friction-pulley, *d'*, set at the same angle as the strip *a*, and bearing on the face of such strip. The rope *e* of weight C passes over this pulley. On the side of strip *a*, opposite the friction-pulley, is fixed a rack, D, in which meshes a pinion, E, mounted on the end of a shaft, *i*, which extends diagonally outward, and is journaled in one of the cross-pieces of the frame A. At its outer end is a crank, *k*, and a pawl and ratchet, *l m*, the crank being within easy and convenient reach of the operator, so that it can be turned by him without changing his position or removing the focusing-cloth. The pinion E and pulley *d'* bear upon the strip *a* on opposite sides, and together prevent any tendency on the part of said strip to bend and bind in the slot in which it works.

The table-top is hinged to the frame B at *o*, and at its forward end is hinged the guide-strip *p*, which slides vertically in a way formed by cleats *q r*, secured to frame B. On the cleat *q* is a rack, *s*, in which meshes a pinion, *t*, secured on a short pin provided with a handle, *u*. This handle is directly in front of the operator when "focusing." A brake, *v*, is also provided, which bears against one of the corner-posts of the inner frame, B.

The extension-slide is shown at H. It runs in a way formed by two strips, *w x*, below the table, and in its end is removably pivoted the arm *x'*, which can be folded into a slot in the slide H, when such slide is below the table. The copying-plate *w'* is adjustably secured in a slot, *y*, of the arm *x'*, and is itself provided with a transverse slot, *z*, and with a set-screw, by which it can be set at any angle.

As shown in Fig. 3, the handle *u*, to which the pinion *t* is attached, is mounted on a screw-shaft, so that it can be moved in or out. When forced inward against the strip *p*, it holds the top at any angle by friction, and on being slightly loosened the top can be dropped by gravity, and checked at any point by a turn of this handle.

Having described my invention, I claim—

1. The combination, with the square frame A, having the corner-posts provided with ways, of the sliding frame B, the platform *d*, and the central guiding-strip, *a*.

2. The combination of the frames A B, the platform and guiding-strip, and the friction-roller.

3. Combined with the frame A, having the diagonally-slotted platform, the sliding frame B, having the guide-strip *a*, adapted to such slot.

4. The combination of the frames A and B, the guiding-strip, the rack and pinion, and the pawl and ratchet.

(No Model.)

P. ARNAUD & L. GAYETTE.

STEELYARD.

No. 280,779. Patented July 10, 1883.

Fig. 1.

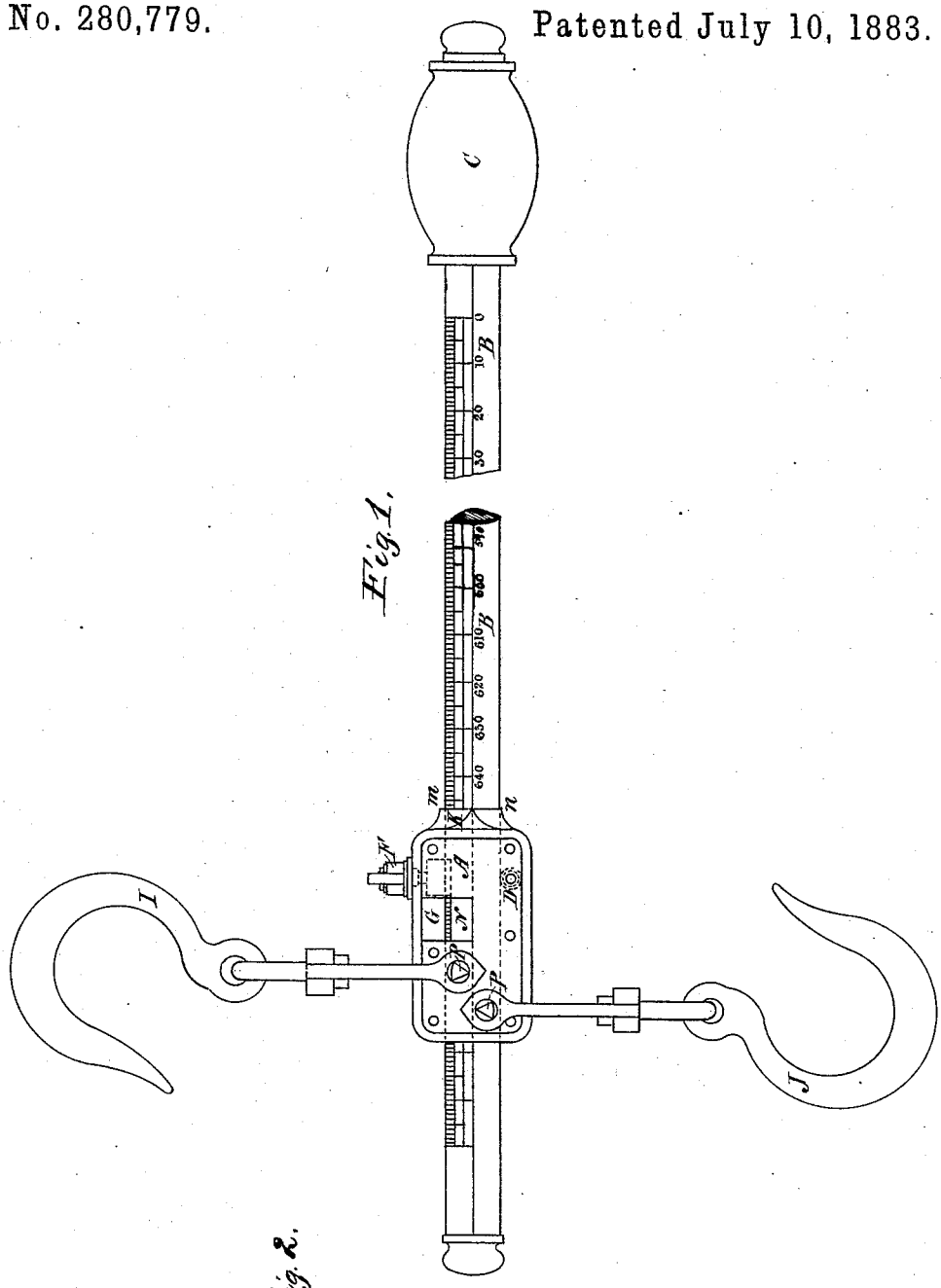
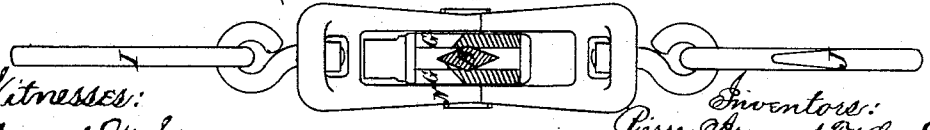


Fig. 2.



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