

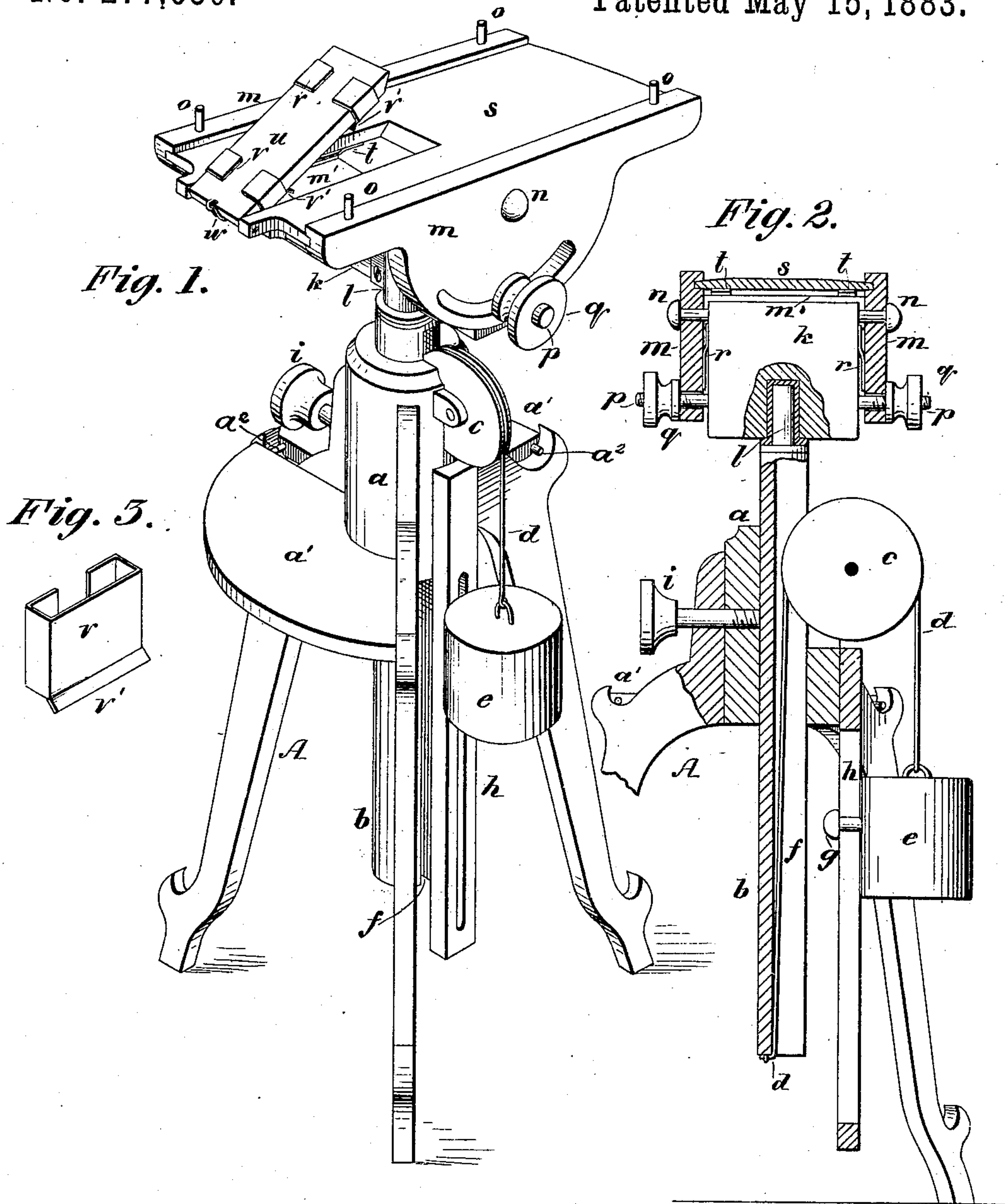
(No Model.)

W. R. WRIGHT.

CAMERA STAND.

No. 277,650.

Patented May 15, 1883.



WITNESSES:

John McDeerner
C. Sedgwick

INVENTOR:

W. R. Wright

BY Munn & Co

ATTORNEYS.

UNITED STATES PATENT OFFICE.

WILLIAM RUSSELL WRIGHT, OF PRINCETON, INDIANA.

CAMERA-STAND.

SPECIFICATION forming part of Letters Patent No. 277,650, dated May 15, 1883.

Application filed March 3, 1883. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM R. WRIGHT, of Princeton, in the county of Gibson and State of Indiana, have invented a new and Improved Camera-Stand, of which the following is a full, clear, and exact description.

The object of my invention is to provide for greater range of action and usefulness in camera-stands; and the invention consists in certain features of construction and arrangement, hereinafter described.

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

Figure 1 is a perspective view of a camera-stand embodying my improvements, and Fig. 2 is a vertical section of the stand. Fig. 3 is a perspective view of one of the picture-clamps.

The tripod A is of ordinary character, and through its head *a* passes the vertical shaft *b*, that carries the head-block and table for support of the instrument, as hereinafter described.

Upon the tripod-head is a grooved pulley, *c*, over which passes a cord, *d*, that is attached at one end to the lower part of shaft *b*, the other end of the cord carrying a weight *e*, by which the shaft and parts upon it are balanced.

The shaft *b* is formed longitudinally with a groove, *f*, into which the pulley projects, so that the cord *d* extends in a vertical line, or nearly so, to its connection on the shaft at the lower end of the slot. This arrangement insures a vertical pull of the cord on the shaft at or near the center, so that binding of the shaft in the head is prevented, and only a single pulley is required to insure a free movement. The weight *e* may be inclosed in a tube, or any device which will serve as a guide.

As shown, it is guided by a headed pin, *g*, entering a slot in a vertically fixed bar, *h*, so that the weight is free to rise and fall, but is prevented from swinging. A set-screw, *i*, serves for clamping the shaft *b* in position, as raised or lowered.

k is a head-block, socketed at *l* upon the upper end of shaft *b*, so that it may be revolved in a horizontal plane.

Upon opposite sides of block *k* boards or plates *m m* are attached, at or near their mid-length, by pivot-pins *n n*, so that the plates

are held securely and may swing or oscillate in vertical planes. The two plates *m* are connected rigidly together by a cross-bar, *m'*, at each end, and their upper edges are provided with pins *o*, for retaining a camera in place; or any suitable means may be provided for that purpose. To retain the plates in position as swung on their pivots *n*, there are screw-pins *p* projecting from head *k* through curved slots in the plates, and on the pins are clamping-nuts *q*. This construction allows the instrument to be revolved or adjusted right and left, and also set on any angle to the horizon.

To prevent a too free or sudden movement, there are upon block *k* friction-springs *r*, that bear against the inner surfaces of the plates *m*.

The copying attachment or board *s* is fitted to slide between the plates *m* in grooves formed in the plates, so that the board can be drawn out when required for use, and when not in use is disposed of in place beneath the camera.

Upon one of the cross-bars of plates *m* are friction-springs *t*, bearing against the under side of board *s*, and serving to retain the board in place.

u is a hinged piece, fitted in one end of board *s*, for supporting the pictures to be copied, sliding clamps *v* being provided on the support, so that the pictures can be quickly and properly adjusted. These clamps (shown most clearly in Fig. 3) are strips of sheet metal bent to fit around the support *u*, and formed with lips *v'*, for taking over the edges of the picture. The support *u* is hinged, so as to be raised into an upright position when in use and turned down flat with board *s* when not in use. In its upright position the support is held by a rubber or other spring, *w*, extending from the board to any convenient point on board *s*.

For convenience of the operation, the tripod A is fitted with a table or shelf, consisting of segments *a'*, attached to the head *a* and legs of the tripod by pins *a''*.

These improvements add largely to the convenience and utility of the camera-stand without adding to the expense of manufacture.

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

1. In a camera-stand, the combination, with the head *a* of the tripod, of the shaft *b*, pro-

vided with the longitudinal groove *f*, the pulleys *c*, journaled in said head, the cord *d*, the weight *e*, and means for guiding said weight, substantially as herein shown and described.

5 2. In a camera-stand, the combination, with the head *a* of the tripod, the longitudinally-grooved shaft *b*, and the pulley and cord *c d*, of the slotted bar *h*, and the balance-weight *e*, provided with the pin *g*, working in the slot of
10 said bar, substantially as herein shown and described.

3. In a camera-stand, the combination, with the horizontally-revolving head-block *k*, of the plates *m*, pivoted to said head-block and pro-
15 vided with curved slots, and the clamping-nuts *g*, substantially as herein shown and described.

4. In a camera-stand, the combination, with the horizontally-revolving head-block *k* and
20 the grooved plates *m*, pivoted to said head-block, of the sliding copying-board *s* and fric-

tion-springs *t*, substantially as herein shown and described.

5. The friction-springs *r*, combined with head-block *k* and oscillating plates *m*, as and for 25 the purpose specified.

6. In a camera-stand, the combination, with the copying-board *s*, of the picture-support *u*, hinged in a recess of the said board, substan-
tially as herein shown and described. 30

7. In a camera-stand, the combination, with the tripod *A*, of the segments *a'*, provided with pins *a''*, for securing them to said tripod, substantially as herein shown and described.

8. The sliding clamps *v*, in combination with
35 picture-support *u* and board *s*, substantially as specified.

WILLIAM R. WRIGHT.

Witnesses:

JOHN W. JOHNSON,
JOHN SIPPE.