

A. J. RUSSELL.

TRIPOD-HEADS FOR CAMERA-STANDS.

No. 176,692.

Patented April 25, 1876.

Fig. 3

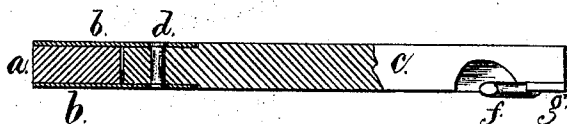
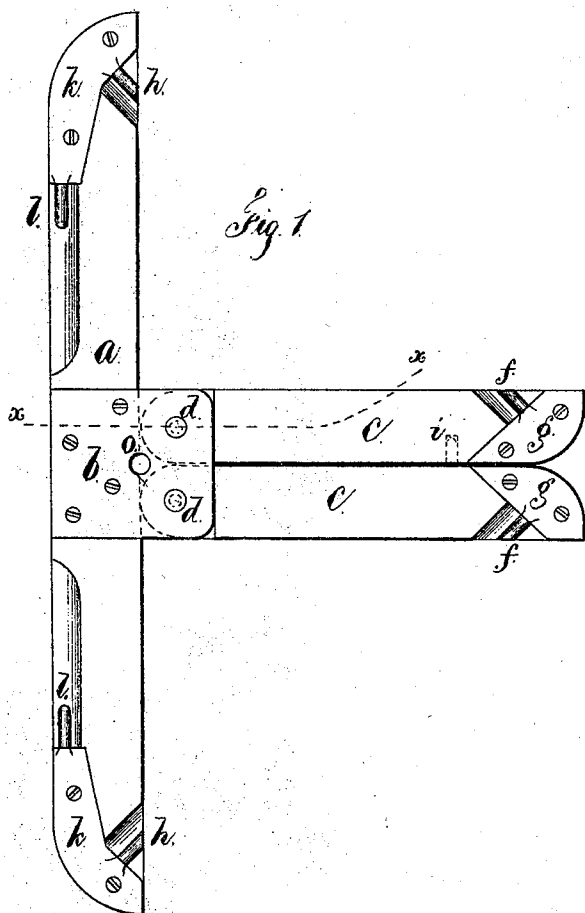


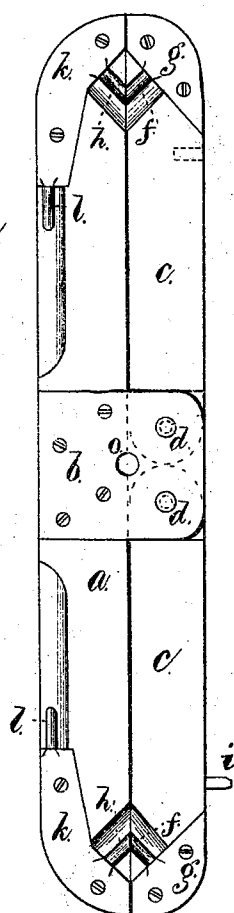
Fig. 1



Witnesses,

Chas. H. Smith
Harold Perrell

Fig. 2



Inventor

Andrew J. Russell.
per Lemuel W. Perrell atty.

UNITED STATES PATENT OFFICE.

ANDREW J. RUSSELL, OF NEW YORK, N. Y., ASSIGNOR TO E. & H. T. ANTHONY & CO., OF SAME PLACE.

IMPROVEMENT IN TRIPOD-HEADS FOR CAMERA-STANDS.

Specification forming part of Letters Patent No. **176,692**, dated April 25, 1876; application filed March 22, 1876.

To all whom it may concern :

Be it known that I, ANDREW J. RUSSELL, of the city and State of New York, have invented an Improvement in Tripod-Heads for Camera-Stands, &c., of which the following is a specification :

Circular and triangular tripod-heads have been made use of for camera-stands for traveling photographers, &c., and to these heads the three legs are pivoted so as to be swung more or less apart and accommodate the surface of the ground. These legs are usually each made so as to be disconnected at the upper end from the tripod-head either by withdrawing a pin, or by pressing together the two parts composing the forked upper end of the leg.

My tripod head is adapted to be used with the ordinary legs, but it is made to fold so that it may occupy very little space in transportation, and may be as firm and rigid as though it were made in one piece.

In the drawing, Figure 1 is an inverted plan of the tripod-head as open. Fig. 2 is a similar view of the parts as folded into a small compass, and Fig. 3 is a section at the line *x x*.

The bar *a* is provided with the plates *b b*, firmly attached at the middle thereof, and projecting at one side and receiving between them the inner ends of the swinging bars *c c*, that are attached to said plates *b* by the pivot screws or rivets *d* passing through the plates and bars. These bars *c c* may be turned up back to back against each other, as seen in Fig. 1, or they may be swung down against and parallel with the bar *a*, so as to occupy but little space in transportation, as in Fig. 2.

The bars *c c*, when in the position shown in Fig. 1, occupy a position at right angles to the bar *a*, and there is a pin, *i*, upon one of the bars, entering a hole in the other bar, so as to connect the parts firmly together, but not to interfere with the folding of the bars, as aforesaid.

The pivot-pins *f f* project from plates *g* that are attached to the outer ends of the bars *c*, and the pivot-pins *h h* upon the plates *k k* at the ends of *a* are in line with these pivot-pins *f*, so that two of the legs will be received between these pins *f* and *h*, and the third leg will be received between the pins *l l*, that project toward each other at the edge of the bar *a*. These pins *l l* are upon the plates *k*, and are the same distance apart, or nearly so, as the pins *f* and *h*.

The wood of the bars *a* and *c* is removed contiguous to the pins *f*, *h*, and *l*, so as to allow the eyes at the upper ends of the tripod-legs to be sprung over such pins in connecting the legs to the tripod-head.

There is a hole, *o*, through the plates *b b* for the screw or pin, by which the camera-stand is attached to the tripod-head in any usual manner.

I claim as my invention—

The tripod-head, made of the bar *a*, plates *b b*, swinging bars *c*, and pivot-pins *f*, *h*, and *l*, substantially as set forth.

Signed by me this 20th day of March, A. D. 1876.

ANDREW J. RUSSELL.

Witnesses :

GEO. T. PINCKNEY,
CHAS. H. SMITH.