

No. 870,790.

PATENTED NOV. 12, 1907.

P. MAKEEFF.
PHOTOGRAPHIC VIGNETTER.
APPLICATION FILED NOV. 27, 1906.

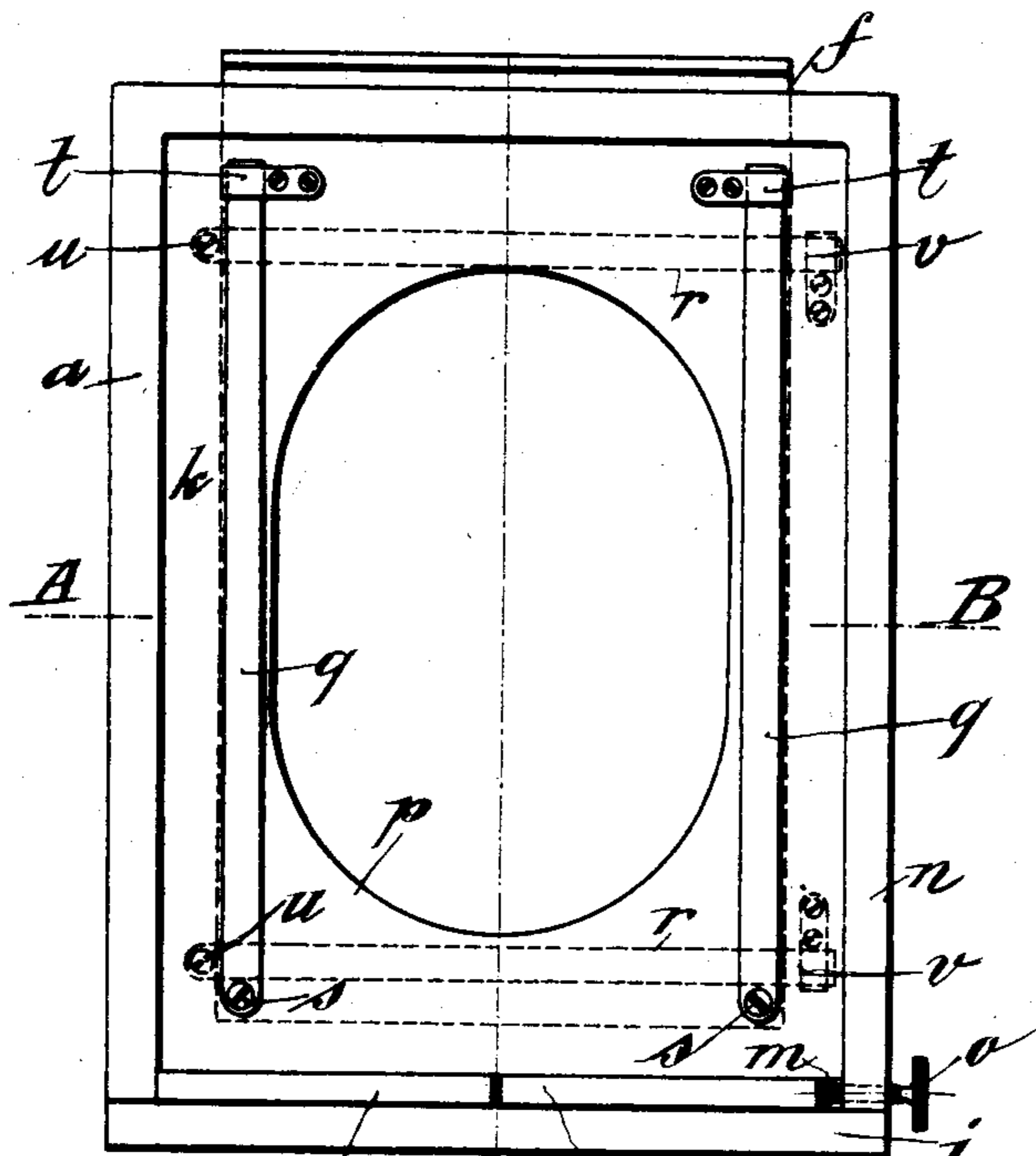


Fig. 1

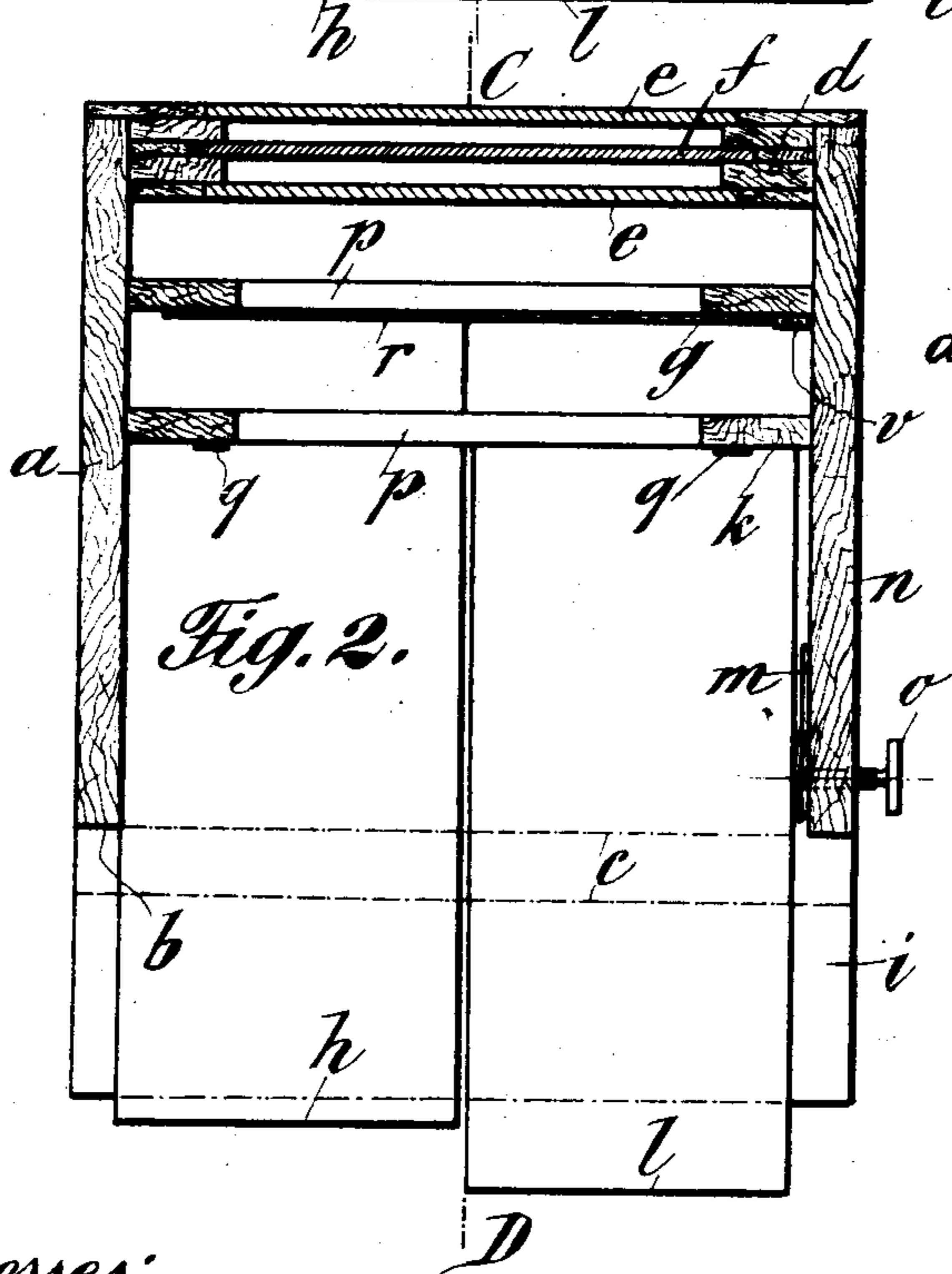


Fig. 2.

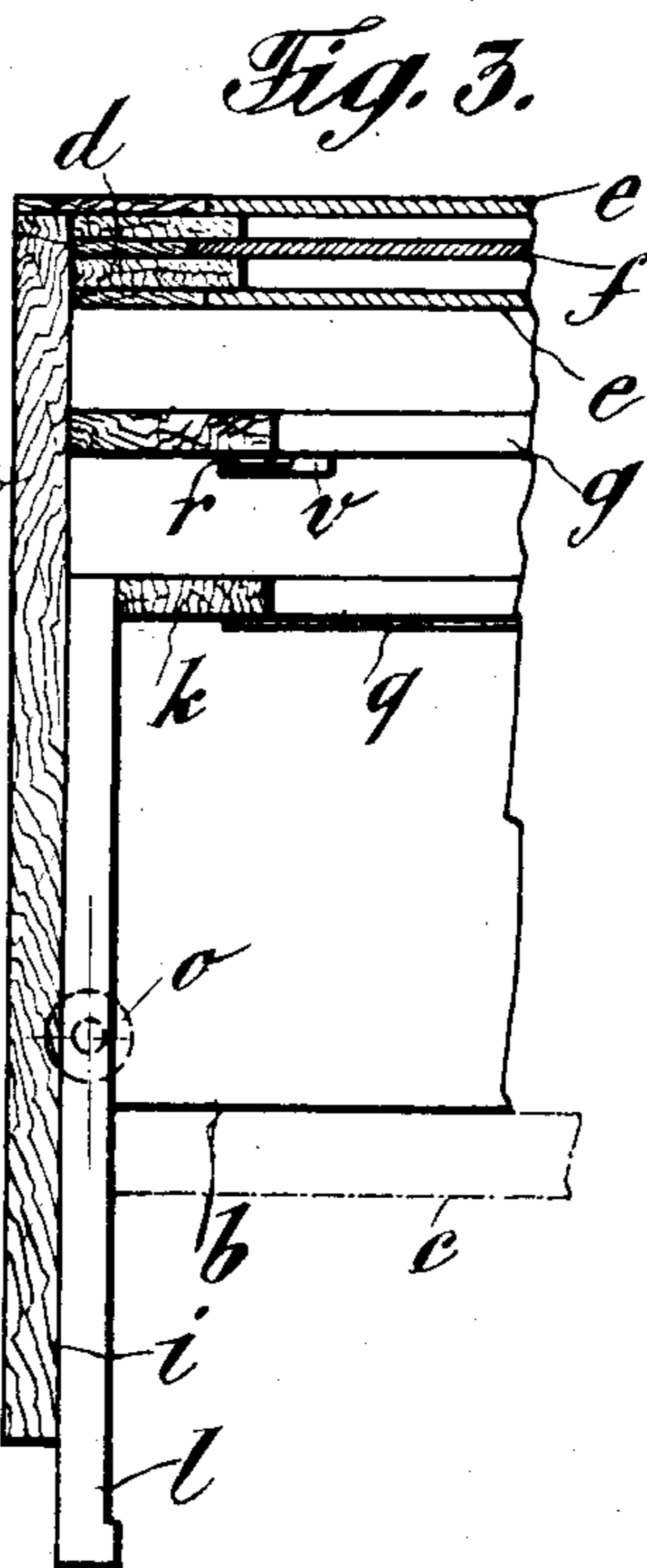


Fig. 3.

Witnesses:

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PHOTOGRAPHIC VIGNETTER.

No. 870,790.

Specification of Letters Patent.

Patented Nov. 12, 1907.

Application filed November 27, 1906. Serial No. 345,381.

To all whom it may concern:

Be it known that I, PHILÉMON MAKEEFF, a citizen of Switzerland, residing at Le Locle, Switzerland, have invented new and useful Improvements in Photographic Vignettters, of which the following is a specification.

The object of the invention is a vignetter that is to say an apparatus serving in photography to obtain vignetted positive proofs.

10 The accompanying drawing, which is given by way of example, represents a constructional form of the object of the invention:—

Figure 1 represents a rear elevation of the apparatus. Fig. 2 is a section on the line A—B of Fig. 1. 15 Fig. 3 is a section on the line C—D of Fig. 2.

The apparatus comprises a box *a* open at one of its extremities *b* to permit of inserting therein a plate holder *c* which is shown in broken lines, while it is closed at its other extremity by a frame *d* carrying 20 two ground glasses *e* and a dark shutter *f* capable of sliding between these two glasses.

Two screen or mask holders are fitted in the box *a*, one of them *g* being fixed to a small plate *h* which rests on the bottom *i* of the box, and the other *k* being 25 fixed to a small plate *l* likewise resting on the said bottom *i*; the two plates *h* and *l* are each of about half the width of the bottom *i* of the box, and in sliding on this bottom enable the screen holders *g* and *k* to be advanced or withdrawn relatively to the ground glasses 30 *e*; a flat spring *m* fixed to the side *n* of the box *a* constantly bears against one side of the plate *l*, a set screw *o* which is screwed into the said side *n* enabling the two plates *l* and *h* to be fixed when the screen holders are arranged at the appropriate place.

35 The screen holders are each formed of a plate *g* *k* open at *p* and to the sides of which there are pivoted metal plates *q* *r* forming springs and intended to hold against the plates the screens which are generally of black paper, their aperture being of an appropriate 40 form for obtaining the desired vignetting of the proofs. The strips *q* pivoted at *s* to the plate *k* may be engaged beneath catches *t* screwed on to the said plate and the strips *r* pivoted at *u* on the plate *g* may be engaged beneath catches *v* screwed to this plate.

45 The vignetter may be used in the following manner:—The front of the apparatus carrying the ground glass *e* is placed in front of a lantern, not shown in the drawing, containing a source of artificial light, such for example as an electric lamp, a gas burner or the 50 like, in such a manner that no ray of actinic light issues from the lantern or from the joint between this lantern and the front of the vignetter. The dark shutter *f* being opened, the negative plate arranged in the frame *c* is focused by moving forward or back- 55 ward to a greater or less extent one or other or both

the two plates *h* and *l* fixed to the screen holders *g* and *k* respectively until the desired vignetting effect is observed upon the plate. The shutter *f* is then closed, the sensitive paper is placed upon the negative plate the plate holder *c* of which is arranged as represented in Figs. 2 and 3. The plate is then exposed in contact with the sensitive paper by opening the shutter *f* for the desired length of time, the shutter is closed, and the operation is repeated as many times 60 as it is desired to obtain positive proofs. 65

By taking care in the first place to settle the duration of the exposure by means of a clock illuminated by a non-actinic light, it is possible to make proofs with great rapidity, while at the same time the effects obtained are exceedingly uniform. 70

Either of the ground glasses *e* may be removed according to requirements. 75

The form and dimensions of the apparatus and of its different parts may vary within the scope of the appended claims. 75

Having now particularly described and ascertained the nature of my said invention and in what manner the same is to be performed, I declare that what I claim is:—

1. A photographic vignetting device, comprising a box 80 open at one of its extremities in order to permit of inserting therein a plate holder, and closed at its other extremity by a ground glass, a movable dark shutter, and two screen holders in said box, each fixed to a sliding plate which is adapted to move such holder toward and from the open end of the box, such sliding plates extending 85 to the outside so as to be adjustable therefrom.

2. A photographic vignetting device having means for mounting a plate holder, and a shutter, and between the two a slidable screen holder movable toward and from such mounting means, and means extending to the exterior of the device for sliding said holder. 90

3. A photographic vignetting device having means for mounting a plate holder, and a shutter, and between the two a pair of screen holders adapted to move toward and from such mounting means, and means for adjusting such holders. 95

4. A photographic vignetting device having means for mounting a plate holder, and a shutter, and between the two a pair of screen holders adapted to be moved toward and from such mounting means, and means for adjusting such holders, such adjusting means extending to the exterior of the device so that they may be operated therefrom. 100

5. A photographic vignetting device having means for mounting a plate holder, and a shutter, and between the two a pair of movable screen holders, and means for adjusting such holders toward and from such mounting means comprising slides arranged side by side and extending to the rear of the device. 105

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses. 110

PHILÉMON MAKEEFF.

Witnesses:

CHARLES DUBOIS,
GRACE L. PHILLIPS.