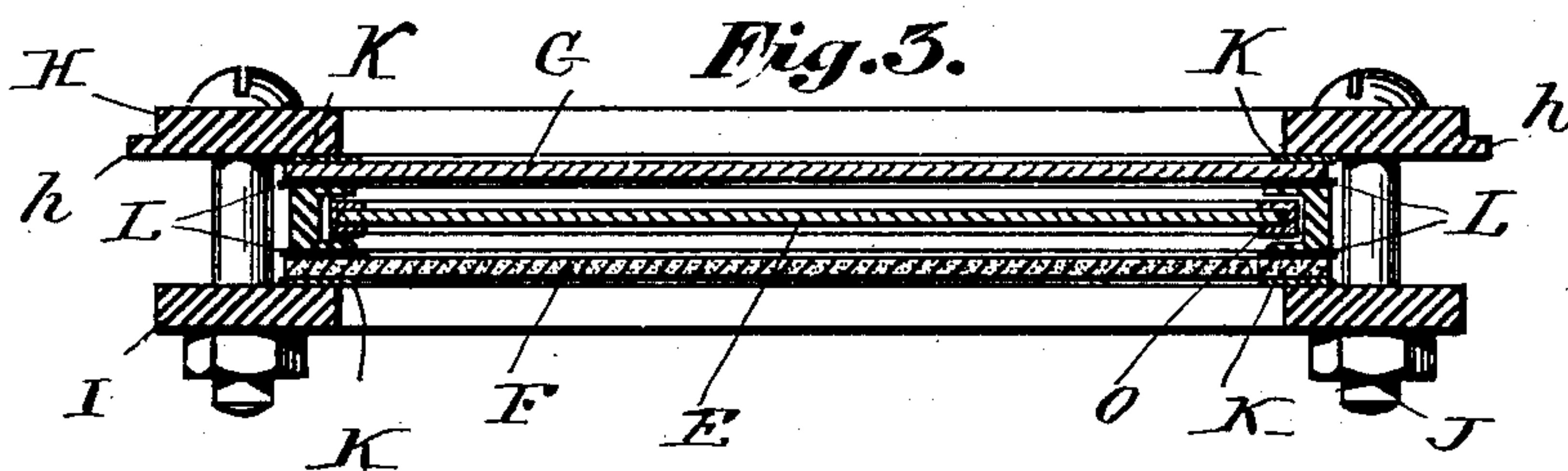
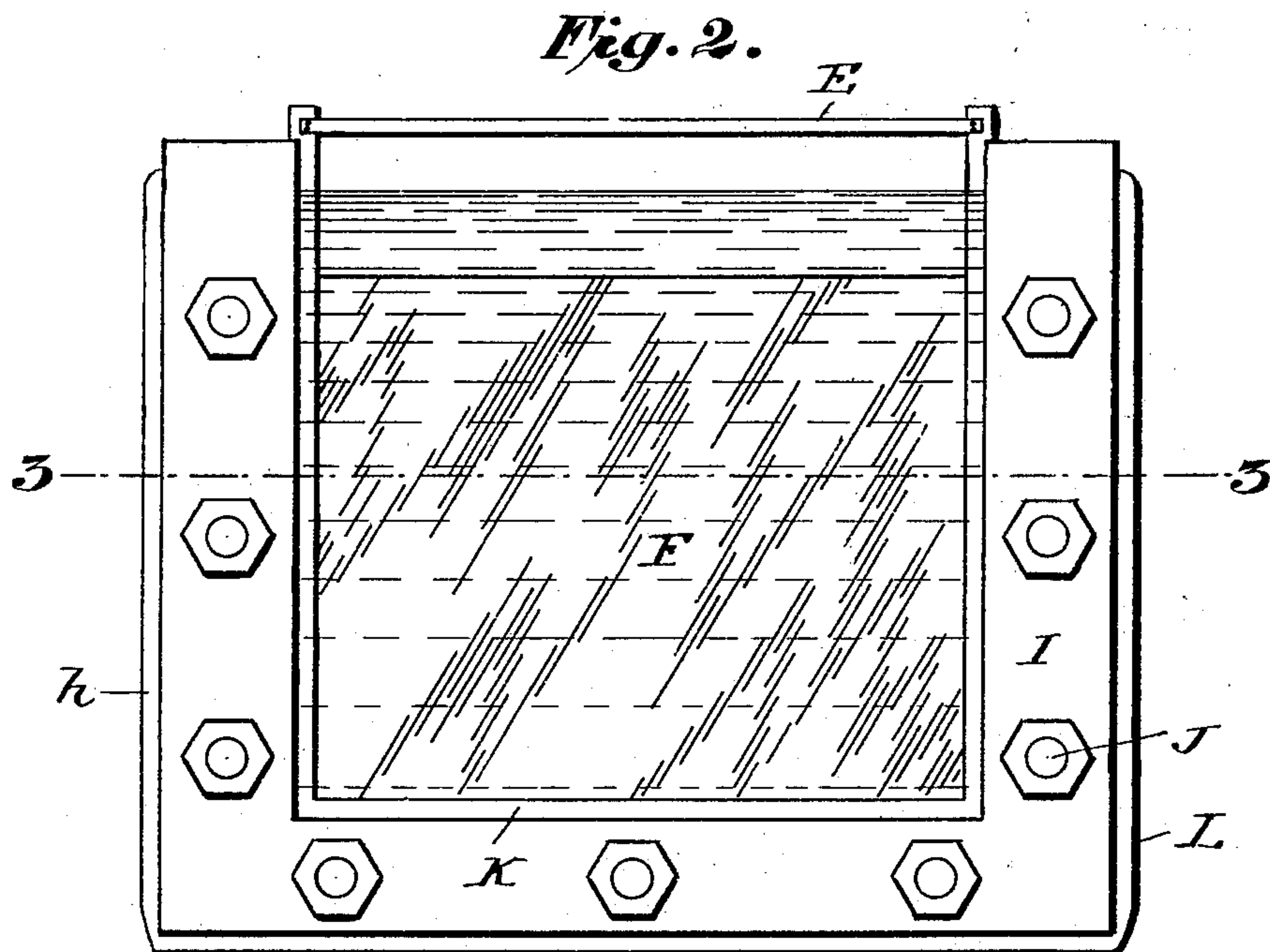
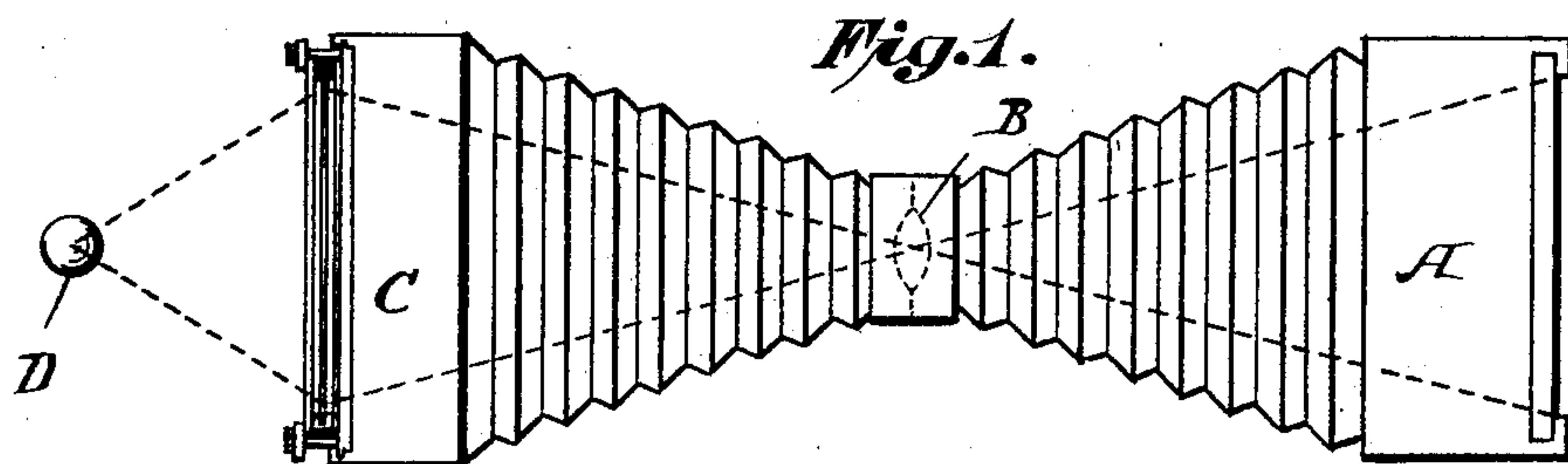


P. F. COWING.
PHOTOGRAPHIC APPARATUS.

APPLICATION FILED OCT. 24, 1902.

NO MODEL.



Witnesses:
C. Mitchell,
H. G. Gellman, Jr.

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UNITED STATES PATENT OFFICE.

PERCY FOOTE COWING, OF NEW YORK, N. Y.

PHOTOGRAPHIC APPARATUS.

SPECIFICATION forming part of Letters Patent No. 719,196, dated January 27, 1903.

Application filed October 24, 1902. Serial No. 128,639. (No model.)

To all whom it may concern:

Be it known that I, PERCY FOOTE COWING, a citizen of the United States, and a resident of the borough of Manhattan, city, county, and State of New York, have invented certain new and useful Improvements in Photographic Apparatus, of which the following is a specification, accompanied by drawings.

My invention relates to photographic apparatus, and its object is to enable a print to be made from a plate or film before it is dry, or, in other words, according to my invention a print may be taken from the plate or film while it is still wet, thus saving time and enabling the finished proof to be produced, if desired, within a few minutes after exposure, and the print may be enlarged or reduced just as readily as it may be made the same size as the plate or film printed from.

Further objects of my invention will hereinafter appear; and to these ends my invention consists in apparatus for carrying out the above object embodying the features of construction, combinations of elements, and arrangement of parts having the general mode of operation, substantially as herein-after fully described in this specification and shown in the accompanying drawings, in which—

Figure 1 is a side elevation of an enlarging-camera embodying my invention. Fig. 2 is an enlarged front elevation of the tank; and Fig. 3 is a transverse sectional plan view on the line 3 3 of Fig. 2.

According to my invention, as hereinbefore stated, the printing is done while the plate or film is still wet, and any suitable apparatus may be provided for carrying out this object, I having illustrated a suitable form of apparatus embodying my invention, although I am not to be understood as limiting myself to any particular form of apparatus.

I have chosen to illustrate my invention in connection with an enlarging-camera, as illustrated in the drawings, and in Fig. 1 the usual printing-frame A is provided at one end of the camera, in which the sensitized paper or plate is placed to receive the image. The usual lens B is arranged between the printing-frame and the other end C of the camera, at which end I arrange a suitable tank for the reception of the plate or film from which

the print is to be made. The tank may contain water or any other suitable liquid—as, for instance, a portion of the hypoing solution—so that the plate may have the last portion of the hypoing done in the tank before exposure.

D represents a suitable source of light, and according to my construction the tank in which the plate or film E is placed should be provided with ground glass F nearest the source of light D, the other side of the tank being formed of plate-glass G.

The tank may be constructed in any suitable manner, and I have shown it in Fig. 3 as separable from the remainder of the camera. In this instance the frame H is provided with projections *h*, adapted to grooves in the end of the camera, and the outer frame I is adapted to be secured to the frame H by suitable means. (Shown as bolts J.) In order to make the tank water-tight, suitable stuffing is used between the glass plates F and G and the frames, as shown. Strips of blotting-paper K are inserted between the glass plates and the frame, while rubber gaskets L are inserted between said glass plates and the inner grooved member or frame O, adapted to receive the frame for holding the plate or film from which the print is to be made.

Obviously some features of my invention may be used without others, and my invention may be embodied in widely-varying forms.

Therefore, without limiting myself to the construction shown and described nor enumerating equivalents, I claim, and desire to obtain by Letters Patent, the following:

1. The combination with means for holding a plate or film from which a print is to be made, of means for maintaining the plate or film wet, and means for printing from the plate or film while it is still wet, substantially as set forth.

2. The combination with means for holding a plate or film from which a print is to be made, of a tank for said plate or film adapted to contain a suitable liquid, and means for printing from said plate or film while maintained in the tank whereby the plate or film may be printed while wet, substantially as set forth.

3. The combination of means for holding a

plate or film from which the print is to be made, a tank for said plate or film, said tank having a ground-glass plate toward the light and a plate-glass plate toward the sensitized paper, and means for printing from said plate or film while in the tank, whereby printing may be done while the plate or film is still wet, substantially as set forth.

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

PERCY FOOTE COWING.

Witnesses:

R. P. RICKETTS,
M. L. COWING.