

(No Model.)

J. LEFEUVRIER.
COMBINED BATH AND CAMERA.

No. 256,148.

Patented Apr. 11, 1882.

Fig. 1.

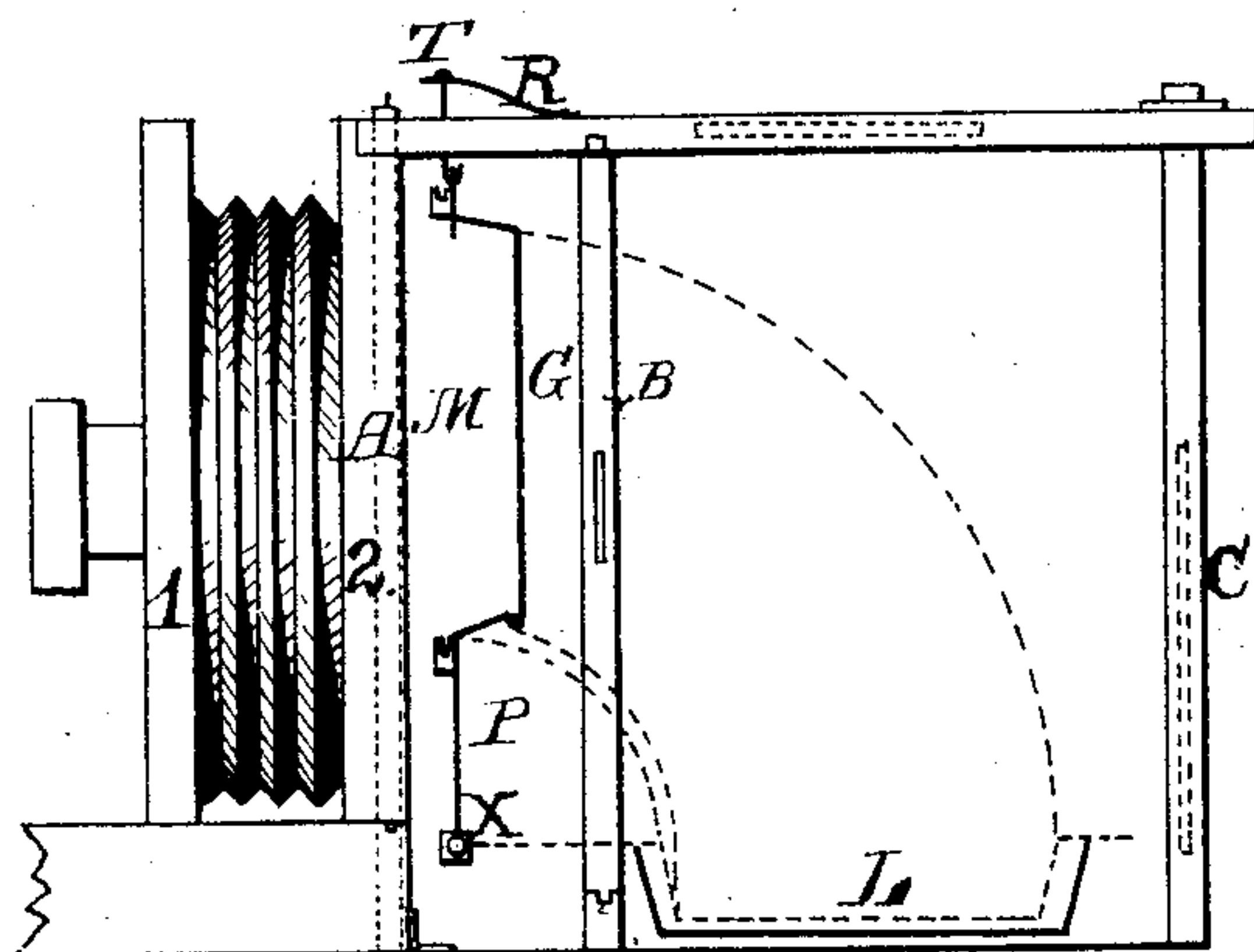


Fig. 2.

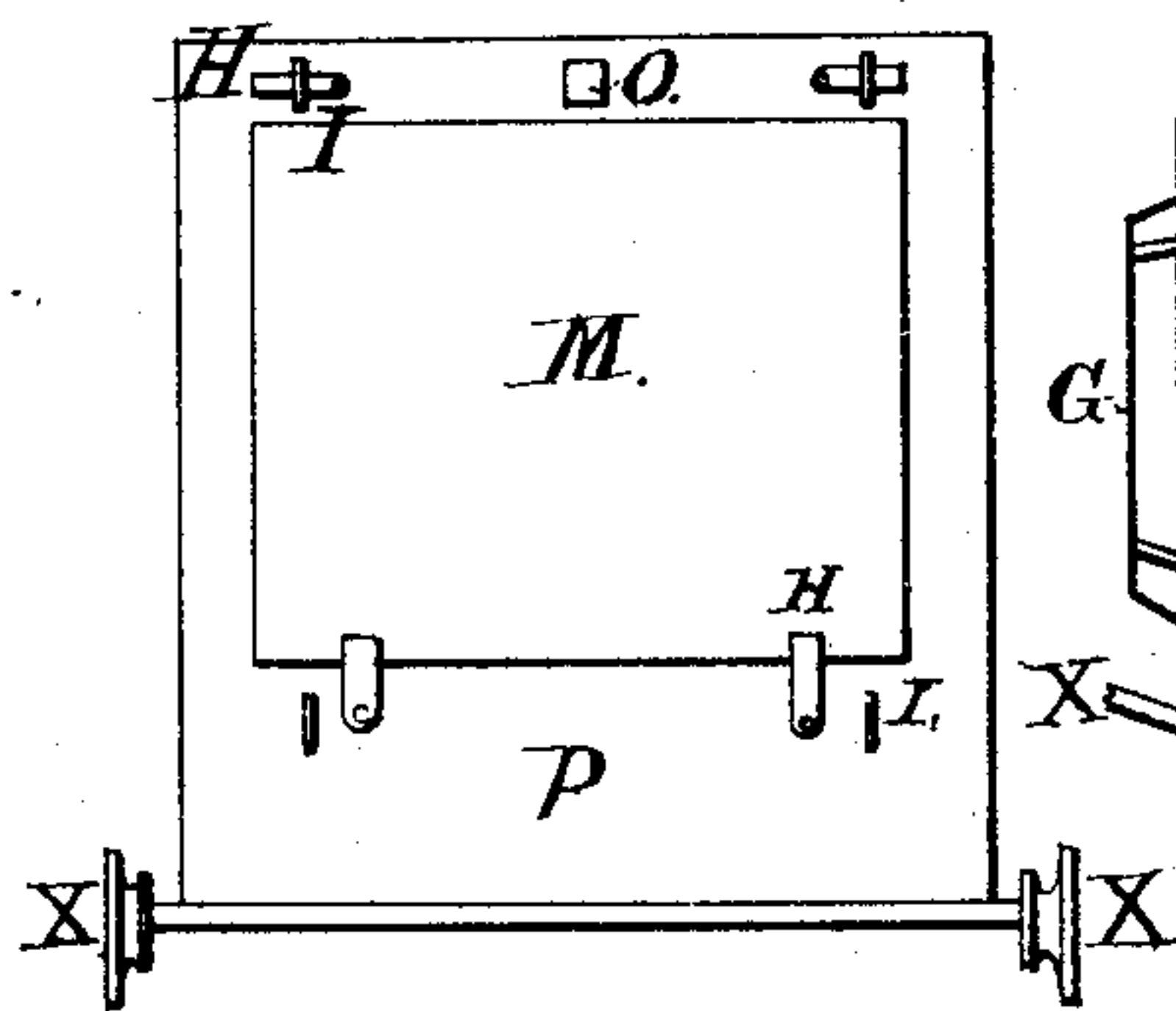


Fig. 3.

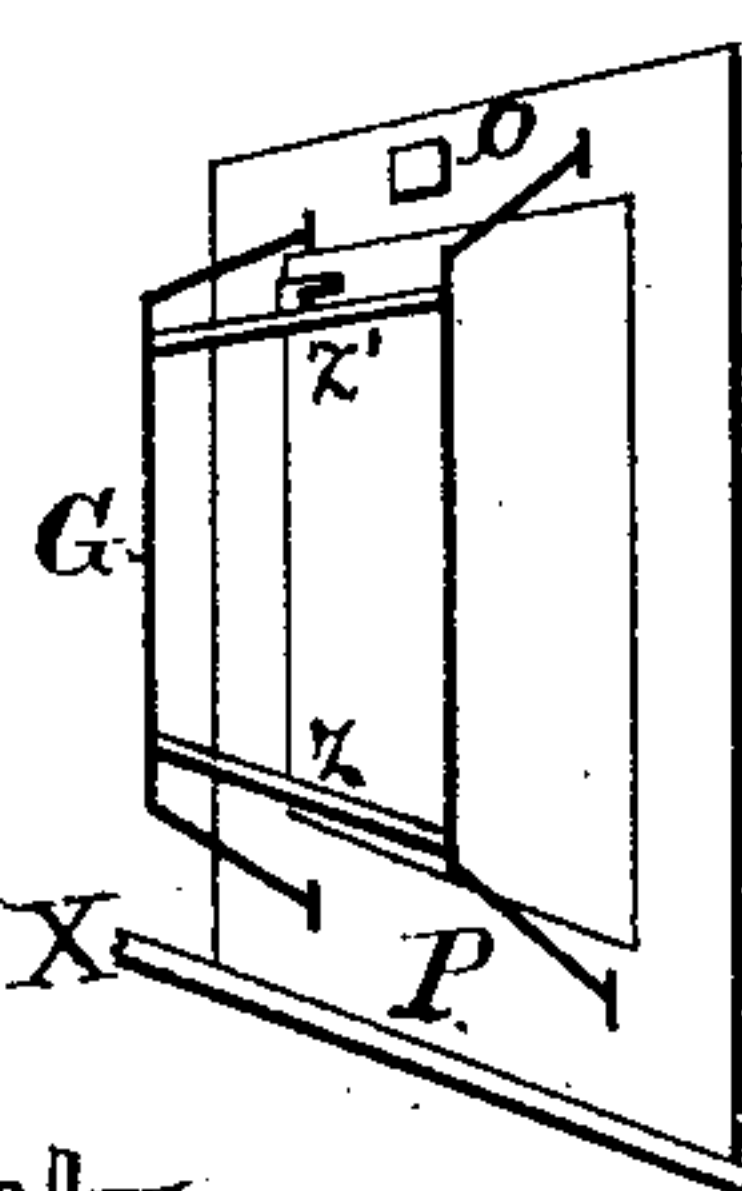
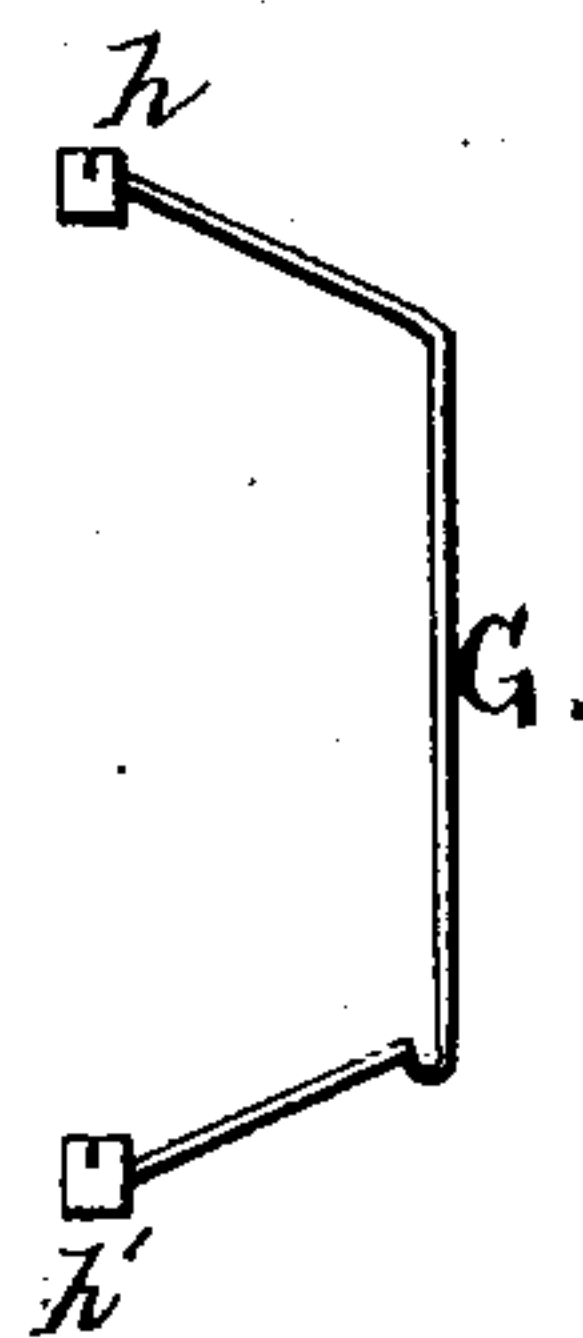


Fig. 4.



Witnesses
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UNITED STATES PATENT OFFICE.

JOSEPH LEFEUVRIER, OF MERDRIGNAC, FRANCE.

COMBINED BATH AND CAMERA.

SPECIFICATION forming part of Letters Patent No. 256,148, dated April 11, 1882.

Application filed October 17, 1881. (No model.) Patented in France May 17, 1881.

To all whom it may concern:

Be it known that I, JOSEPH LEFEUVRIER, a citizen of the French Republic, residing at Merdrignac, France, have invented a new and useful Improvement in Combined Bath and Camera, of which the following is a specification.

This invention relates to improvements in photographic apparatus. The same invention has been patented to me by the government of France by Letters Patent No. 142,865, dated May 17, 1881, and has for its object to allow of wet collodion being employed in the open air by the use of a peculiarly-constructed frame or plate-holder introduced into the camera supplied with double shutters, and combined with a dark-chamber for holding baths.

Reference being made to the accompanying drawings, Figure 1 is a longitudinal section; Fig. 2, a front view of the plate-frame; Fig. 3, a perspective back view of same; Fig. 4, one of the rods constituting the plate holder or supporter.

The apparatus consists of two dark-chambers, a front or exposure, and a back combined with an interposed plate-frame, with supports for exposing and developing the plates. The front part is made with a lens, and is made movable backward and forward on rails. The back part, 2, Fig. 1, holds the frame arranged in grooves. In front of the back part of the camera is a sliding shutter, A, which opens vertically. Behind this shutter is a second sliding shutter, B, Fig. 1, which slides in a groove at the top of the camera and goes down to the bottom, where it slides in a ledge, which serves as a stop for the bath. The shutter B opens transversely from left to right. Between these shutters I arrange the following: a metallic plate or frame, P, Figs. 1, 2, and 3, secured at the bottom to a copper rod, X, which serves as its axle, and which is also provided with two knobs, as shown. By turning these

knobs the metal frame is laid backward. This plate is made of copper, silvered, and provided with an aperture, M, also a hole, o, for holding it vertical. Above said plate is a steel pin projecting through the top of the box, with a button and hook, T. The hook is held by a spring, R. The movement of the plate P is shown by dotted lines. Four openings, I, are made in the plate, for the purpose of securing two silver bars by means of pins H. These silver bars G G are made flat at their ends for fitting into the holes I, where they are secured, as at *h h'*. These bars are soldered together by blades *z z'*, with a hook on *z'* to hold the glass plate. The back part of the camera is destined to contain baths, as at L, and for all operations conducted in the dark-room. This part has an opening, C, filled with yellow glass. Another yellow glass is placed in the roof to allow of surveying the operations conducted within.

It will be seen that, the proper baths being supplied, the plate is coated, sensitized, developed, and fixed, if desired, without removal from the apparatus. The baths are changed by the back shutter, while the plate-holder is kept dark between A and B.

I claim—

The exposure-frame P, with its holders G, combined with and placed between the shutters A and B, together with the outer or bath chamber for holding baths, all substantially as described and illustrated, and for the purposes set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 8th day of September, 1881.

JOSEPH LEFEUVRIER.

Witnesses:

H. F. HADDAN,
H. J. MATRAY.