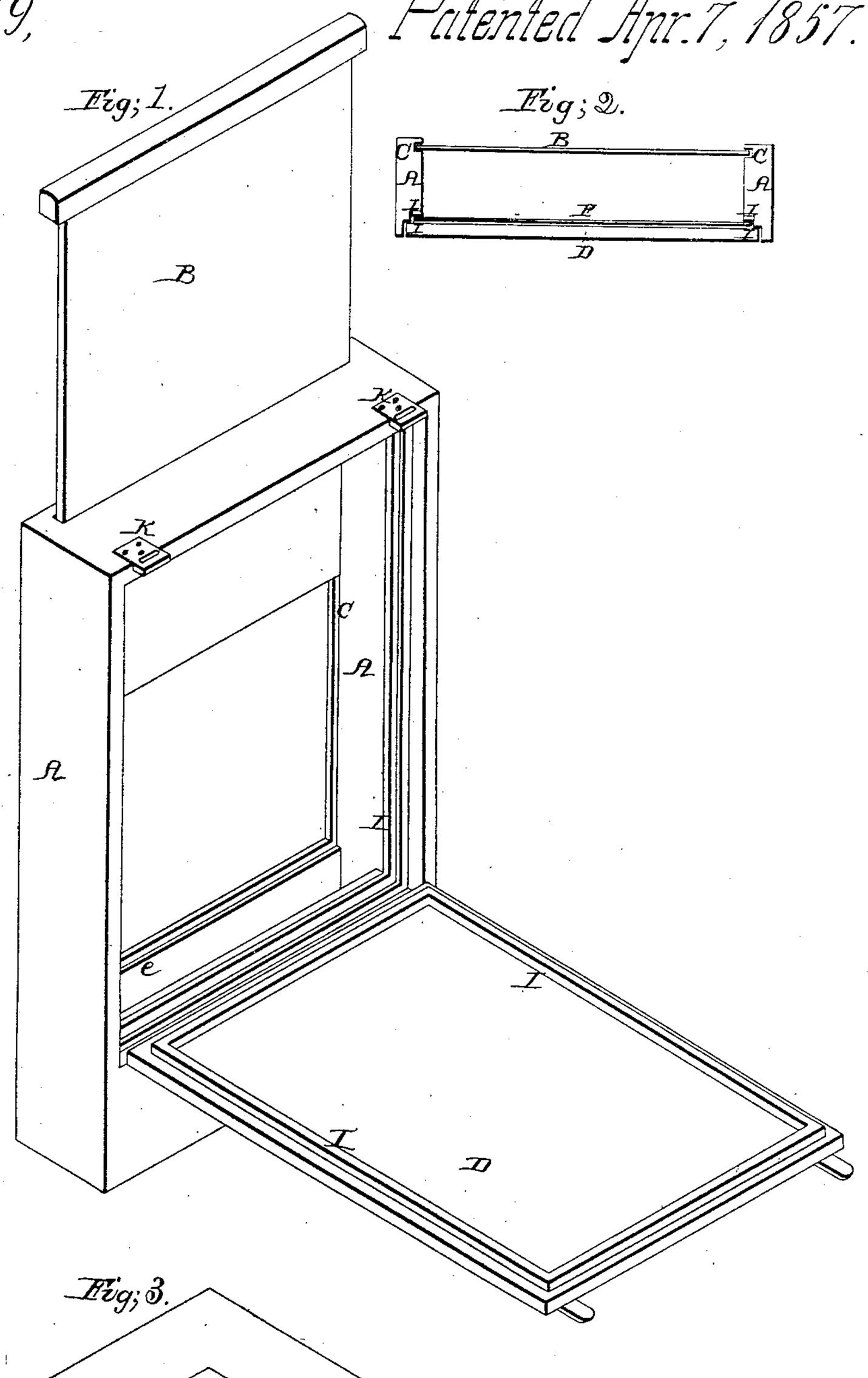
L. J. Kellogg,

Photographic-Plate Holder,

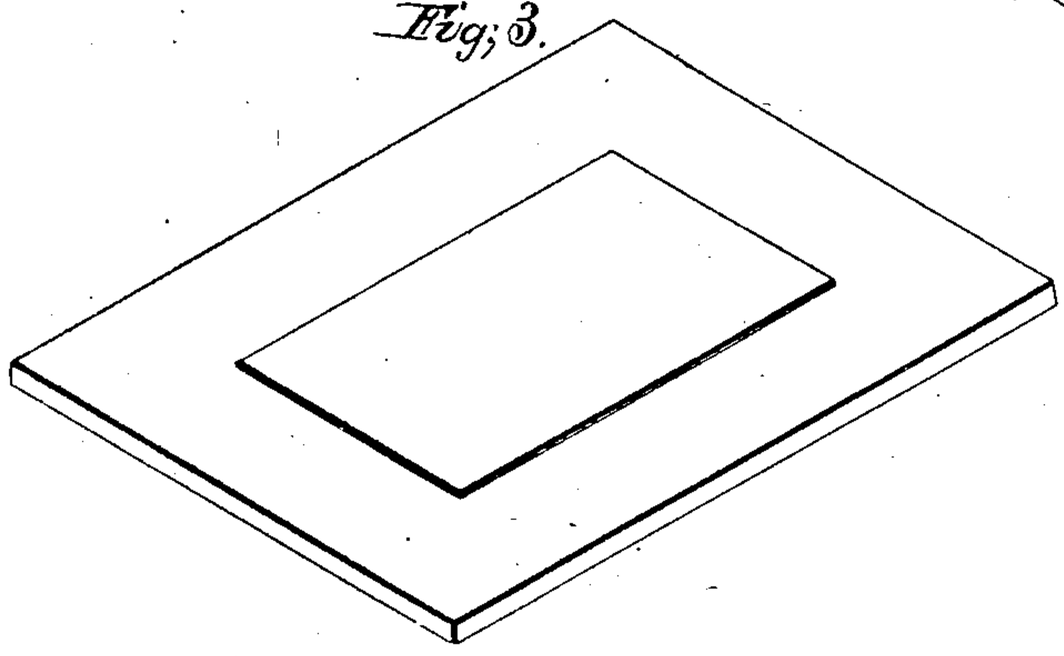
No. 16,979, Patented Apr. 7, 1857.

Fig; 1.



Fig; 2.

Fig; 3.



UNITED STATES PATENT OFFICE.

DANIEL J. KELLOGG, OF ROCHESTER, NEW YORK.

PHOTOGRAPHIC TRAY.

Specification of Letters Patent No. 16,979, dated April 7, 1857.

To all whom it may concern:

Be it known that I, D. J. KELLOGG, of the city of Rochester, in the county of Monroe and State of New York, have made and invented certain new and useful Improvements in Photographic Instruments, of which the following is a full and accurate description, reference being had to the accompanying drawings, making part of this specification, and to the letters of reference marked thereon, same letters referring to like parts in all the drawings.

Of said drawings Figure 1 is a perspective view. Fig. 2 is a cross section and Fig. 3 is explanatory of some of the details of the mode of using the same.

The nature of this invention consists in an improved instrument for exposing the plate or sheet upon which the picture is to be produced to the action of the requisite chemicals—particularly the solution of silver.

It is well known to all photographic operators that it is important to prevent the back of the plate or sheet upon which the picture is to be taken from coming in contact with the chemical solution used—particularly that of nitrate of silver, as besides the waste which is occasioned the solution is thus rendered foul and unsuited to the production of fine pictures. This object was attained in the instrument patented by me on the thirtieth of September 1856 but that instrument not being of such general application as is desired I have devised one of a different construction and possessing features not embraced in the former.

It will be seen that the instrument here prsented consists of a rectangular box with movable top and bottom. The top (B) slides in grooves (*c*) in the sides A of the box while the bottom D is hinged thereto and opens as seen in the drawing Fig. 1. At E is a well to contain the chemical solution to be used, which well may be lined with any substance which will resist the action of said chemicals. The plate being placed in the box as seen at F in the cross section (Fig. 2) the bottom D is firmly pressed up against it and retained in place by the buttons and catches K K K K or any equivalent device. The whole instrument being now brought into a horizontal position the fluid in the well will coat the surface of the plate in an equal manner, thus avoiding that streaky appearance which is so apt to be produced when the liquid is poured over the plate. When the plate has been sufficiently coated the fluid is returned to the well and the plate is disposed of in any manner desired.

Where the surface upon which the picture is to be taken consists of a flexible sheet as paper &c., I cement it to a plate of glass as seen in Fig. 3 and then treat it as if it were a rigid surface.

In order to secure a watertight junction between the bottom of the instrument and the plate I employ two strips of india rubber I, I, Figs. 1 and 2 between which the plate is compressed. These strips may be of any form and constitution which will allow sufficient elasticity to make up for the irregularities of the plate.

Having thus described my invention what I claim therein as new and desire to secure by Letters Patent is—

The employment of the movable bottom (D) said bottom being constructed and applied in the manner and for the purpose substantially as described.

DANL. J. KELLOGG. [L. S.]

Witnesses:

JOHN PHIN,

A. H. AMSDEN.