

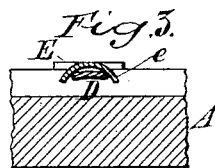
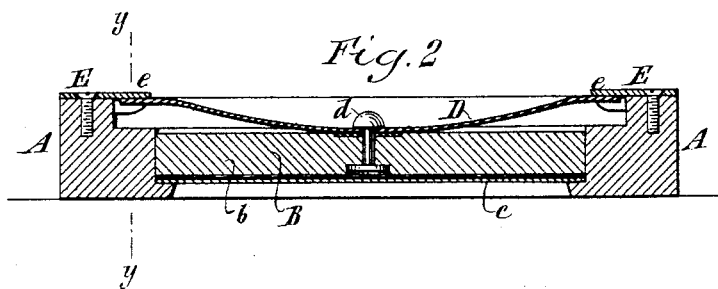
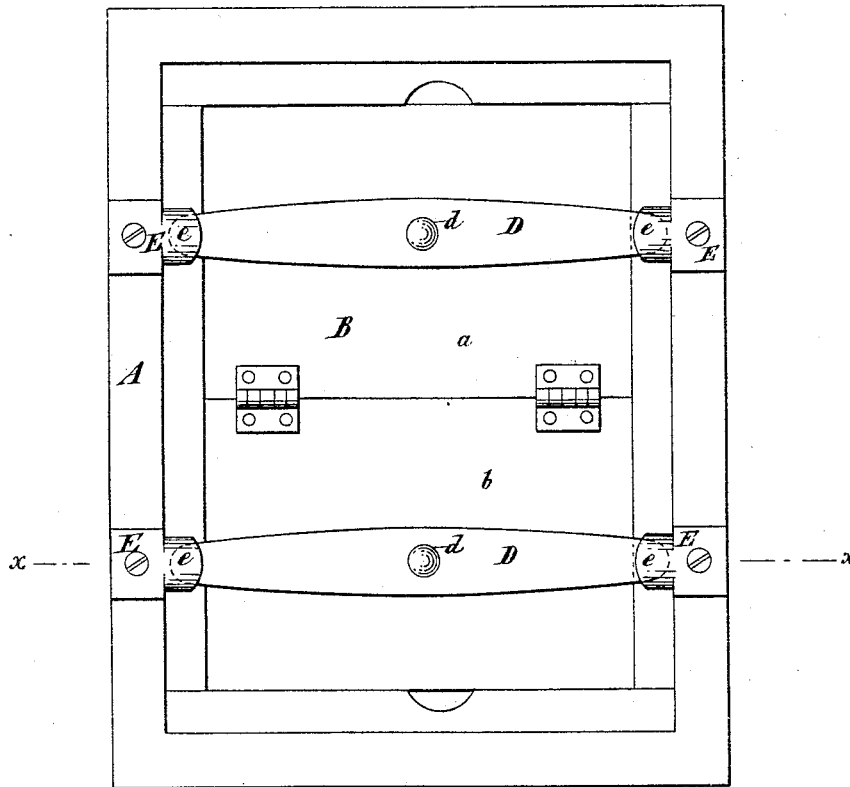
(No Model.)

W. I. ADAMS.
PHOTOGRAPHIC PRINTING FRAME.

No. 346,255.

Patented July 27, 1886.

Fig. 1.



Witnesses
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UNITED STATES PATENT OFFICE.

W. IRVING ADAMS, OF MONTCLAIR, NEW JERSEY, ASSIGNOR TO THE SCOVILL
MANUFACTURING COMPANY, OF NEW YORK, N. Y.

PHOTOGRAPHIC-PRINTING FRAME.

SPECIFICATION forming part of Letters Patent No. 346,255, dated July 27, 1886.

Application filed March 1, 1886. Serial No. 193,640. (No model.)

To all whom it may concern:

Be it known that I, W. IRVING ADAMS, of Montclair, in the county of Essex and State of New Jersey, have invented a certain new and useful Improvement in Photographic-Printing Frames, of which the following is a specification.

I will describe in detail a photographic-printing frame embodying my improvement, and then point out the novel features in a claim.

In the accompanying drawings, Figure 1 is a back view of a photographic-printing frame embodying my improvement. Fig. 2 is a transverse section of the same, taken on the plane of the dotted line *x x*, Fig. 1. Fig. 3 is a section taken in the plane of the dotted line *y y*, Fig. 2, a portion being broken away.

Similar letters of reference designate corresponding parts in all the figures.

A designates the main portion of the frame. It may be of the usual or any suitable construction, and is provided, as shown, with a rabbet upon its inner edge, near the upper side.

B designates the back of the frame. This back fits within the portion A of the frame, and is removable therefrom. It is composed of two portions or leaves, *a b*, hinged together, so that either side may be lifted without disturbing the other in the usual manner. Beneath the back a glass plate, *c*, is arranged, between which and the back B is placed the sensitized paper to be printed upon. It is essential that the sensitized paper should be kept very smooth and flat, and that it should not be shifted during the process of printing, otherwise the photograph will be defective. For the purpose of pressing the paper out smooth and flat it has been customary to provide the back with springs, the ends of which might be moved under flat lips or lugs extending inwardly from the portion A of the frame. By this arrangement the ends of the springs are liable to slip or be accidentally moved out of place and the back thereby shifted, so that the paper would be disar-

ranged. By my improvement I overcome this difficulty.

The means I employ is as follows: D designates springs, which are secured by bolts *d*, or otherwise, one to each of the portions *a b* of the back. They are free to turn about said bolts. E designates retaining-pieces for the ends of the springs when the latter are moved into a position transversely to the length of the frame, or, in other words, so as to exert pressure upon the back. These retaining-pieces are secured to the portion A of the frame, and are provided with portions *e*, which are curved into semicircular form; or, in other words, have convex upper and concave lower sides. The ends of the springs D are moved beneath the retaining-pieces and spring up into the concavity upon the lower sides thereof, whereby it will be readily seen that the springs will be prevented from being moved out of contact with the retaining-pieces, and the back will be held firmly and immovably in place as long as desired. By rabbeting the inner edge of the frame near the upper side space is provided in which the springs may be moved freely into and out of the retaining-pieces E.

Of course if the retaining-pieces E had convex under sides and the ends of the springs D had concave upper sides adapted to fit over the convex under sides of the retaining-pieces the effect would be the same.

What I claim as my invention, and desire to secure by Letters Patent, is—

In a photographic-printing frame, the combination, with a main frame provided with a rabbet upon its inner edge, near its upper side, of a back, springs having a swiveling connection with said back, and whose ends have curved upper sides, and retaining-pieces upon the rabbeted portion of the main frame, having curved under sides for engaging the ends of the springs, substantially as specified.

W. IRVING ADAMS.

Witnesses:

JOSEPH BARTON,
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