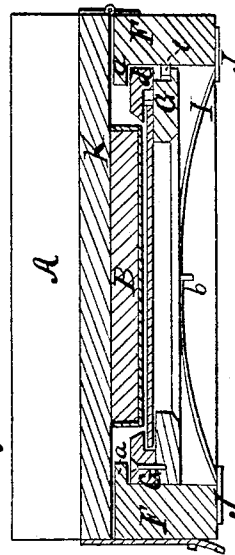
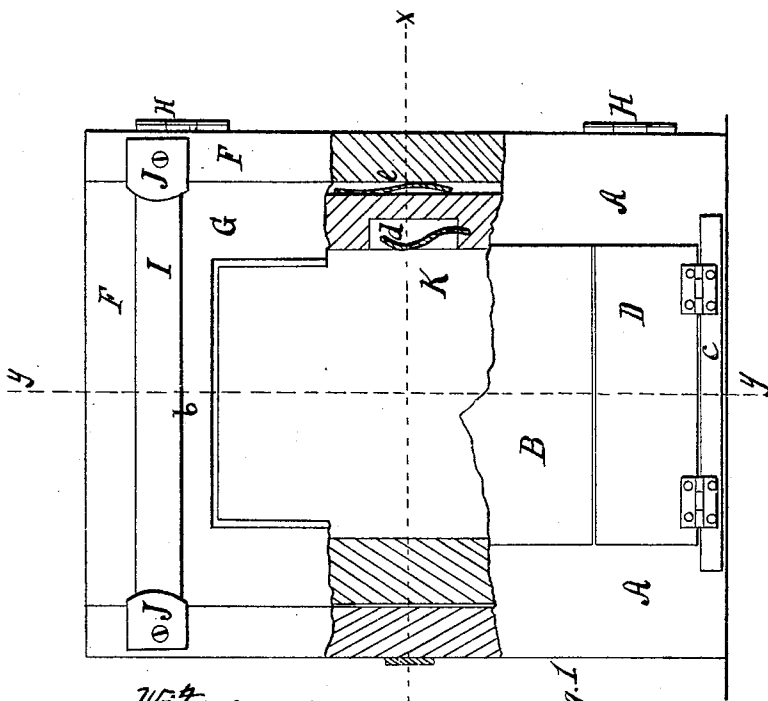
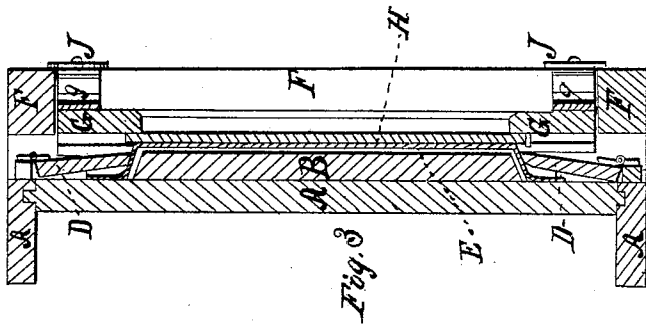


L. E. Denison,

*Photographic Printing Frame,
No. 51,699, Patented Dec. 26, 1865.*



Witnesses
Wm. Brown
Thos. Luech

Inventor
L. E. Denison
By [Signature]

UNITED STATES PATENT OFFICE.

L. E. DENISON, OF WINTHROP, CONNECTICUT.

PRESSURE-FRAME FOR PHOTOGRAPHIC PRINTING.

Specification forming part of Letters Patent No. 51,699, dated December 26, 1865.

To all whom it may concern:

Be it known that I, L. E. DENISON, of Winthrop, in the county of Middlesex and State of Connecticut, have invented new and useful Improvements in Pressure-Frames of Photographic Apparatus; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable those skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 is a plan view, partially in section, of my improved pressure-frame. Fig. 2 is a cross-section through the line *x x*, Fig. 1. Fig. 3 is a longitudinal section through the line *y y*, Fig. 1.

Similar letters of reference indicate corresponding parts.

The object of my invention is to furnish a pressure or printing frame of a photographic apparatus in which the frame may be opened and the picture or representation examined without disturbing the position of the paper or interfering with the successful result of the operation; and it consists in making the cushion stationary, in combining therewith two or more clasps for holding the paper, in making the negative-frame movable, and in combining therewith springs for regulating the pressure during the operation.

A is the main frame, which supports the cushion B, and to which said cushion is immovably attached. The cushion B is covered with cloth in the usual way, and may be provided with one or more detached pieces of cloth, to be used as occasion may require.

To the upper surface of the frame A, near its ends, are attached pieces C, to which are hinged the clasps D for holding the paper E in its place upon the cushion B while the frame is being closed or opened to allow the work to be examined. The edges of the cushion B are made inclined or beveled, and the edges of the clasps D, which impinge upon said cushion, are made inclined, beveled, or rounded, so as to clasp the paper and hold it firmly, no matter how thick the paper is or how many thicknesses of cloth may be placed on the cushion under the paper. The drawings represent the frame as being provided with clasps only at the ends of the cushion; but if the

frame is large it may be advisable to apply a clasp at each of the four edges of the cushion B. The paper E is applied by placing it smoothly upon the cushion B. One of the clasps D is then pressed down into the position represented in Fig. 2. The paper is then smoothed down upon the cushion by passing a straight-edge over it, or in any other convenient way.

F is the frame which holds the movable spring negative-frame G, and is hinged to the frame A, as represented, at the points H, Fig. 1. The movable negative-frame G rests upon shoulders projecting inward from the sides of the frame F, and is held in place by the action of the springs I. The springs I are kept in place by their ends resting against the catches J. The catches J are secured to the sides of the frame F, as represented in Fig. 1. By removing the catches J from the frame F the movable frame G may be taken out when required.

The springs are kept in place by the pins *b*, against which the sides of the said springs rest. The pins *b* also keep the frame G from moving longitudinally in the frame F.

The frame G is secured against lateral movement by the action of the small spring *c*, placed in a recess chambered out in the outer edge of the frame G, as represented in Fig. 1; or said recess may be formed in the inner edge of the frame F.

d is a small spring for holding the glass K and the negative in place and preventing displacement during the operation.

By means of my improvements the paper is held smoothly and immovably upon the cushion during the operation, and also while the frame is being opened and the work examined.

I claim as new and desire to secure by Letters Patent—

1. The combination of the stationary cushion B with the pressure-frame of photographic apparatus, substantially as described, and for the purpose set forth.

2. The combination of the clasps D, two or more, with the stationary cushion B in the pressure-frame of a photographic apparatus, substantially as and for the purpose set forth.

3. The combination of the movable spring negative-frame G with the frame F, and stationary cushion B in the pressure-frame of a

photographic apparatus, substantially as described, and for the purpose set forth.

4. The combination of the springs I, or their equivalent, with the movable negative-frame G and the frame F in the pressure-frame of a photographic apparatus, substantially as described, and for the purpose set forth.

The above specification of my invention signed by me this 13th day of September, 1865.

L. E. DENISON.

Witnesses:

M. M. LIVINGSTON,
C. L. TOPLIFF.