

W. D. BOYCE.

Photographic Embossing Presses.

No. 152,722.

Patented July 7, 1874.

Fig: 1.

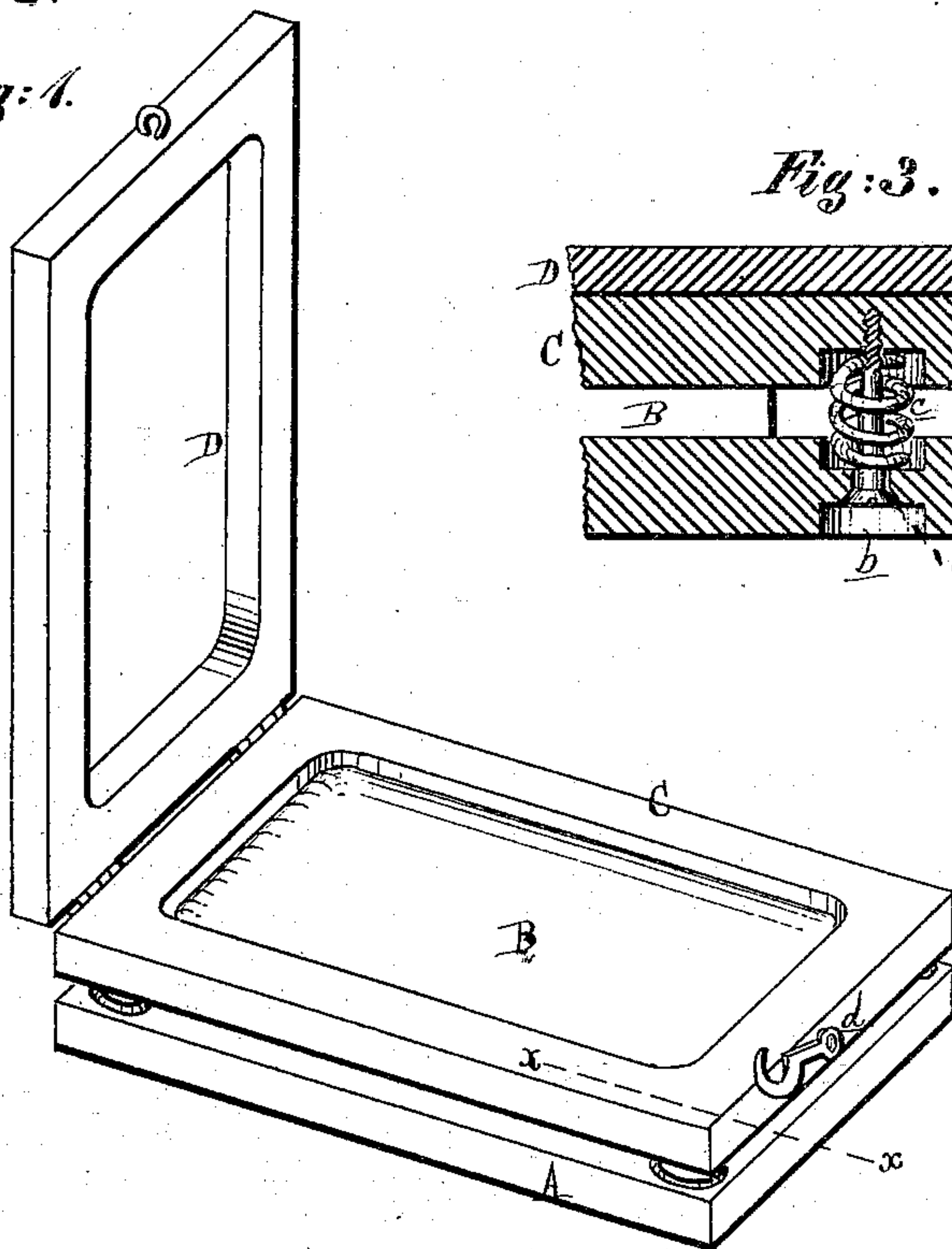


Fig: 3.

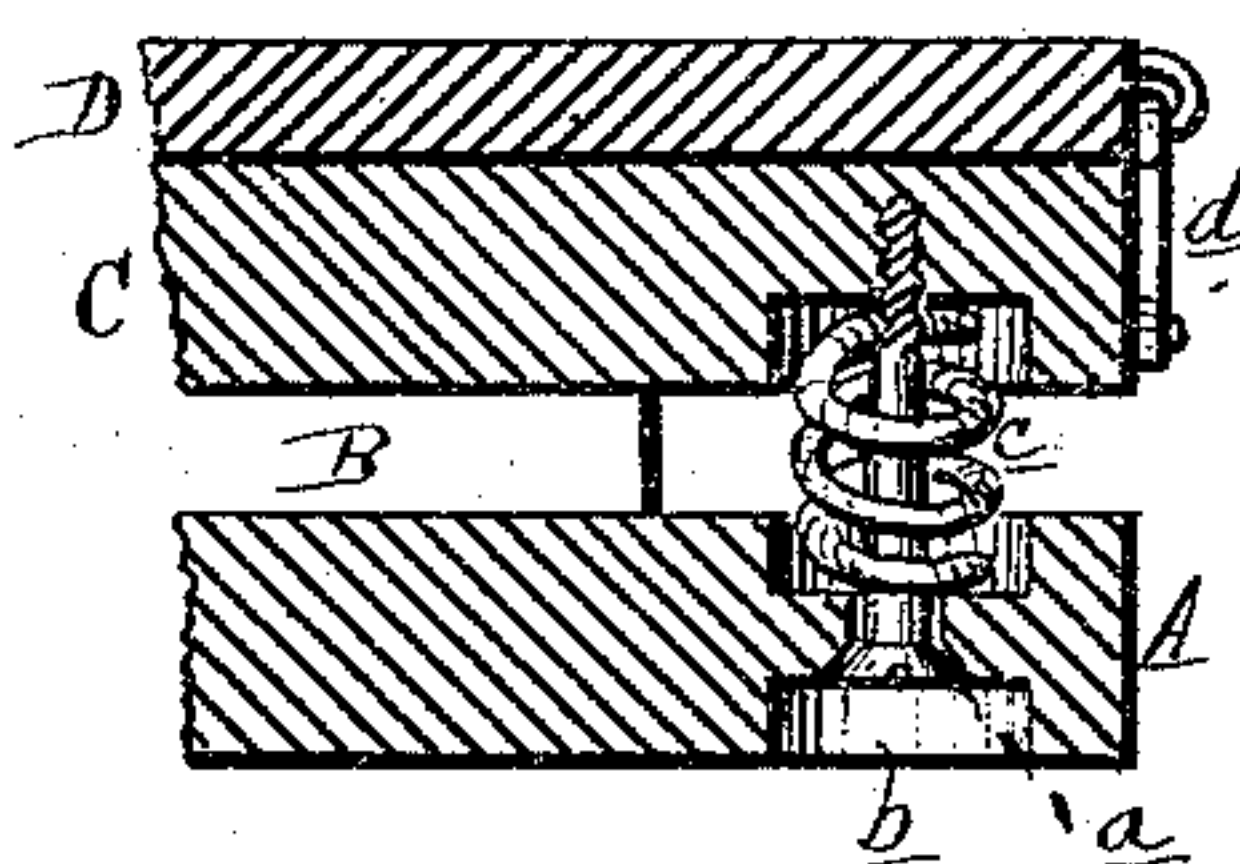


Fig: 2.

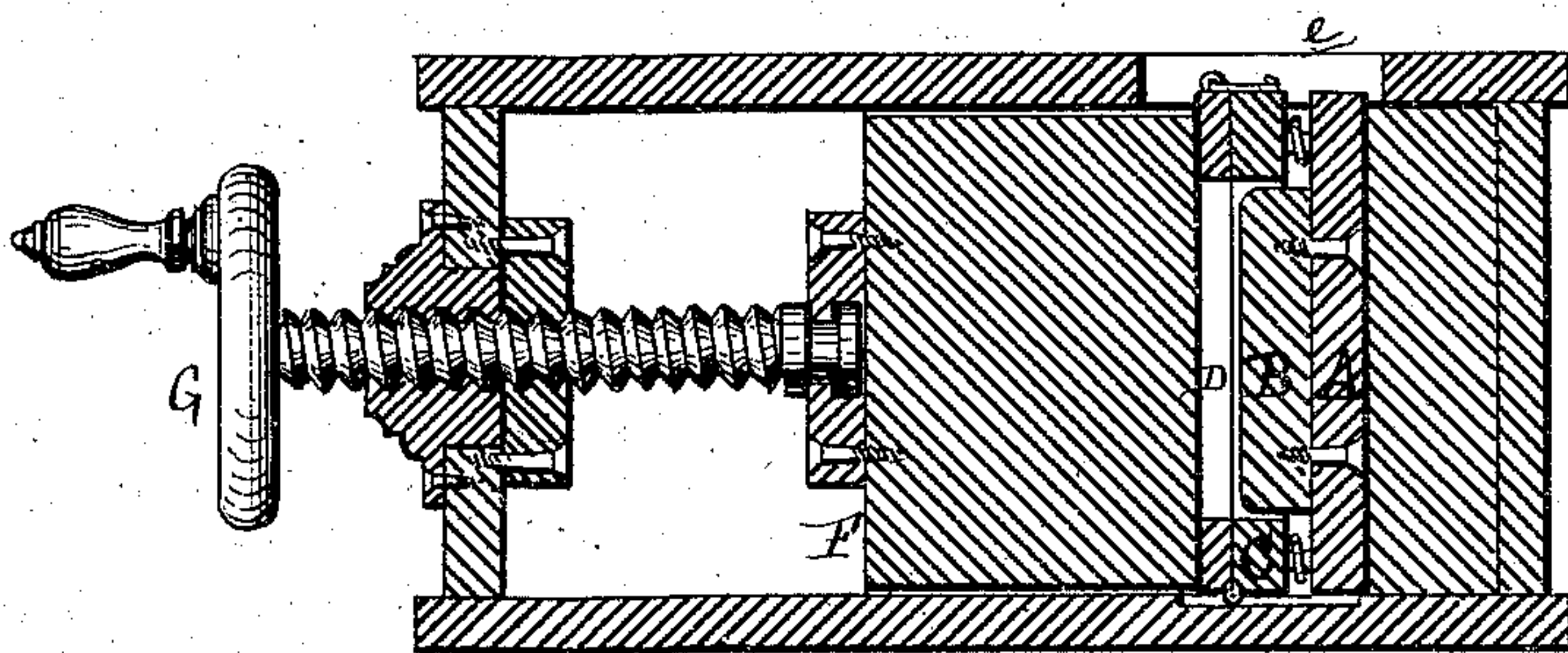
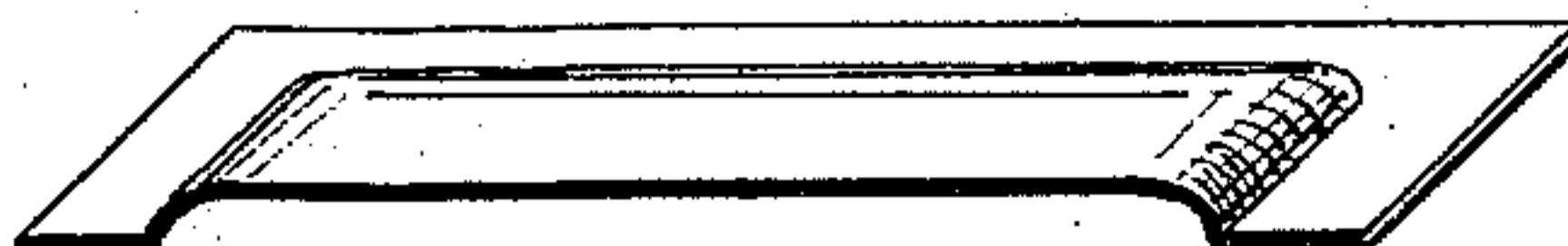


Fig: 4.



Attest.
C. E. L. Garrison
J. H. Davis

Inventor
W. D. Boyce
By Attorney
Thos. S. Sprague

UNITED STATES PATENT OFFICE.

WILLIAM D. BOYCE, OF CHICAGO, ILLINOIS.

IMPROVEMENT IN PHOTOGRAPHIC EMBOSSING-PRESSES.

Specification forming part of Letters Patent No. **152,722**, dated July 7, 1874; application filed June 8, 1874.

To all whom it may concern:

Be it known that I, WILLIAM D. BOYCE, of Chicago, in the county of Cook and State of Illinois, have invented an Improved Press for Embossing Photographs, of which the following is a specification:

The nature of my invention relates to an improvement in presses and dies for producing a raised surface on photographic portraits which are known in the art as cameo or medallion pictures. The invention consists, first, in the peculiar construction of the matrix, die, and platen; and, secondly, the press to be used in connection therewith, for raising a portion of the surface of a picture.

Figure 1 is a perspective view of the matrix, die and open platen or picture-holder, ready to receive a picture. Fig. 2 is a longitudinal section of the press with the matrix-frame inserted. Fig. 3 is a section of one corner of the matrix-frame at *x x*, showing the spring. Fig. 4 is a sectional perspective view of an embossed picture-card.

In the drawing, A represents a plate, having a die, B, of any desired form, secured to its face. C is the platen, having an opening, in which is received the die; it is secured at each corner to the plate A by a screw, *a*, inserted from the bottom of the latter, the head of the screw resting in a countersunk socket, *b*, and a spiral spring, *c*, being interposed between the plate and platen at each corner, keeps them apart far enough to prevent the die from projecting over the platen,

unless the said springs are forcibly compressed. D is a matrix, hinged at one end to the platen, and when a picture is laid on the latter, it is brought down over it and secured at the front end by a hook, *d*. The picture should be laid on the platen face side up. E is a strong box, having an opening, *e*, in the front for inserting the die, matrix, and attachments, the plate A resting on the bottom of the box. F is a follower, actuated by a screw, G, or a cam or equivalent device, the screw being tapped through the nut in the top of the box. Under the pressure of the screw applied to the matrix, the platen-spring *c* yields, when the borders of the picture under the matrix will be pressed down around the die, which brings up the central part over the die into a cameo-like relief, producing a very beautiful effect, especially in highly polished or enameled photographic portraits.

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

1. The plate A, die B, platen C, hinged matrix D, screws *a*, and springs *c*, constructed and arranged substantially as described, for the purpose specified.

2. In combination with the plate A, die B, platen C, and hinged matrix D, the box E, follower F, and screw G, constructed and arranged substantially as shown and set forth.

WILLIAM D. BOYCE.

Witnesses:

EDWIN L. BRAND,
WM. H. LOTZ.