B. B. HUNTOON.

Casting Stereotype-Plates.

No. 213,427. Patented Mar. 18, 1879.

Fig. 1

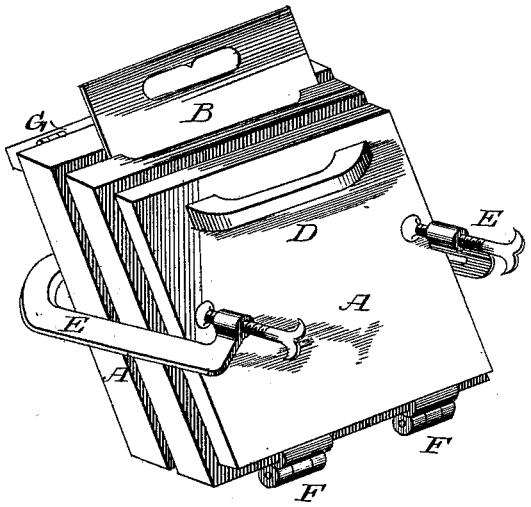


Fig. 2.

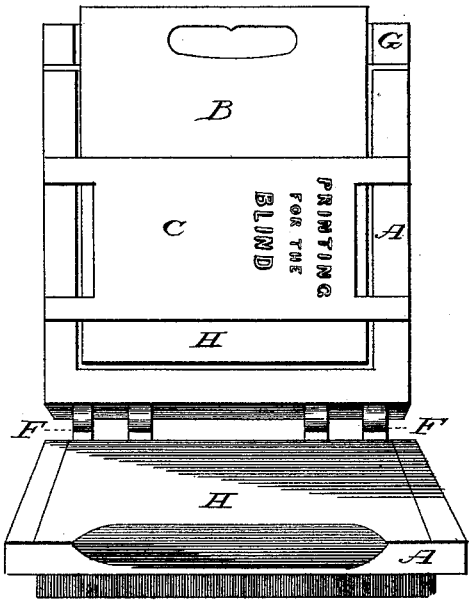
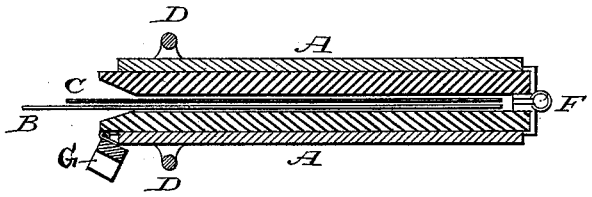


Fig. 3.



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UNITED STATES PATENT OFFICE.

BENJAMIN B. HUNTOON, OF LOUISVILLE, KENTUCKY.

IMPROVEMENT IN CASTING STEREOTYPE-PLATES.

Specification forming part of Letters Patent No. **213,427**, dated March 18, 1879; application filed January 22, 1878.

To all whom it may concern:

Be it known that I, BENJAMIN B. HUNTOON, of the city of Louisville, in the county of Jefferson and State of Kentucky, have invented a certain new and useful Improvement in Casting Stereotype-Plates, to be used in printing books and for other similar purposes; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification, and to the letters of reference marked thereon.

Figure 1 is a perspective view of the flask when closed ready to receive the metal in casting plates. Fig. 2 is a view of the flask when open, showing the movable back-plate and paper pattern between the parts. Fig. 3 is a sectional view of the flask, showing the paper pattern or mold and back-plate under it.

This my invention relates to a new and useful improvement in casting stereotype-plates, by means of which the positive and negative may be cast at nearly one and the same time from opposite faces of the same form or pattern, which pattern is made of paper, with the letters or characters raised upon one face, and the same letters or characters sunken or depressed in the other face; the object being an improved step in the familiar process of casting stereotype-plates, wherein they require little or no finishing up thereafter to put them in condition ready for use.

In the before-referred-to drawings, A A is the flask, which is made of metal, covered with wood, and in form as shown in the drawings, with the several parts hinged together at the side to close up similarly to a book, each part having a recess in its face to correspond with the required thickness of the plates to be cast. The bottoms or faces of these last-named recesses H H are covered with a smooth non-conducting substance, such as paper or other suitable material that will leave a perfectly-smooth surface on the plate when cast. B is the backing-plate, for supporting the paper pattern while the first plate is being cast, but is afterward drawn out and the space filled with the metal, thereby forming the positive plate before the negative is taken out of its place. This plate B is made of metal, of sufficient thickness to correspond with the required thickness of the plates, and is made to slide easily within the recess H of the flask.

C is the paper pattern, which is large enough to cover the entire face of the flask, and is held firm between the parts in casting plates. This pattern C is provided with raised and sunken or depressed letters on its faces, as hereinbefore described, which letters are formed by running it through a suitable printing-press arranged for the purpose.

In arranging the mold for casting plates the paper pattern C is placed between the parts of the flask, and is secured in that position by means of the clamps E E, with the plate B at its back to support it while the first plate is being cast. As soon as the metal in the first plate is sufficiently chilled, the plate B is drawn out and the space filled with metal, thereby forming the positive before the negative plate is removed. By casting these plates on smooth paper surfaces they are so perfect as to require little or no labor in finishing them ready for use.

D D are the handles of the flask. F F are the hinges. G is a piece hinged to the top of the flask, to prevent waste of metal in pouring.

Having thus fully described the nature and object of this my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. As an improvement in the art of stereotyping, a flask having a paper pattern, and a metallic or other plate arranged to support such pattern while the negative is being cast, and adapted to be withdrawn, so as to permit the casting of the positive from the back of the same pattern in the same mold, substantially as described.

2. The process of casting stereotype-plates, consisting in supporting a paper pattern within a flask, pouring in metal to form the negative, removing the primary support of the pattern after the negative is formed, and depending upon the cast negative as a substitute pattern-support, and then casting the positive from the said pattern, substantially as described.

BENJAMIN B. HUNTOON.

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