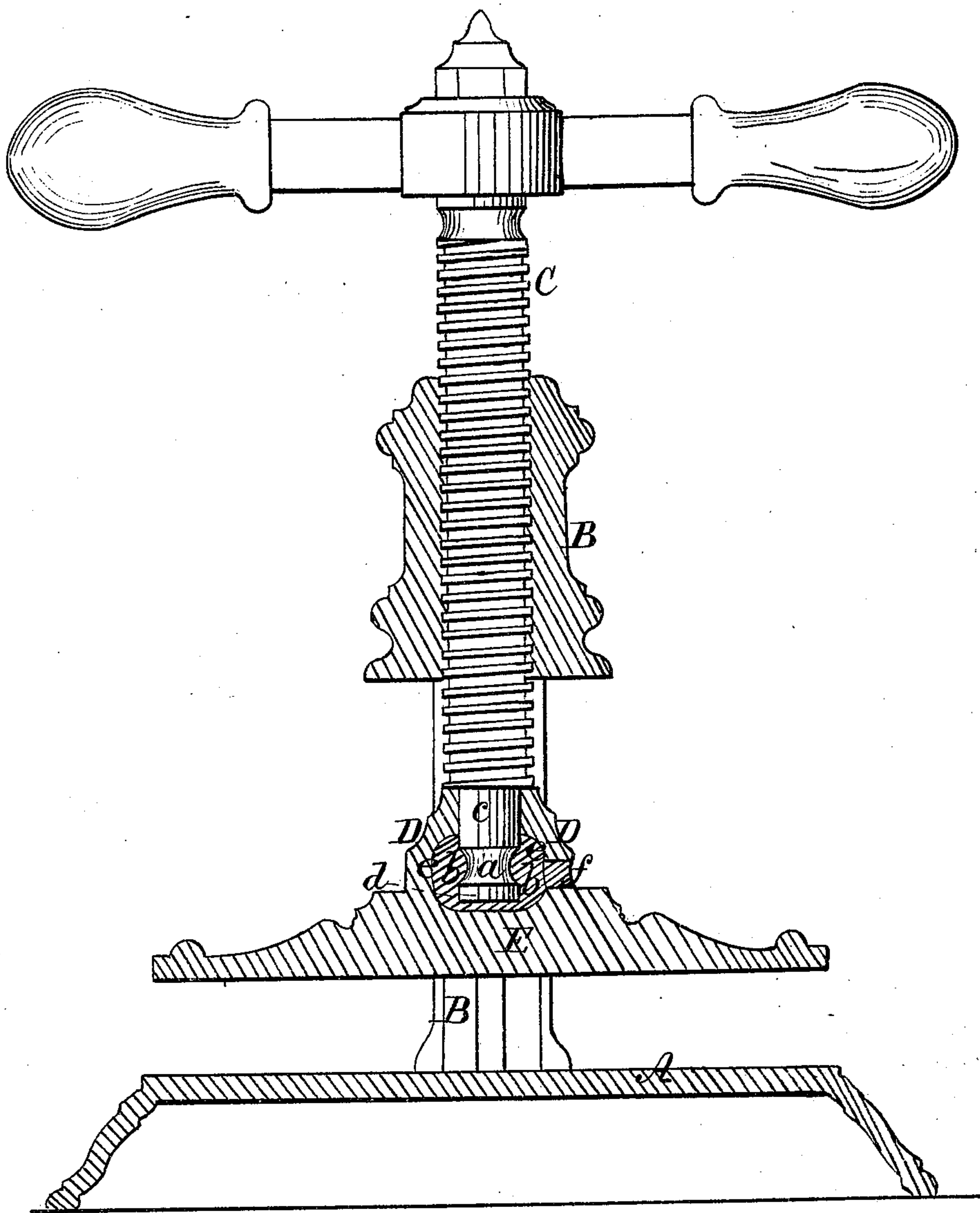


*F. Hovey.*  
*Coining Press.*  
*N<sup>o</sup> 42,141. Patented Mar. 29, 1864.*



*Witnesses.*

*Henry T. Brown*  
*John H. Douglas*

*Inventor.*

*Francis Hovey*

# UNITED STATES PATENT OFFICE.

FRANCIS HOVEY, OF NEW YORK, N. Y., ASSIGNOR TO E. W. FROST, OF  
SAME PLACE.

## COPYING-PRESS.

Specification forming part of Letters Patent No. 42,141, dated March 29, 1864.

*To all whom it may concern:*

Be it known that I, FRANCIS HOVEY, of the city, county, and State of New York, have invented a new and useful Improvement in Copying-Presses; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawing, forming part of this specification, said drawing representing a vertical section of a press with my improvement.

In copying-presses the platen is attached to the pressure-screw by means of a socket termed a "foot-piece," in which the screw is obliged to turn freely. The foot-piece is commonly made of a separate piece of brass, and secured rigidly by screws to the platen, and attached to the screw by turning a groove in the lower part of the screw, and casting a groove in the interior of the foot-piece and pouring zinc or other easily fusible metal or alloy into the said grooves through a hole provided in the bottom of the foot-piece, before the latter is attached to the platen.

The object of my invention is to make a cheaper connection between the screw and the platen; and to this end it consists in having the upper surface of the platen, at its center, provided with a chamber for receiving the soft metal.

To enable others skilled in the art to construct presses according to my invention, I will proceed to describe it with reference to the drawing.

A is the bed of the press and B the bridge containing the nut or female screw-thread, in which the pressure-screw C works in the usual manner. The screw is made of the usual form, its lower part being reduced in diameter below the diameter of the core or bottom of the thread, as shown at *c d*, and having turned in

it the groove *a* for the reception of the zinc or other fusible metal or alloy *b*, which attaches it to the foot-piece.

D is the foot-piece, cast in the same piece with the platen E, cast hollow and with a groove or soft-metal chamber, *e*, all around the lower part of its interior for the reception of the zinc or other fusible soft metal or alloy *b*. The upper part of the soft-metal chamber *e* is bored truly to fit easily to the plain portion *c* of the screw, and it has a hole, *f*, drilled through one side, through which to pour the metal or alloy *b* after the screw is put in. The metal or alloy *b* remains fixed in the soft-metal chamber *e* and the screw turns freely within it in the usual manner.

By having the soft-metal chamber *e* arranged in the upper surface of the platen, as shown, I effect a considerable economy in metal, and the expense of facing up the bottom of the foot-piece and top of the platen and of fitting the screws for attaching the foot-piece to the platen are saved, while the attachment of the screw to the platen is made just as strong and durable and in all respects as good.

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

As an improvement in copying-presses, the combination of the following elements, to wit: the plate E and socket D, cast in one piece, the screw C, formed with a journal, *c d*, and groove *a*, and the soft-metal filling *b*, introduced through an aperture, *f*, into the chamber *e* of the socket D, all as herein specified, and for the purposes explained.

FRANCIS HOVEY.

Witnesses:

HENRY T. BROWN,  
J. W. COOMBS.