No. 724,116. PATENTED MAR. 31, 1903.

H. A. MALEY.

PLATE HOLDER FOR PRINTING PRESSES.

APPLICATION FILED NOV. 20, 1902.

NO MODEL.

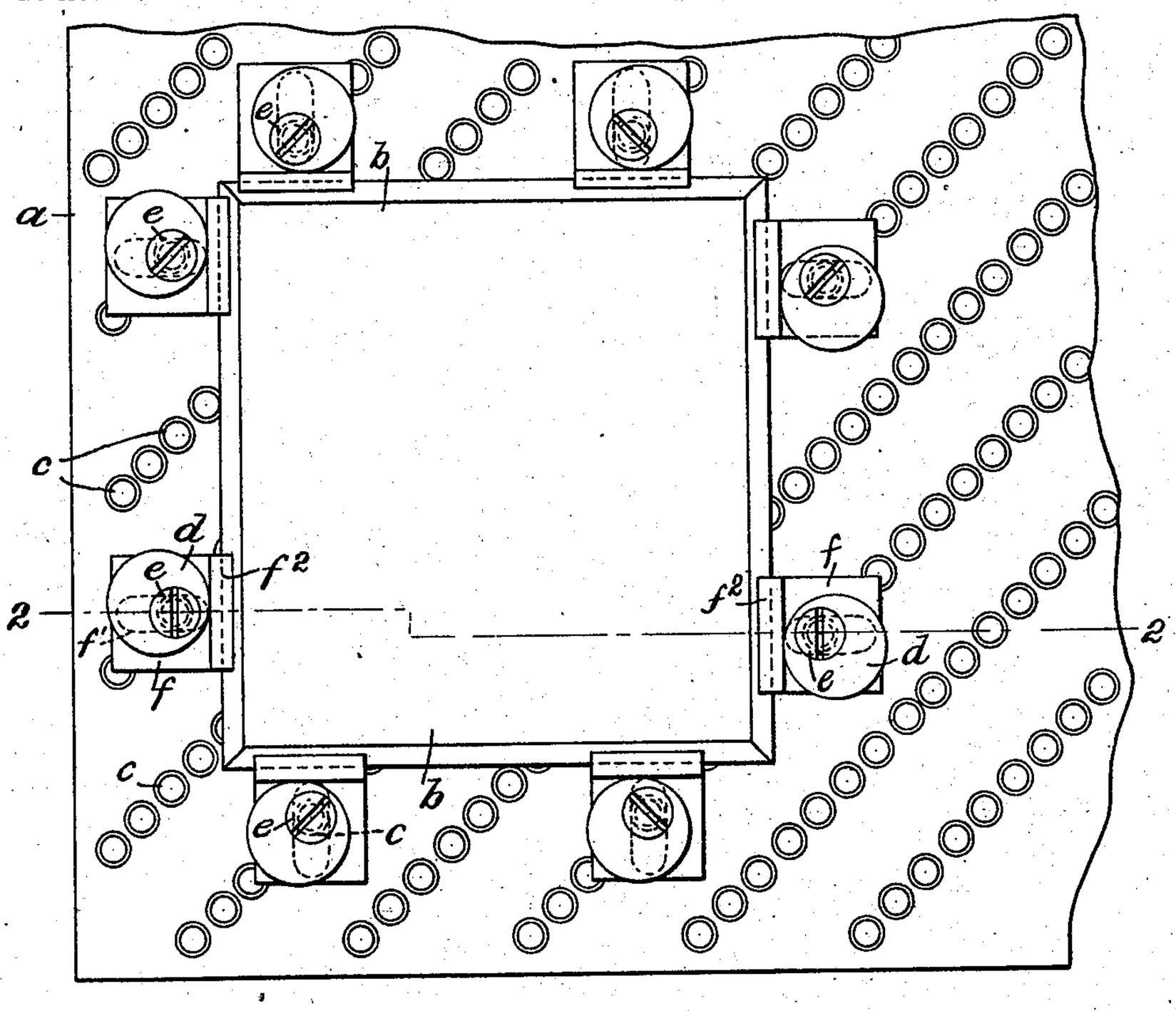

Fig. 1.

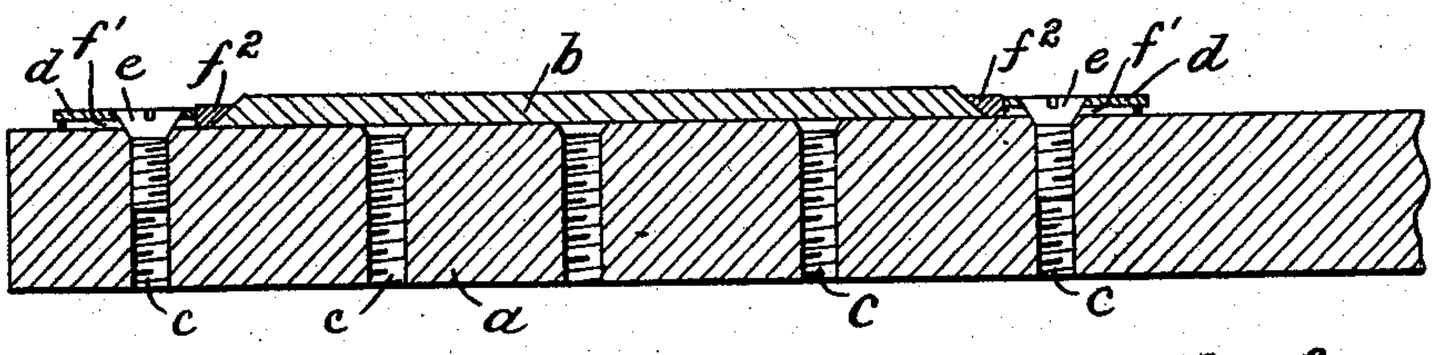

Fig. 2.

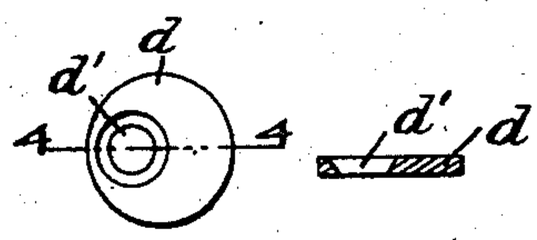

Fig. 3.

Fig. 4.

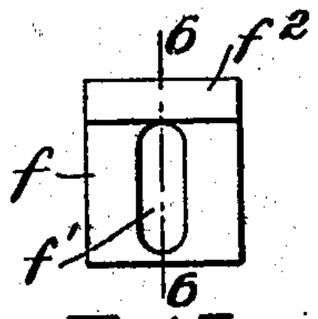

Fig. 5.

Fig. 6.

WITNESSES.

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UNITED STATES PATENT OFFICE.

HENRY A. MALEY, OF BOSTON, MASSACHUSETTS.

PLATE-HOLDER FOR PRINTING-PRESSES.

SPECIFICATION forming part of Letters Patent No. 724,116, dated March 31, 1903.

Application filed November 20, 1902. Serial No. 132,051. (No model.)

To all whom it may concern:

Be it known that I, HENRY A. MALEY, of Boston, in the county of Suffolk and State of Massachusetts, have invented certain new and useful Improvements in Plate-Holders for Printing-Presses, of which the following is a specification.

This invention relates to holders for electrotype or other printing plates while the same are in use in a printing-press; and it has for its object to provide a simple and efficient means for holding plates of any size within the capacity of the press and in any position that may be desired.

The invention consists in the improvements which I will now proceed to describe and claim.

Of the accompanying drawings, forming a part of this specification, Figure 1 represents a plan view of a part of the block portion of my improved holder with a plurality of clamping members engaged therewith, the whole constituting an embodiment of my invention. Fig. 2 represents a section on line 2 2 of Fig. 1. Fig. 3 represents a plan view of one of the eccentric clamping members. Fig. 4 represents a section on line 4 4 of Fig. 3. Fig. 5 represents a plan view of one of the slotted shoes. Fig. 6 represents a section on line 6 6 of Fig. 5.

The same reference characters indicate the same parts in all the figures.

In the drawings, *a* represents a block adapted to support one or more electrotype or other printing plates *b*. The block *a* is preferably made of cast-iron and is formed to rest upon the bed of the press. In the block *a* are formed a large number of screw-threaded orifices *c*, the same being arranged in diagonally-extending rows, as shown in Fig. 1, the holes of each row being arranged close together.

d d represent clamping-disks, each of which is provided with an eccentrically-arranged orifice *d'*, adapted to receive a screw *e*, the screw being formed to engage the thread of either of the orifices *c*. The flat under side of each clamping-disk bears upon a flat seat formed by the upper side of a shoe *f*, which bears on the block *a*. Said shoe has a flange f^2 at its inner edge, one side of the flange forming a straight shoulder. The inner edge of the shoe is thickened by said flange and is beveled to bear against the beveled edge of the printing-plate *b*. The shoe also has a slot *f'* to receive the shank of the screw *e*, said slot extending at right angles to the shoulder. It will be seen that a slight rotation of the disk *d* on the screw *e* moves the perimeter of the disk toward or from the margin of the printing-plate. When the screw is loosened, such movement of the clamp is readily permitted, and when the screw is tightened the disk clamps the shoe against the block and firmly holds it in any position to which it may have been adjusted.

It will be seen from the foregoing that when a printing-plate *b* is to be attached to the block *a* the mode of procedure is as follows: The plate is first located, and then a suitable number of the clamping devices above described are applied to the block *a* in positions required to engage them with the beveled margins of the printing-plate. The disposition of the threaded orifices *c* in diagonal rows, the holes of each row being close together, together with the adjustability afforded by the clamping-disks *d*, rotatable upon the screws *e*, enables all the edges of the plate to be securely held whatever may be the location of the plate upon the block *a*.

The location of the eccentric clamping-disks above the shoes, so that the perimeter of said disks are exposed, enables the disks to be conveniently manipulated by the fingers in adjusting the shoes to the printing-plate. This accessibility of the clamping-disks is a matter of much importance, because it greatly facilitates the operation of securing a plate or a series of plates to a block and enables said operation to be much more quickly performed than would be possible if the shoe were recessed or provided with an enlarged orifice adapted to receive the disk and cover the edge thereof.

I claim—

A plate-holding block having screw-threaded orifices arranged in rows, plate-locking shoes formed to bear on said block, said shoes

having flat upper surfaces or seats, shoulders extending across the inner ends of the seats, and slots extending substantially at right angles with the shoulders, screws formed to pass through said slots and to engage the orifices in the block, and flat clamping-disks the under sides of which bear on said seats, while their peripheries are accessible above the seats and bear on the shoulders, said disks having eccentric orifices receiving the screws.

In testimony whereof I have affixed my signature in presence of two witnesses.

HENRY A. MALEY.

Witnesses:
C. F. BROWN,
E. BACHELDER.