

(No Model.)

H. FIETSCH, Jr.
STEREOTYPE PLATE HOLDER.

No. 449,039.

Patented Mar. 24, 1891.

Fig. 1.

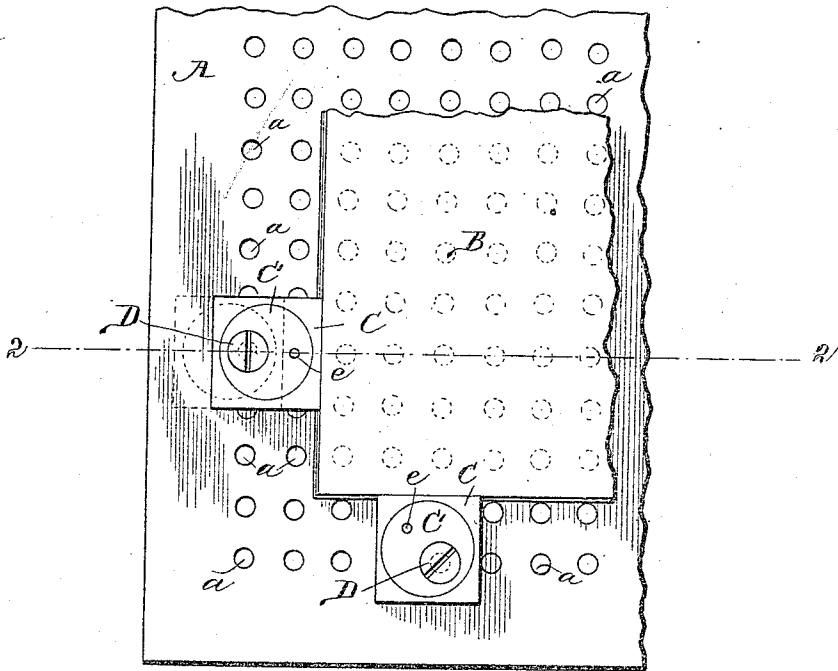


Fig. 2.

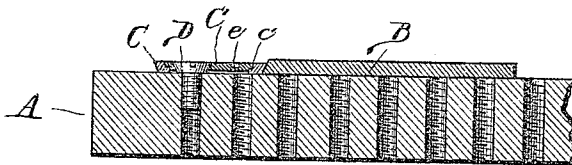
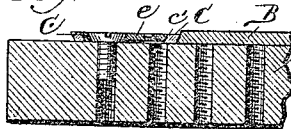


Fig. 3.



Fig. 4.

Fig. 5.



Witnesses
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HERMAN FIETSCH, JR., OF CHICAGO, ILLINOIS, ASSIGNOR TO DANIEL W. RYAN, OF SAME PLACE.

STEREOTYPE-PLATE HOLDER.

SPECIFICATION forming part of Letters Patent No. 449,039, dated March 24, 1891.

Application filed March 12, 1889. Serial No. 302,985. (No model.)

To all whom it may concern:

Be it known that I, HERMAN FIETSCH, JR., of Chicago, in the State of Illinois, have invented certain new and useful Improvements in Stereotype-Plate Holders, of which the following is a specification.

The invention relates to improvements in clamps for securing printing-plates to the base or form block provided with check or cross rows of holes regularly placed so as to approximately meet the edges of the printing-plates when placed in any place thereon for printing; and the object of my improvements is to provide clamps which, when attached by screws in threaded holes of the form-block adjacent to the edges of the plates placed thereon, may be readily adjusted to the plates so as to perfectly fill the space between said holes and the edges of such plates and bear laterally against them, as well as down upon rabbeted or beveled edges thereof. I have attained this object by the use of clamps constructed as illustrated in the accompanying drawings, in which—

Figure 1 represents a portion of the top surface of a form-block provided with threaded holes, as suggested above, and in plan view two clamps of the construction referred to. Fig. 2 is a section taken on line 2 2 of Fig. 1. Figs. 3 and 4 are details showing in perspective the separate parts of the clamp. Fig. 5 is the same as Fig. 2, with the exception that the meeting surfaces of the parts of the clamp are beveled instead of rabbeted.

A designates the form-block provided with threaded holes *a*, regularly spaced and arranged in check or cross rows, so that in whatever place the printing-plate B may be located on such form-block one or more of the holes will coincide with the edges thereof upon all sides, either exactly or approximately, and a number of such plates of uniform size may be secured in book form with marginal spaces intervening between the pages.

The clamps for securing the printing-plates in place consist of an outer plate C, provided with edges adapted to fit over rabbeted or beveled edges of the printing-plates and having a circular opening *c* with a rabbeted or

beveled edge *c'*, and an inner circular plate or disk C', adapted to fill such opening, not quite as thick as the outer plate and having its edge adapted to fit against and bear upon the rabbet or incline of the edge *c'* of the opening of said outer plate, and a screw-hole *c*², placed to one side of the center, whereby said disk may be clamped fast to said outer plate so as to secure the latter upon the form-block by means of a screw D at any of the holes *a*. By turning said disk in the opening of said outer plate on the screw before tightening it down the clamp is adjusted to or moved against or away from the printing-plate, which is held at the desired place on the form-block by clamps at the four edges thereof.

To work perfectly and cover the whole area of the form-block the size of the disks and the deviation of the screw-holes therein from the center should be such relatively to the spaces between the threaded holes of said form-block as to permit the clamp to be moved by a complete rotation of the disk through the entire space between any two rows of said holes.

The disk and its outer plate C, when pressed down together upon the form-block by the screw D, become practically as an integral piece of metal for holding the printing-plate firmly in place without liability of becoming loose; but by a partial turn of the screw backward—a half-revolution will answer—the parts are loosened so as to permit the disk to be turned in the outer plate, and the clamp can then be retracted from the printing-plate, as shown in Fig. 1 by broken lines. The printing-plates can thus be readily taken off the form without taking the screws out of the threaded holes of the form-block in changing plates for different pages.

The disk is provided with a hole *e*, wherein a pointed tool may be entered for turning the disk to tighten the clamp against the edge of the printing-plate. This, however, is hardly essential, as the tightening may be sufficiently done for practical purposes without the use of such tool.

What I claim is—

The combination, with the form-block pro-

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vided with threaded holes regularly spaced
and arranged in check or cross rows, of print-
ing-plate clamps consisting of an outer plate
provided with a circular rabbeted or tapering
5 opening and an inner plate or disk adapted
to fill said circular opening and bear upon
the rabbeted or tapering surface thereof and

having a screw-hole eccentrically placed there-
in and screw for securing the same to the
form-block, substantially as specified.

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Witnesses:

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