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PLATE HOLDER FOR PRINTING PRESSES.

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989,811.

Patented Apr. 18, 1911.

Fig. 1.

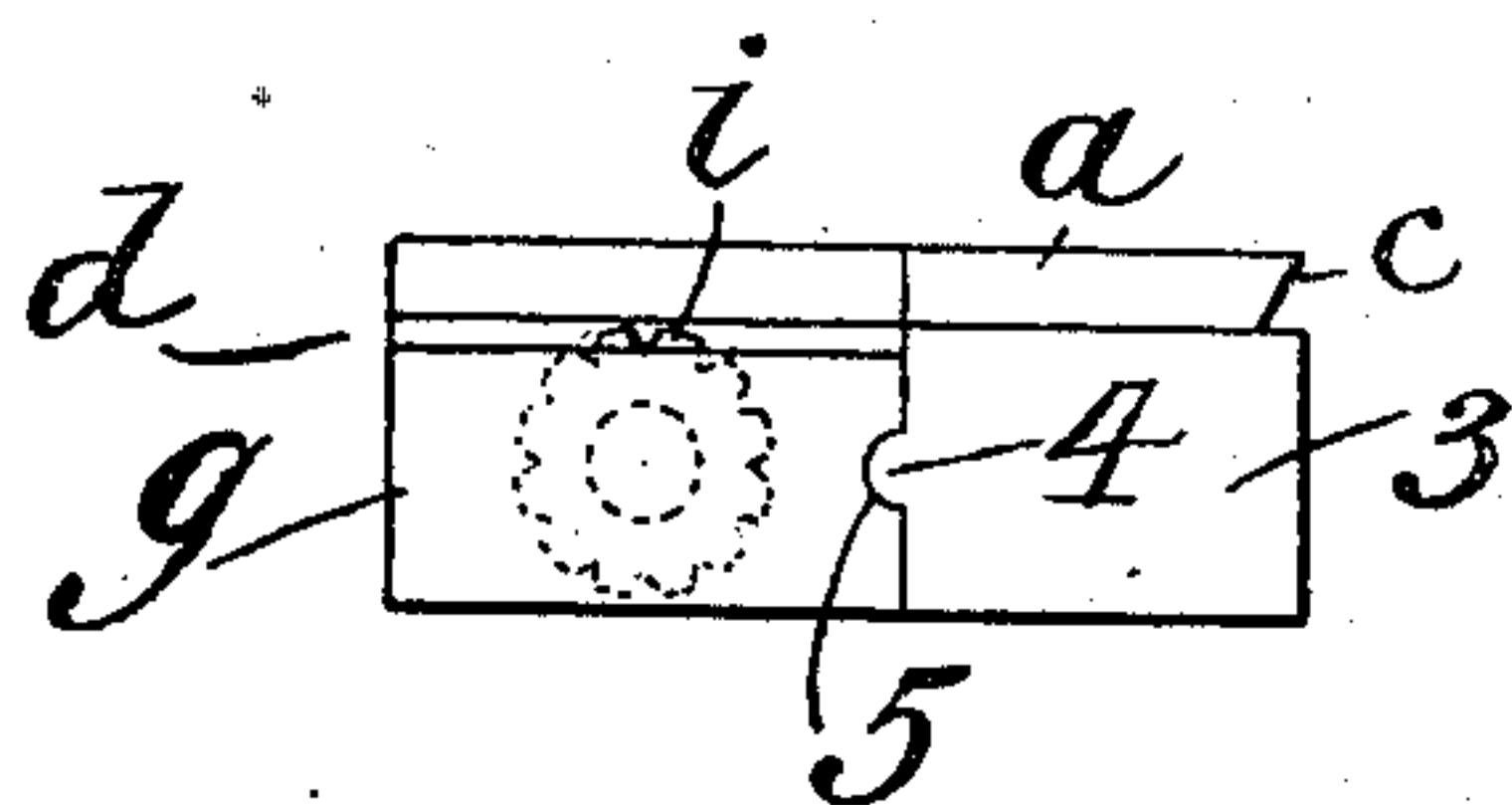
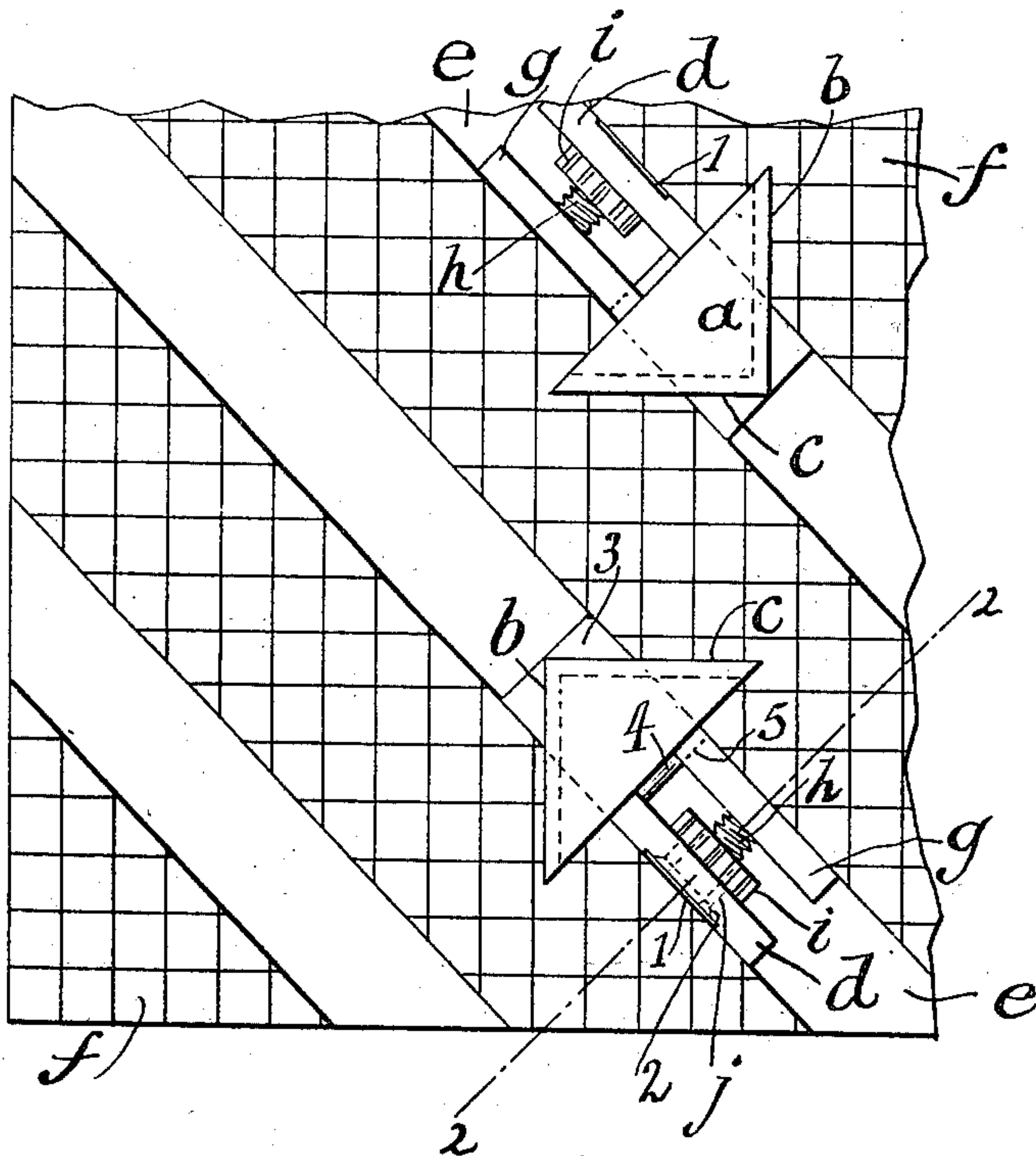


Fig. 3.

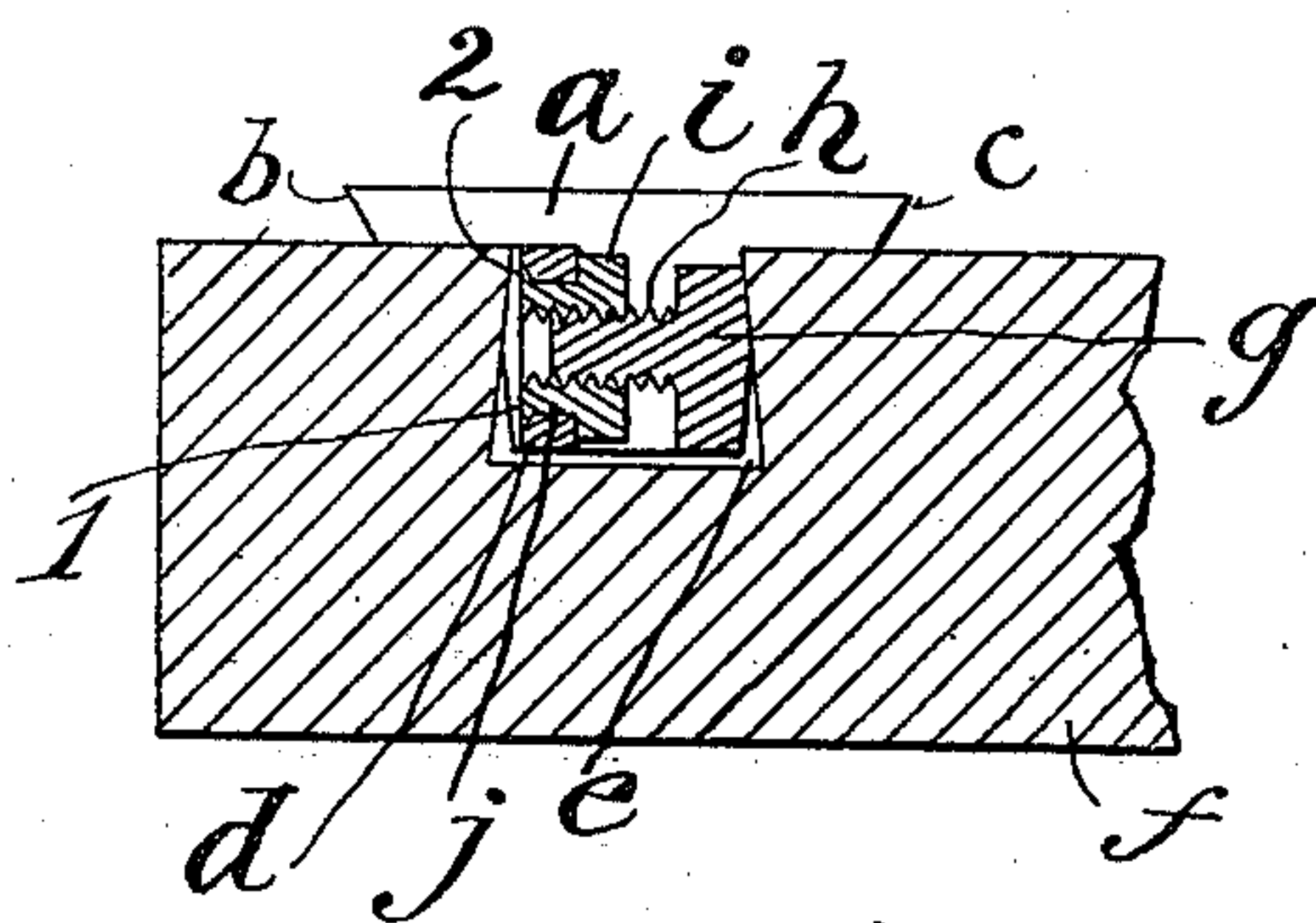


Fig. 2.

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PLATE-HOLDER FOR PRINTING-PRESSES.

989,811.

Specification of Letters Patent.

Patented Apr. 18, 1911.

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To all whom it may concern:

Be it known that we, KARL M. SCHLUETER and FERDINAND SCHLUETER, Jr., citizens of the United States, and residents of New York city, county of New York, and State of New York, have invented certain new and useful Improvements in Plate-Holders for Printing-Presses, of which the following is a specification, reference being had to the accompanying drawing, forming a part thereof, in which similar letters of reference indicate corresponding parts.

This invention relates to plate holders for printing presses of the character having a grooved base for supporting beveled-edged printing plates.

The object of the invention is to provide a device of this character which obviates liability of accidental loosening, and which is susceptible of successive engagement with the four edges of a printing-plate, the same comprising expansible members movable by means of a horizontal screw and nut located below the surface of the base and a triangular clamping-plate having clamping edges extended at right angles to each other whereby the operations of attaching and using the device are facilitated; further the clamping action is direct and the operating nut is not susceptible of accidental loosening, thus providing a device which, when fixed to the base, remains rigidly in place.

The invention will be hereinafter fully described and specifically set forth in the annexed claims.

In the accompanying drawings forming part of this specification, Figure 1, is a plan view of part of a printing press base having two of my improved plate holders attached thereto; Fig. 2, a cross sectional elevation taken on the line 2—2, of Fig. 1; and Fig. 3, is a side view of the device.

As illustrated by the drawings, we employ for directly holding the printing plate a metallic clamping-plate *a*, which is triangular in contour and has two beveled-edges *b* and *c*, extended at right angles from each other, these are for successive engagement with any of the four beveled-edges of printing plates. Said clamping-plate *a*, forms part of a laterally extended and downwardly directed member *d*, having a side contour adapted for snugly registering with one of the side walls of a groove, as *e*, formed in the base *f*. In the drawings we have shown a base having dove-tailed grooves, but our

device is susceptible of successful operation in connection with bases having other shaped grooves, as grooves having vertical side walls and grooves having compound-curved side walls. In such cases it is simply necessary to provide the member *d*, and the plate *g*, hereinafter described, with outer surfaces of a contour adapted to register with the side walls of the groove employed.

Extended parallel with the member *d*, is a plate *g*, having a horizontal screw *h*, formed integral therewith. On this screw is threaded a nut *i*, which is formed integral with a sleeve *j*, which is in pivotal engagement with the member *d*, said member *d* having a recess 1, flush with the counter-sunk head 2, of the sleeve *j*, whereby said head does not contact with the side walls of the grooves of the base when the device is attached. The said plate *g*, having a side surface formation adapted to register with the side wall of the groove employed, whereby the device may be securely clamped and held within said groove. The part 3, of the member *d*, is provided with a tongue 4, which engages a groove 5, of the plate *g*, whereby said plate is maintained in alinement and prevented from turning on the screw *h*, while the device is being operated.

In the operation and use of the invention; by turning the nut *i*, in one direction the screw *h*, and its clamping plate *g*, will move away from the member *d*, thus expanding the device and securely clamping the member *d* and plate *g*, within the groove *e*, of the base *f*. To remove it a few turns of the nut in an opposite direction is all that is necessary. The direct and positive horizontal movement of the clamping parts admits of so securely fastening the device within a groove of the base that accidental displacement thereof is obviated, while at the same time it is susceptible of rapid operation both as regards attachment and removal.

While we have illustrated the device in connection with a flat base, it is also susceptible of use, in slightly modified form, in connection with a grooved cylindrical base.

Having thus described our invention, what we claim as new, and desire to secure by Letters Patent, is:—

1. A printing plate holder comprising a beveled-edged plate having an integrally formed depending and laterally extended

member adapted for engagement within a groove of a printing press base, and a parallel clamping-member having a horizontal screw, and a nut pivotally engaging first
5 named member and threaded on said screw, said beveled-edged plate adapted for bridging a groove of a printing press base, substantially as shown and described.

2. A printing plate holder comprising a
10 beveled-edged clamping-plate for engaging the printing plate, said clamping-plate adapted to bridge a groove of and be held on parts of the surface of a printing press base located on opposite sides of said
15 groove, said clamping-plate having a depending, integrally formed and laterally-extended member, and a parallel clamping-member having a horizontal screw, and a nut engaging said screw and in pivotal en-
20 gagement with the first named member, the holder adapted to be expanded and clamped within a groove of a printing press base by direct horizontal movement of said screw and its clamping-member, substantially as
25 shown and described.

3. The combination, with a printing-plate holder comprising a clamping-plate having an integrally formed, depending and laterally extended member, a nut in pivotal en-
gagement with said member, and a horizon- 30 tally movable screw threaded through said nut and having a clamping-member on the free end thereof which is parallel with the first named member; of a base having par-
allel grooves, the holder clamped within 35 one of said grooves, and the clamping-plate bridging said groove and bearing on the surface of said base on opposite sides of said groove, substantially as shown and de-
scribed. 40

In testimony that, we claim the foregoing as our invention, we have signed our names in the presence of two witnesses, this seventh day of June, 1910.

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Witnesses:

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Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."
