

(No Model.)

J. J. RAFTER.
CHASE FOR PRINTING PRESSES.

No. 543,562.

Patented July 30, 1895.

Fig.1.

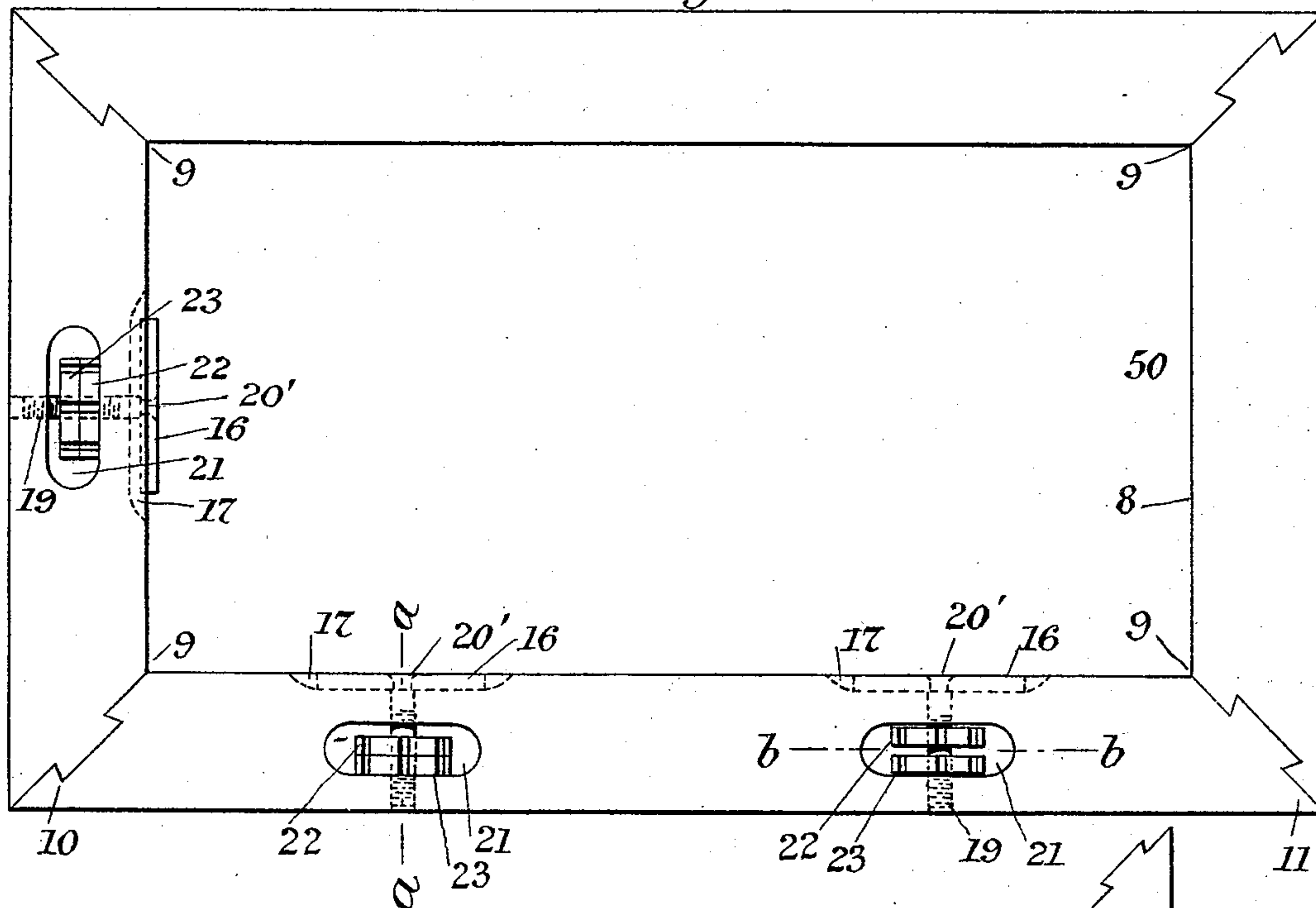


Fig.2.

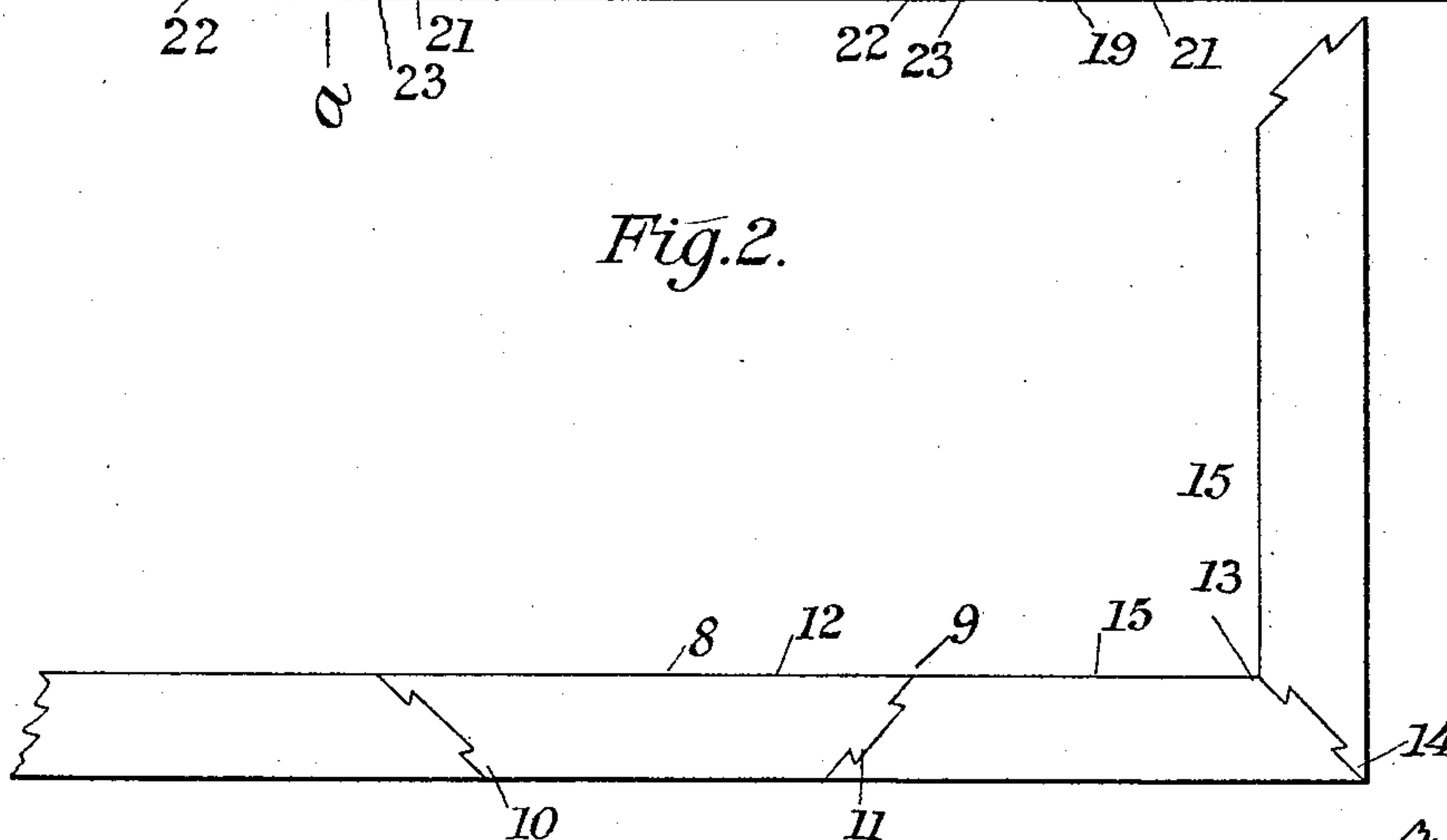
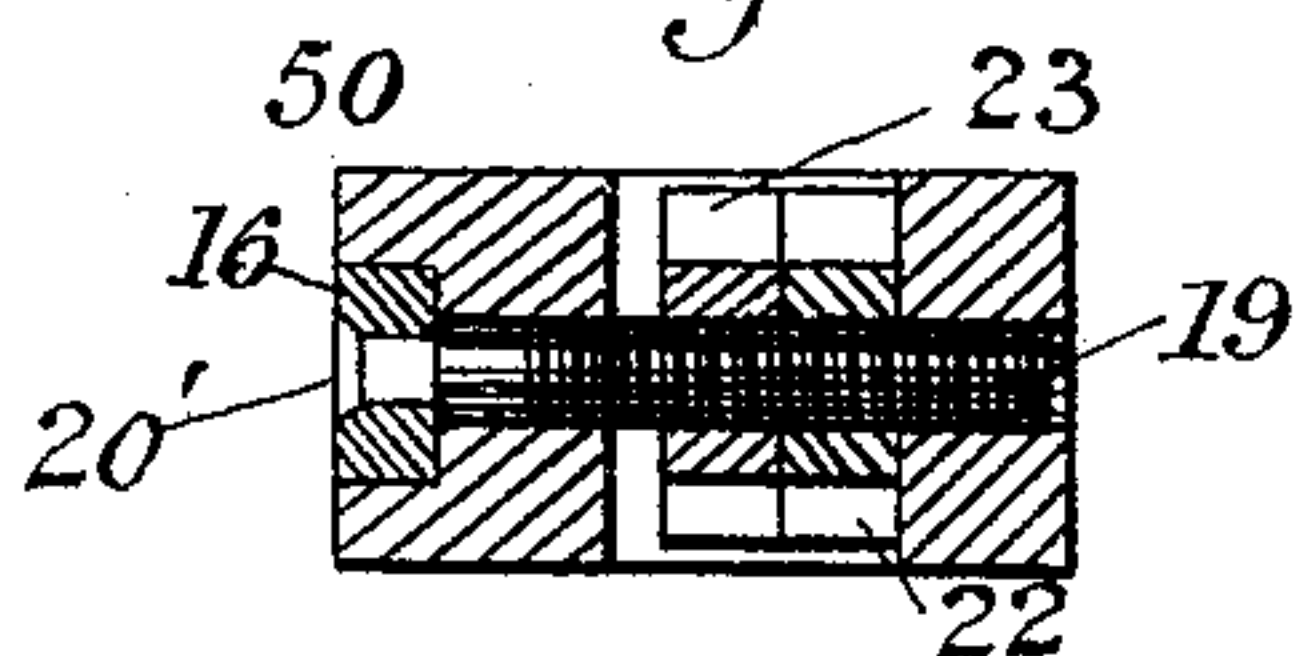
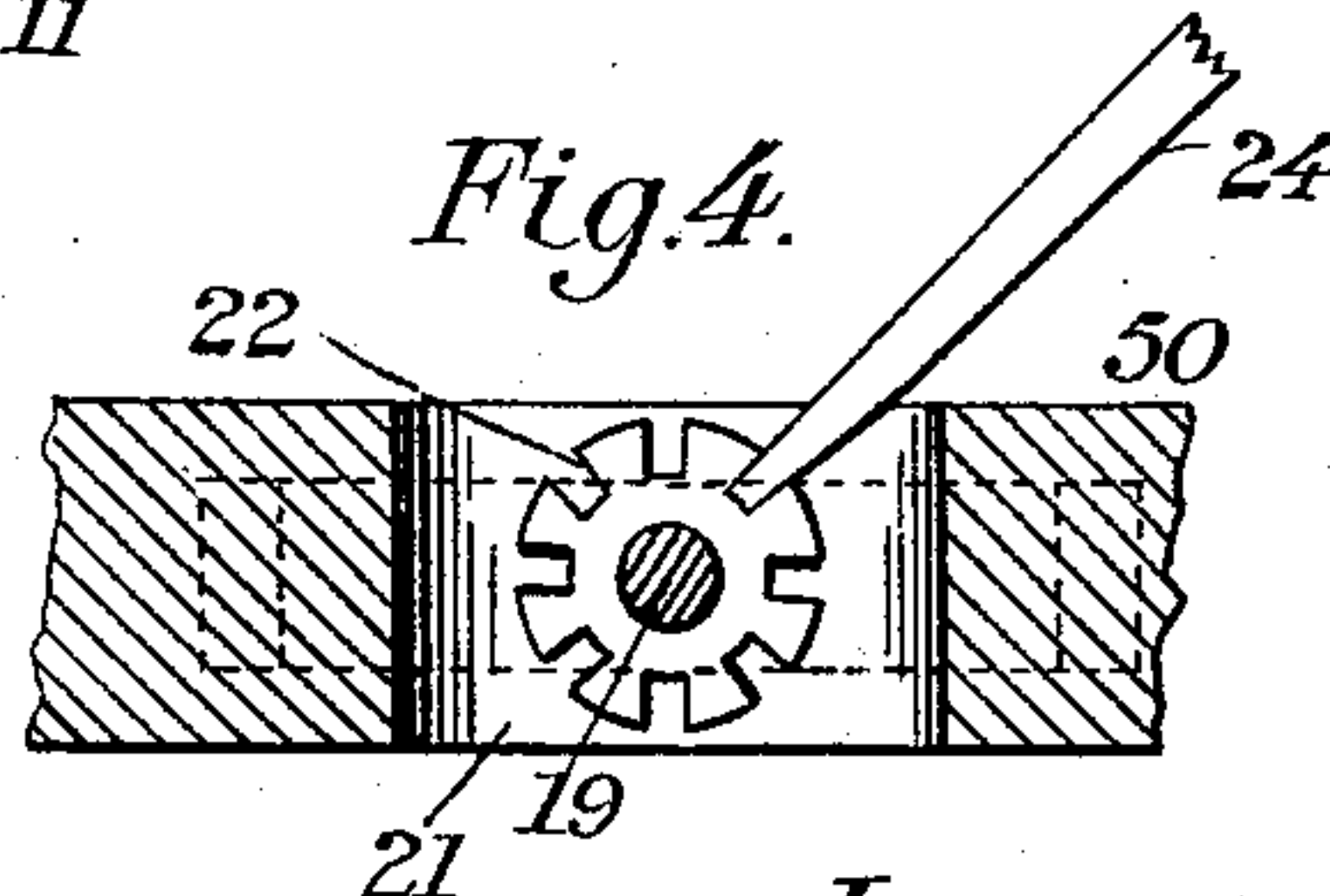


Fig.3.



Witnesses:
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Fig.4.



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UNITED STATES PATENT OFFICE.

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CHASE FOR PRINTING-PRESSES.

SPECIFICATION forming part of Letters Patent No. 543,562, dated July 30, 1895.

Application filed May 14, 1895. Serial No. 549,240. (No model.)

To all whom it may concern:

Be it known that I, JOSEPH J. RAFTER, a citizen of the United States, residing at Hartford, in the county of Hartford and State of Connecticut, have invented certain new and useful Improvements in Chases for Printing-Presses, of which the following is a specification.

This invention relates to an improvement in chases for printing-presses; and the object of the invention is to provide a chase that can be quickly, easily, and readily taken apart and put together, and so constructed as to be made larger or smaller to adapt it to be used with different sizes of printing-presses, whereby the necessity of having a number of chases of different sizes is obviated.

A further object of the invention is to provide an improved clamping device for the chase that can be easily and quickly adjusted onto the type to be held therein, and which will remain in its adjusted position until manually readjusted.

In the accompanying drawings, forming part of this specification, Figure 1 is a top view of the improved chase, a part thereof being shown in dotted lines. Fig. 2 is also a top view of a portion of the frame of the chase, shown as having its side constructed in sections. Fig. 3 is a longitudinal sectional view of the clamping device in line *a a*, Fig. 1; and Fig. 4 is a sectional view of a portion of the chase in line *b b*, Fig. 1, together with the clamping or holding nut and means for actuating the same, said figure also showing the clamp in dotted lines.

Similar characters represent like parts in all the figures of the drawings.

This chase, in the preferred form thereof herein shown, consists of a suitable frame of any suitable material, (designated, generally, as 50,) the sides and ends thereof being of any suitable width and thickness to adapt it for the purpose to which it is to be used, and having each of its sides or ends composed of sections 8, united to each other by suitable dovetail joints 9 of any suitable construction; but, as herein shown, each section of the frame has a dovetail mortise 10 at one of its ends and a dovetail tenon 11 at its opposite end, adapted to fit into corresponding tenons

and mortises on similar sections of the frame. These mortises and tenons are preferably disposed on beveled or inclined ends of the sections, in order to constitute a more perfect fit when the sections are used as end portions of the frame and also to form a tighter joint. These tenons 11 and mortises 10 are disposed on the faces of the ends of the sections at equal distances from the sides thereof in order that the sections may be reversible and interchangeable, and thereby adapted to constitute either end sections 15 or a portion of either of the sides, as 12, or ends of the frame, as may be desired.

Disposed in one of the sides and likewise in one of the ends of the frame are suitable clamping devices. It is understood, however, that these clamping devices may be arranged in both sides and both ends of the frame, if desired, this being, however, considered usually unnecessary in a chase. Each of these clamping devices, in the preferred form thereof herein shown, comprises a reciprocatory clamping plate or jaw 16 of any suitable construction normally seated in a recess 17 of any suitable shape in the inner wall of the frame, whereby its outer face will be flush with the inner wall of the chase.

A transverse aperture or slot 18 of any suitable size extends from the outer wall of the chase-frame and communicates with the recess 17. Through this aperture or slot a screw-threaded spindle 19 is adapted to project, the inner end thereof extending through an aperture in the clamping plate or jaw 16, and being headed therein, as at 20, to prevent disconnection from said jaw or plate. Adjacent the clamping plates or jaws the frame is also provided with suitable slots or apertures 21 in the upper walls, which preferably extend from top to bottom thereof, and in each of these apertures a peripherally-toothed clamping or holding nut 22 and a peripherally-toothed check-nut 23 is adapted to work on the screw-threaded spindle 19 to adjust and clamp the clamping plate or jaw 16 in position to clamp the type in the chase. The recesses between the teeth of these nuts are adapted to receive an actuating bar or lever 24 of any suitable construction adapted to actuate the nuts, and thereby tightly clamp the type within the chase.

In practice, a number of sections 8 will be forwarded to a printing-office, and when it is desired to construct a chase having simply four sections, (two ends and two sides,) similar to that shown in Fig. 1, or one of the character shown in Fig. 2, it is only necessary to unite, by means of the dovetail joints, these sections, and thereby form a chase of the desired size. The type having been arranged in the chase, the clamps 16 are adjusted thereon by means of the clamping-nuts 22, and when tightly clamped into position the check-nuts 23 are turned into position to engage the clamping-nuts, and thereby hold the same against movement. When it is desired to remove the type from the chase, each check-nut is turned to disengage its clamping-nut, and both can then be turned by means of the lever or other means to withdraw the clamping plates or jaws from the type and permit the same to be removed.

Having thus described my invention, what I claim is—

1. A chase for a printing-press composed of sections, and provided with a suitable clamping device comprising a clamping-plate adapted to normally rest in a recess in the inner wall of a section; and having its outer face thereof flush with said inner wall; a screw-threaded spindle connected to said plate, and extending transversely through the section; a peripherally-toothed clamping-nut, and a peripherally-toothed check-nut disposed in an aperture in the top wall of the section, and working on said screw-threaded spindle to adjust the clamping-plate, substantially as described.

2. A chase for a printing-press consisting of a frame and a clamping device, said clamping device comprising a clamping-plate adapted to normally rest in a recess in the in-

ner wall of the frame, and having its outer face flush with said inner wall; a screw-threaded spindle connecting said plate, and extending transversely through the frame; and a clamping-nut and a check-nut disposed in an aperture in the frame between the inner and outer walls thereof, and working on said screw-threaded spindle, to adjust the clamping plate, substantially as described.

3. A chase for a printing-press comprising a frame having an aperture extending from the top to the bottom walls thereof; a clamping device consisting of a plate adapted to normally rest in a recess in the inner wall of the frame, and having its outer face flush with said inner wall; a screw-threaded spindle projecting transversely through the frame and secured to said plate; and a peripherally-toothed clamping-nut and a peripherally-toothed check-nut disposed in said aperture, and adapted to work on said spindle, whereby said plate can be adjusted, clamped, and held in position, until manually readjusted, substantially as described.

4. A chase for a printing-press comprising a frame having an aperture extending from the top to the bottom walls thereof intermediate of its outer and inner wall; a clamping-plate adapted to normally rest in a recess in the inner wall of the frame; a screw-threaded spindle projecting through the frame and aperture and secured to said plate; and a clamping-nut and a check-nut disposed in said aperture, and adapted to work on said spindle, whereby said plate can be adjusted, clamped, and held in position until manually readjusted, substantially as described.

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