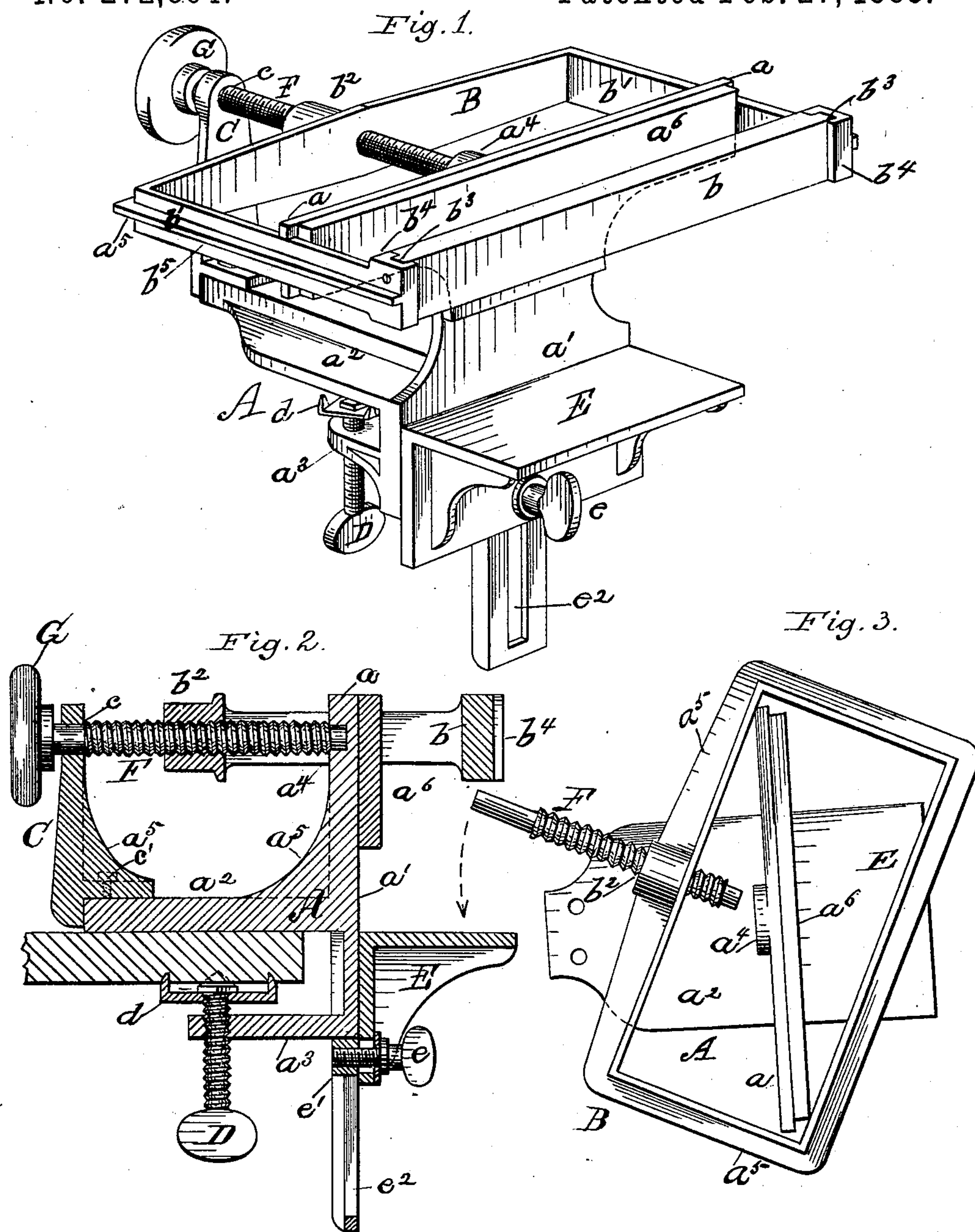


(No Model.)

R. DOYLE.
BOOKBINDER'S CLAMP.

No. 272,864.

Patented Feb. 27, 1883.



Witnesses:
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UNITED STATES PATENT OFFICE.

RICHARD DOYLE, OF GRAND RAPIDS, MICHIGAN.

BOOK-BINDER'S CLAMP.

SPECIFICATION forming part of Letters Patent No. 272,864, dated February 27, 1883.

Application filed August 14, 1882. (No model.)

To all whom it may concern:

Be it known that I, RICHARD DOYLE, a citizen of the United States of America, residing at Grand Rapids, in the county of Kent and State of Michigan, have invented certain new and useful Improvements in Book-Binders' Finishing Stands or Clamps; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters or figures of reference marked thereon, which form a part of this specification.

My invention relates to a device designed for the use of book-binders; and it consists in certain features hereinafter described and specifically pointed out in the claims.

Figure 1 is a perspective, Fig. 2 a vertical central section, and Fig. 3 a detail, of a finishing stand or clamp, constructed in accordance with my invention.

Like letters refer to like parts in all the figures.

A represents a single casting, which comprises in itself several important elements of the stand—viz., the fixed jaw *a* of the clamp proper, the slotted face-plate *a'*, the supporting-base *a²*, the bracket *a³*, and the bearing *a⁴* for the screw *F* of the clamp. Suitable ribs and brackets, *a⁵*, are formed on the casting to give additional strength. B represents a second casting, which comprises means for holding the movable jaw *b*, the guides *b'* *b'* for the same, and the bearing *b²* for the screw of the clamp. If desired, the movable jaw *b* may be cast integral with the guides, as shown, for instance, in Fig. 3. C represents a third casting, which constitutes the bearing of the screw of the clamp. These three castings, with a few simple accessories, constitute a stand which is strong, serviceable, readily applied to any bench or table, and adjustable to adapt it to hold books varying in size from the largest ledger to the smallest pamphlet. A thumb-screw, *D*, is provided in the bracket *a³*, and, with the pointed washer *d* thereon, renders the stand capable of being removably secured to a table or bench. The table *E* is rendered adjustable in a vertical direction by means of a thumb-screw, *e*, passing through a slot in the back plate of the table and through the

nut *e'*, which is provided with a rib which fits the slot *e²* in the face-plate *a'* of the casting A. Cleats (which bear against the edges of the slotted part of face-plate *a'*) may be provided on the back of the back plate, which serve to keep the table level. The table *E* may be of wood or iron, as desired. The movable jaw *b* is, in this instance, a separate piece tenoned at each end to fit mortises *b³*, formed in the inwardly projecting brackets *b⁴* on the guides *b'* *b'*. If desired, this jaw *b* may be cast integral with the guides and faced with wood, as is the fixed jaw *a*, the facing *a⁶* being secured by screws passing from the rear through the casting and into the wood. The fixed jaw, as illustrated in Fig. 1, is grooved at its ends for the reception of the guides *b'* *b'*, and, in consequence of the brackets *b⁴*, said guides cannot be directly introduced into the grooves, and therefore the parts are put together in the following manner: The casting B is placed diagonally over the fixed jaw *a*, (see Fig. 3,) so that said jaw extends from the back end of one of the guides to the front end of the other, and when in this position, the casting B is lowered and one of the guides is inserted in the groove at one end of the jaw, and then the other guide is inserted and the casting is swung around until the bearing *b²* is in line with the bearing *a⁴*. The screw *F* is now inserted in its bearing *a⁴*, the casting C is put upon the screw and secured to the base *a²* by bolts *c'*. A hand-wheel, *G*, is secured to the screw *F*.

The operation of the stand is apparent from its construction. The table *E* is secured at such a point that a book, resting on its front edge, will project above the jaws sufficiently to give easy access to its back, and a few turns of the hand-wheel firmly clamps the book in that position, and the workman has the use of both hands in the operations of lettering, gilding, or otherwise finishing the back of the book.

I am aware that book-binding machines have heretofore been constructed with binding-clamps which were adapted to clamp a book in substantially the manner described, and do not broadly claim such devices as of my invention.

Having described my invention and its operation, what I claim as new, and desire to secure by Letters Patent, is—

1. In a book-binder's clamp, the casting A, comprising the fixed jaw, the slotted face-plate, the base, and the attaching-bracket, substantially as shown and described.

5 2. The combination of the casting B, comprising the bearing b^2 and brackets b^4 , vertically grooved or mortised at b^3 , the movable jaw b , and the fixed jaw a , grooved at its ends, substantially as shown and described.

10 3. The combination of the integral casting A, comprising the fixed jaw a , grooved at its ends, the bearing a^4 , the face-plate a' , slotted

at e^2 , the base a^2 , and the bracket a^3 , provided with the screw D and washer d , with the integral casting B, comprising the guides b' b' , 15 provided with the brackets b^4 b^4 and bearing b^2 , and with the table E and screw F, substantially as shown and described.

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

RICHARD DOYLE.

Witnesses:

LIPPMAN ROSENFELD,
FREDERICK W. SIMONDS.