

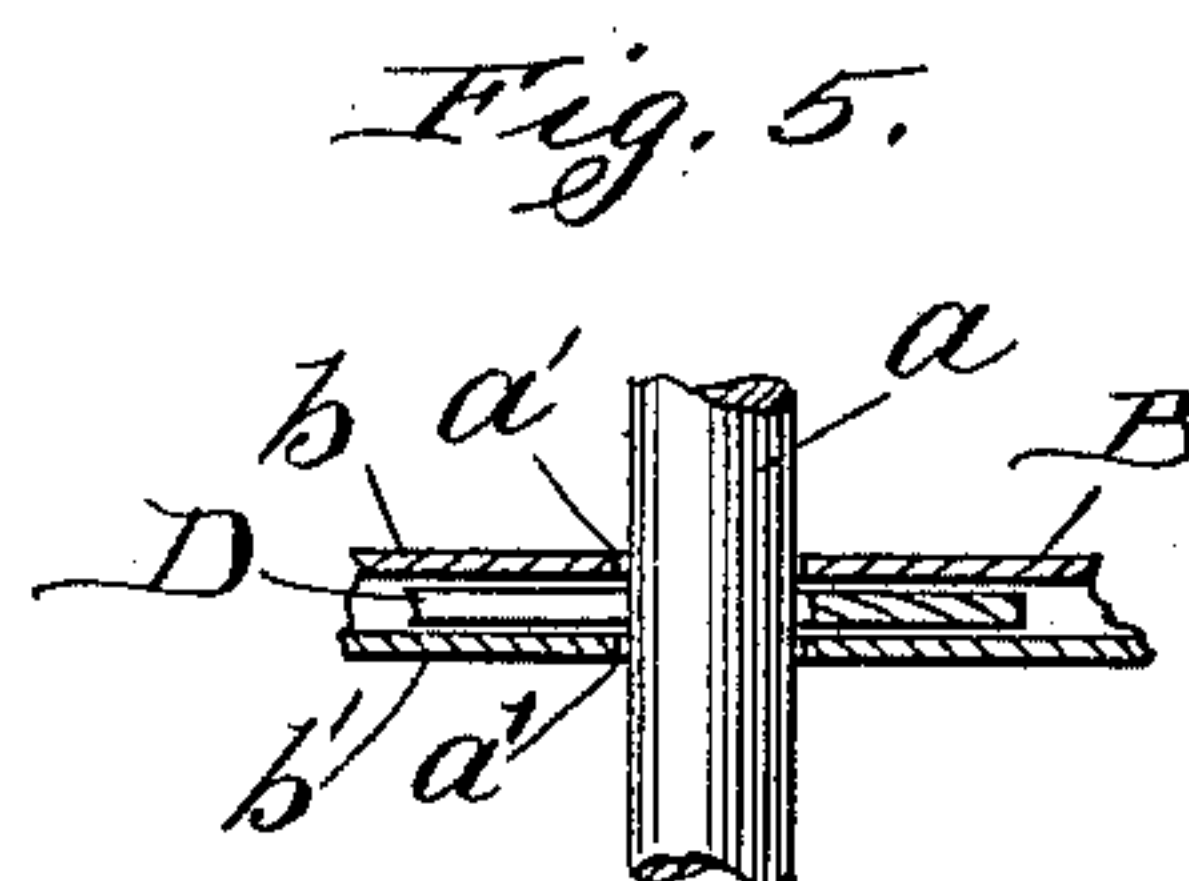
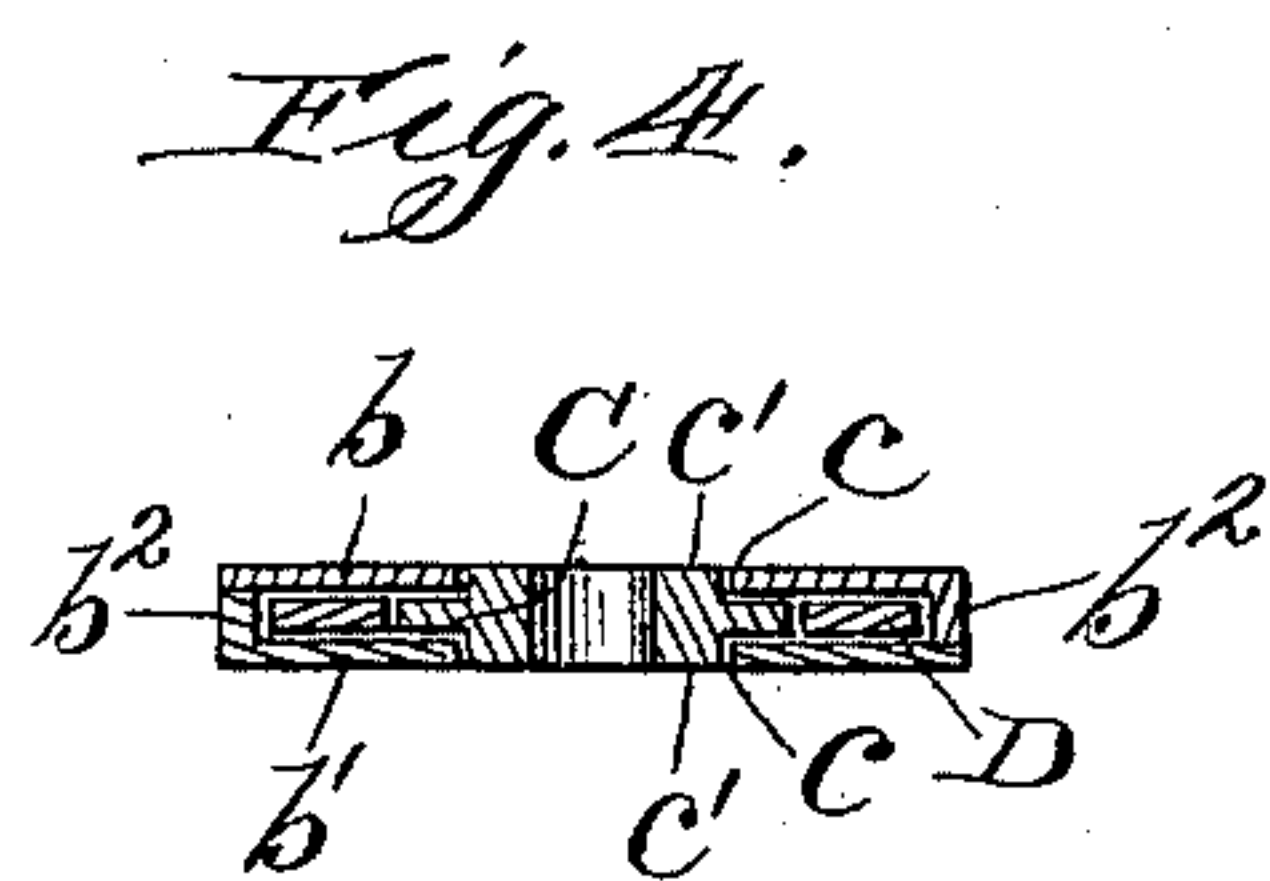
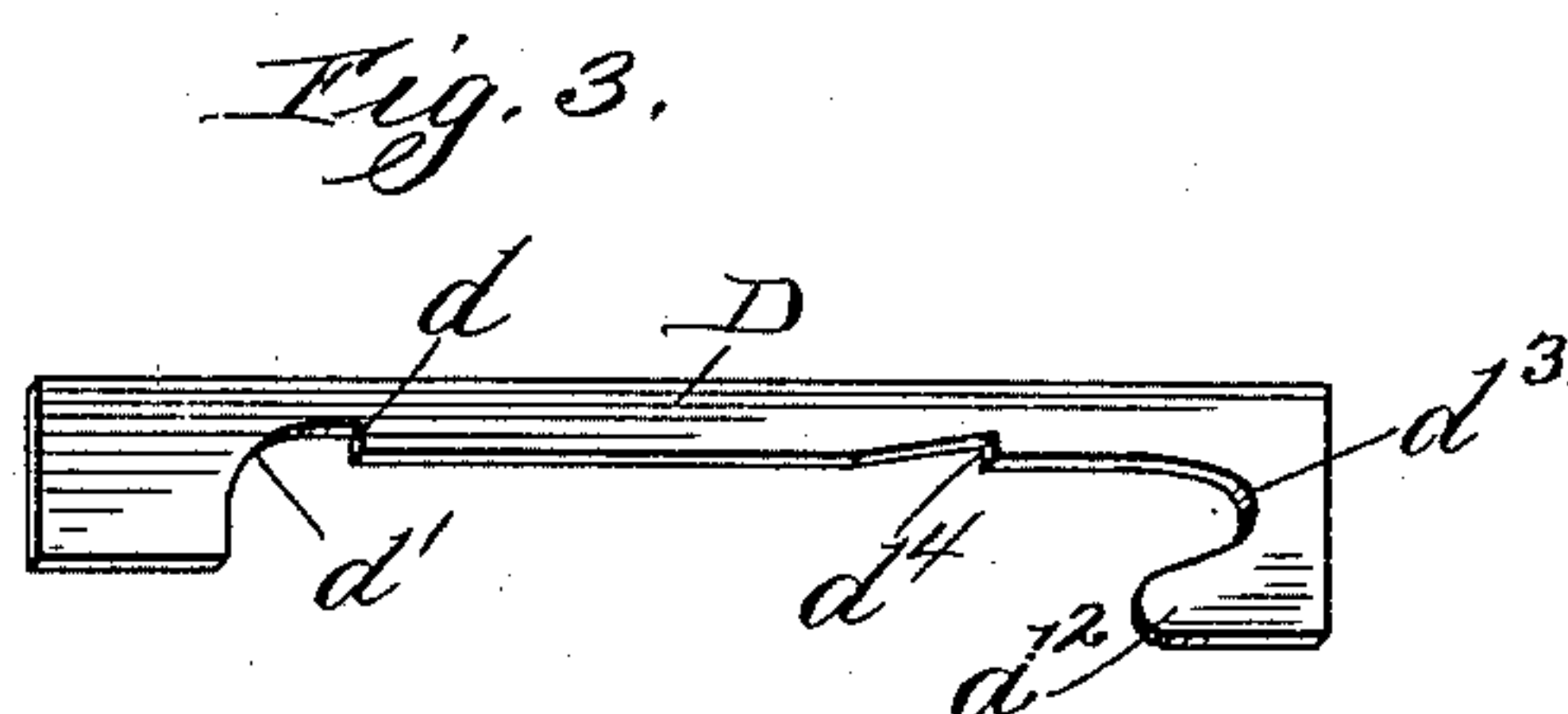
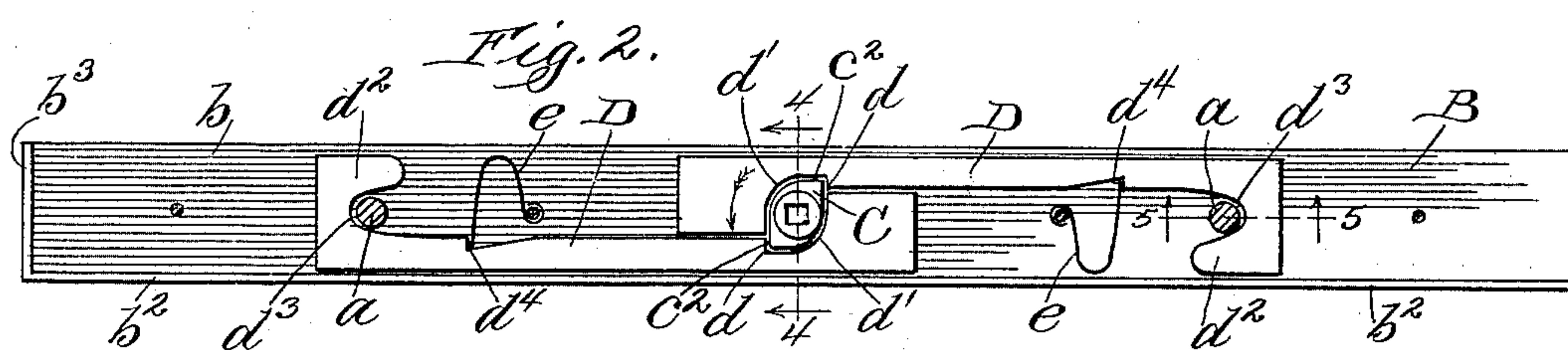
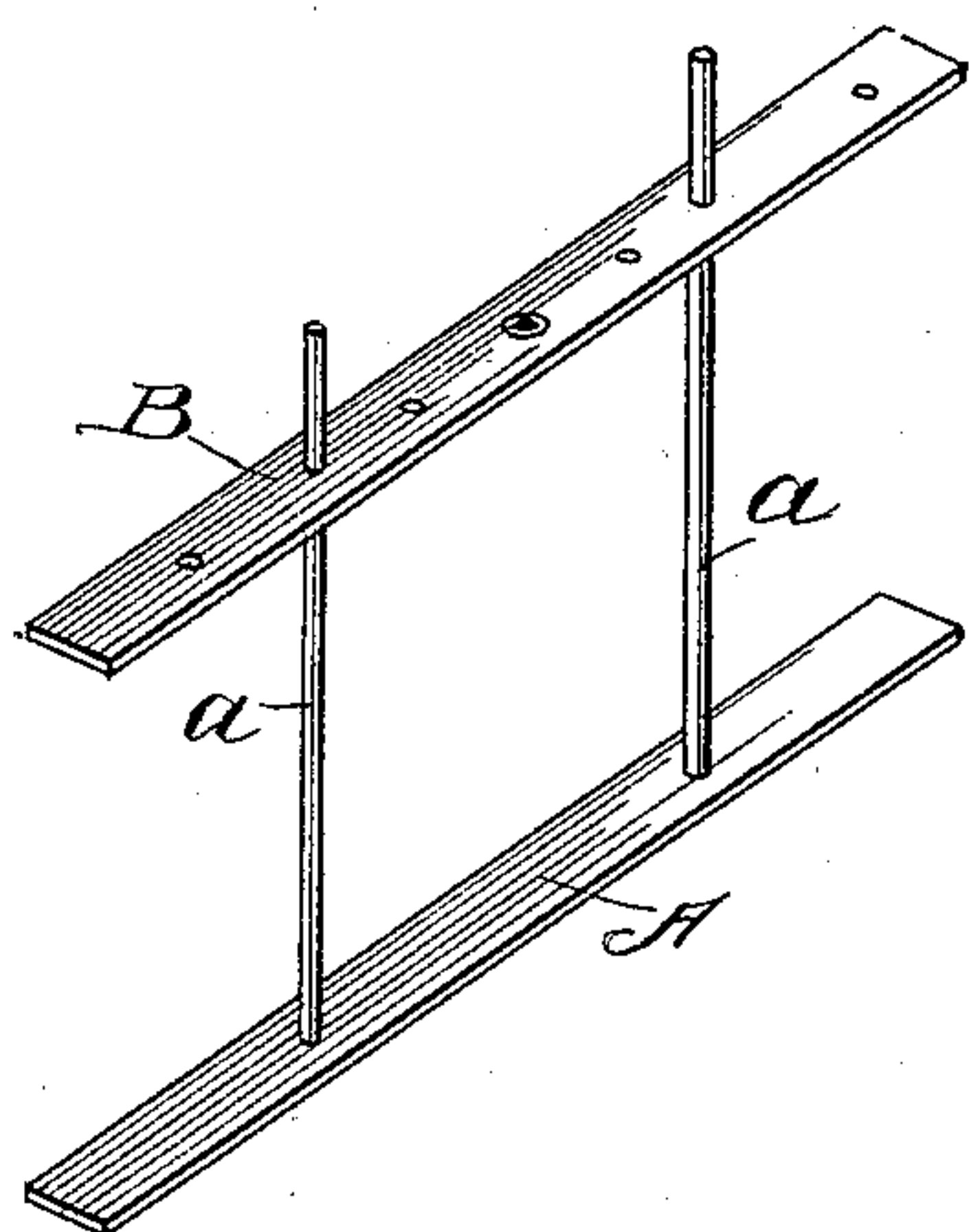
No. 613,070.

Patented Oct. 25, 1898.

J. S. MURRAY.
TEMPORARY BINDER.

(Application filed Dec. 27, 1897.)

(No Model.)



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UNITED STATES PATENT OFFICE.

JOHN S. MURRAY, OF CHICAGO, ILLINOIS.

TEMPORARY BINDER.

SPECIFICATION forming part of Letters Patent No. 613,070, dated October 25, 1898.

Application filed December 27, 1897. Serial No. 663,597. (No model.)

To all whom it may concern:

Be it known that I, JOHN S. MURRAY, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Temporary Binders, of which the following is a specification.

This invention relates to improvements in that class of files or binders known as "temporary" binders; and it consists in certain peculiarities of the construction, novel arrangement, and operation of the various parts thereof, as will be hereinafter more fully set forth and specifically claimed.

The object of my invention is to provide a temporary binder which shall be simple and inexpensive in construction for binding together statements, bills, letters, orders, and other lists, sheets, or documents, which will thereby be safely and securely retained in position, but may be easily removed when desired. This I accomplish by the use of two plates, one of which is provided with filing pins or posts and the other with openings to receive said pins, and a locking mechanism to engage and hold the last-named plate at any desired position on the posts.

In order to enable others skilled in the art to which my invention pertains to make and use the same, I will now proceed to describe it, referring to the accompanying drawings, in which—

Figure 1 is a perspective view of my binder, showing the upper or removable plate or piece secured on the filing or impaling pins. Fig. 2 is an enlarged plan view of the upper or removable piece with a part thereof removed and illustrating the locking mechanism, which it carries. Fig. 3 is a detached perspective view of one of the locking-bolts. Fig. 4 is a cross-sectional view taken on line 4 4 of Fig. 2, illustrating the construction of the casing composing the upper or removable piece of the binder; and Fig. 5 is a longitudinal sectional view taken on line 5 5 of Fig. 2, showing a portion of one of the locking-bolts and a part of the casing of the upper removable piece and a portion of one of the filing-pins.

Similar letters refer to like parts throughout the different views of the drawings.

A represents the lower plate or piece of my

binder, which, as well as the upper or removable piece B, may be secured in any suitable manner to a cover or board (not shown) of the ordinary or any preferred kind. The plate or piece A has rigidly secured thereto a pair of impaling or filing pins a , which stand in an upright position and pass through suitable openings a' in the plates b and b' , comprising the casing of the upper or removable piece. These plates are each provided on one of their edges with a flange b^2 and at one of their ends with a flange b^3 , all of which flanges extend at substantially a right angle from the body of said plates, so that when the plates are secured together a casing for the locking mechanism will be afforded. In other words, the plates b and b' are counterparts of one another, but have their flanges alternately arranged or located. The middle portion of each of the plates b and b' is provided with a circular opening c to receive and form bearings for the cylindrical bosses c' on each side of the operating-cam C, which actuates the locking-bolts, as will be presently explained.

Extending through the cylindrical portions c' is a rectangular opening for a similar-shaped key employed for turning the cam, which, as shown in Fig. 2 of the drawings, has its opposite sides or ends formed with straight portions c^2 to engage the shoulders d of the locking-bolts D, which are formed near their inner ends and in their adjacent edges with circular recesses d' to receive the circular portions of the cam. The outer portions of the locking-bolts D are provided with an inwardly-extending fork d^2 , which, in conjunction with the body of the bolts, form recesses d^3 , which partly encircle the filing or impaling pins a , as is clearly shown in Fig. 2 of the drawings. Secured at one of their ends and at each side of the operating-cam are springs e , whose other ends engage the locking-bolts D and usually by means of recesses d^4 formed therein for this purpose. These springs are employed to normally force the locking-bolts outwardly, so that they will not interfere with the insertion of the filing-pins a through the openings in the piece B after the same has been removed.

By placing and securing the plates b and

b', comprising the piece B, together, it is apparent that a closed casing will be provided, in the cavity of which the locking mechanism consisting of the locking-bolts D, the springs *e*, and cam E will be contained and that the bolts D will be free to move longitudinally only. When it is desired to secure the piece B on the filing or impaling pins *a*, a key may be inserted into the rectangular opening of the bosses on the cam, when by turning the latter in the direction indicated by the arrow in Fig. 2 of the drawings it is apparent that the bolts will be drawn inwardly, thus causing them to impinge the outer surfaces of the filing or impaling pins, in which position they will be held through the frictional contact with the ends of the cam, when by turning the same in the opposite direction the locking-bolts may be disengaged from the pin *a* and held in such a position by means of the springs *e*, employed for this purpose.

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

1. The combination with a piece provided with filing or impaling pins, of a removable piece having openings for the passage of said impaling-pins, a pair of locking-bolts located within the last-named piece, each of said bolts extending beyond and around the outer surface of the impaling-pins, and having near their inner portions curved recesses, a cam located between the curved recesses of the

bolts and within the removable piece, substantially as described.

2. The combination with a piece provided with filing or impaling pins, of a removable piece comprising a casing having openings for the passage of said pins, spring-actuated locking-bolts located within said casing, each of said bolts having at its outer end an inwardly-extending fork, and near its inner end a circular recess provided with a shoulder, a cam pivotally secured between said recesses and within the casing of the removable piece, and having straight portions to engage the shoulders of the recesses, substantially as described.

3. The combination with the piece A, having the filing or impaling pins *a*, of the removable piece B, comprising the plates *b*, and *b'*, each having the flanges *b*², and *b*³, and central openings *c*, the locking-bolts D, having the recesses *d*³, at their outer ends, and the curved recesses *d'*, provided with the shoulders *d*, in their inner portions, the springs *e*, engaging said bolts at one of their ends and the casing at their other ends, the cam C, located within the piece B, and between the inner recesses of the locking-bolts and provided with the cylindrical bosses *c'*, substantially as described.

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