

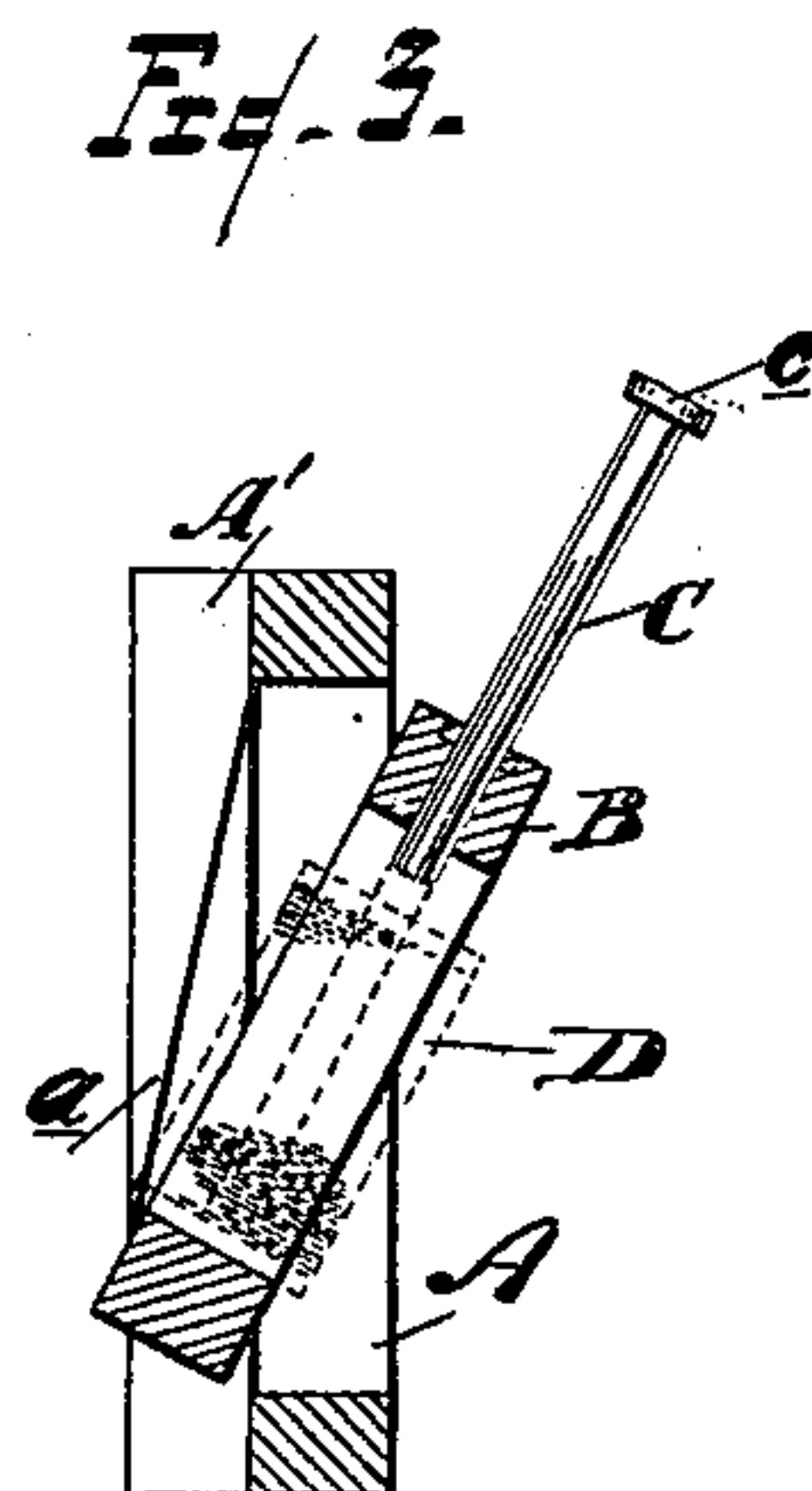
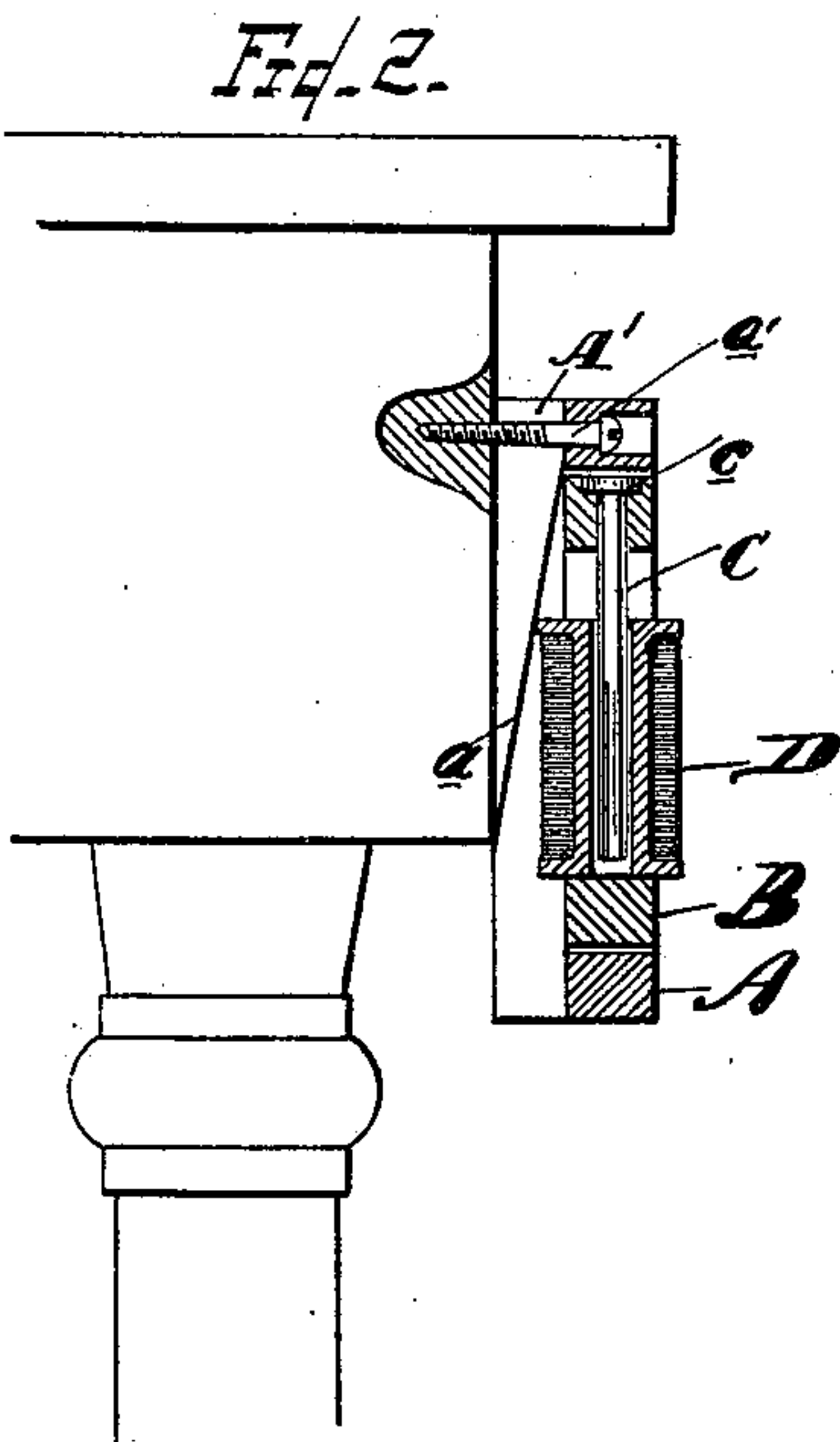
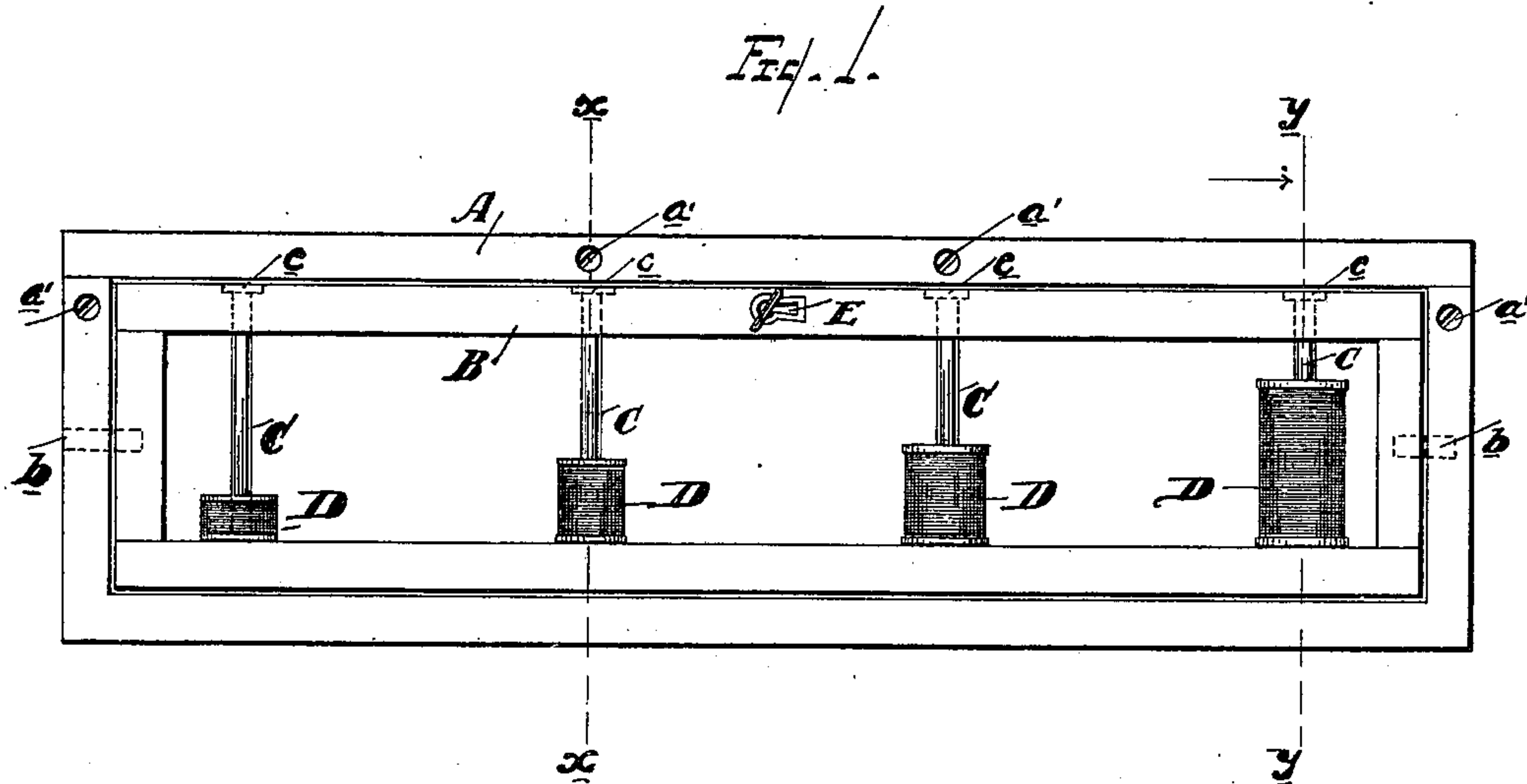
No. 665,396.

Patented Jan. 8, 1901.

E. J. BOERSIG.
SPOOL STAND.

(Application filed Jan. 31, 1900.)

(No Model.)



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UNITED STATES PATENT OFFICE.

EDWARD J. BOERSIG, OF DETROIT, MICHIGAN.

SPOOL-STAND.

SPECIFICATION forming part of Letters Patent No. 665,396, dated January 8, 1901.

Application filed January 31, 1900. Serial No. 3,419. (No model.)

To all whom it may concern:

Be it known that I, EDWARD J. BOERSIG, a citizen of the United States, residing at Detroit, county of Wayne, State of Michigan, have invented a certain new and useful Improvement in Spool-Locking Devices; and I 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 pertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification.

My invention relates to spool-locking devices and is shown in the accompanying drawings, in which—

Figure 1 is a front elevation; Fig. 2, a sectional view from line *x x*, and Fig. 3 a section on line *y y*.

In the drawings, A represents a rectangular frame preferably made of wood, and B represents a smaller rectangular frame pivoted within the frame A on pins *b b*. (Shown in dotted lines on Fig. 1.)

A' represents a cleat screwed or glued to the back of each end of frame A. This cleat is of sufficient width to extend inward behind the frame B and act as a stop to the latter frame. I prefer to cut this cleat with an inclined edge *a*, so that the top or wider part may serve as a stop for the top of frame B when it is closed and the bottom or narrow part may allow clearance for the lower edge of the frame to swing in to its limit and serve as a stop to hold the frame in its open position, as shown in Fig. 3.

C C are steel pins dropped loosely through holes bored through the upper side of the frame B and are provided with heads *c c*, which hold the pins in place.

D D represent spools of thread, the spools being shown of different sizes to illustrate the use of different kinds of thread.

E represents the lock by which the frame B is locked in the frame A in its closed position. When in this position, the spools are locked in the frame, because the only way they can be removed is to lift the pins until the spools can be taken off at the lower end, and the pins cannot be lifted while the frame B is locked in the frame A, as the heads of the pins come under the upper side of that frame.

The pins C C are of a length to reach only part way through the spools and are cut off some distance above the bottom of the frame. The object of this construction is to prevent the loose end of the thread hanging from the spool from winding around the end of the pin below the spool.

The objects of my invention are to provide convenient supports for thread, more particularly where used in manufacturing establishments, and also to provide means for locking up the thread so that employees cannot carry the spools of thread away. In the use of my device in factories the frame A is fastened to any suitable support, such as the table on which the employee using the thread is working, by means of the screws *a' a'*. The manner in which the foreman having charge of the thread supplies the employee with it is by unlocking the frame B and swinging it out, as shown in Fig. 3, until the heads of the pins C C clear the frame A, when each pin is lifted until the empty spool can be taken off the lower end and a full spool put in its place. The frame is then swung into place and locked again.

What I claim is—

1. In a spool-support, the combination of the main frame, the auxiliary frame hinged and fitted to the inside of the main frame, the pins loosely mounted in the auxiliary frame, and means for supporting the auxiliary frame outside of the main frame to allow the lifting of the pins and means for locking the frames together over the pins when closed, substantially as described.

2. In a spool-support, the combination of the main frame, the auxiliary frame pivoted in the main frame, the pins, a stop arranged to support the auxiliary frame outside of the main frame to allow for lifting the pins and means for locking the frames together over the pins when closed, substantially as described.

In testimony whereof I sign this specification in the presence of two witnesses.

EDWARD J. BOERSIG.

Witnesses:

S. E. THOMAS,
FRANK DUWE.