

No. 698,621.

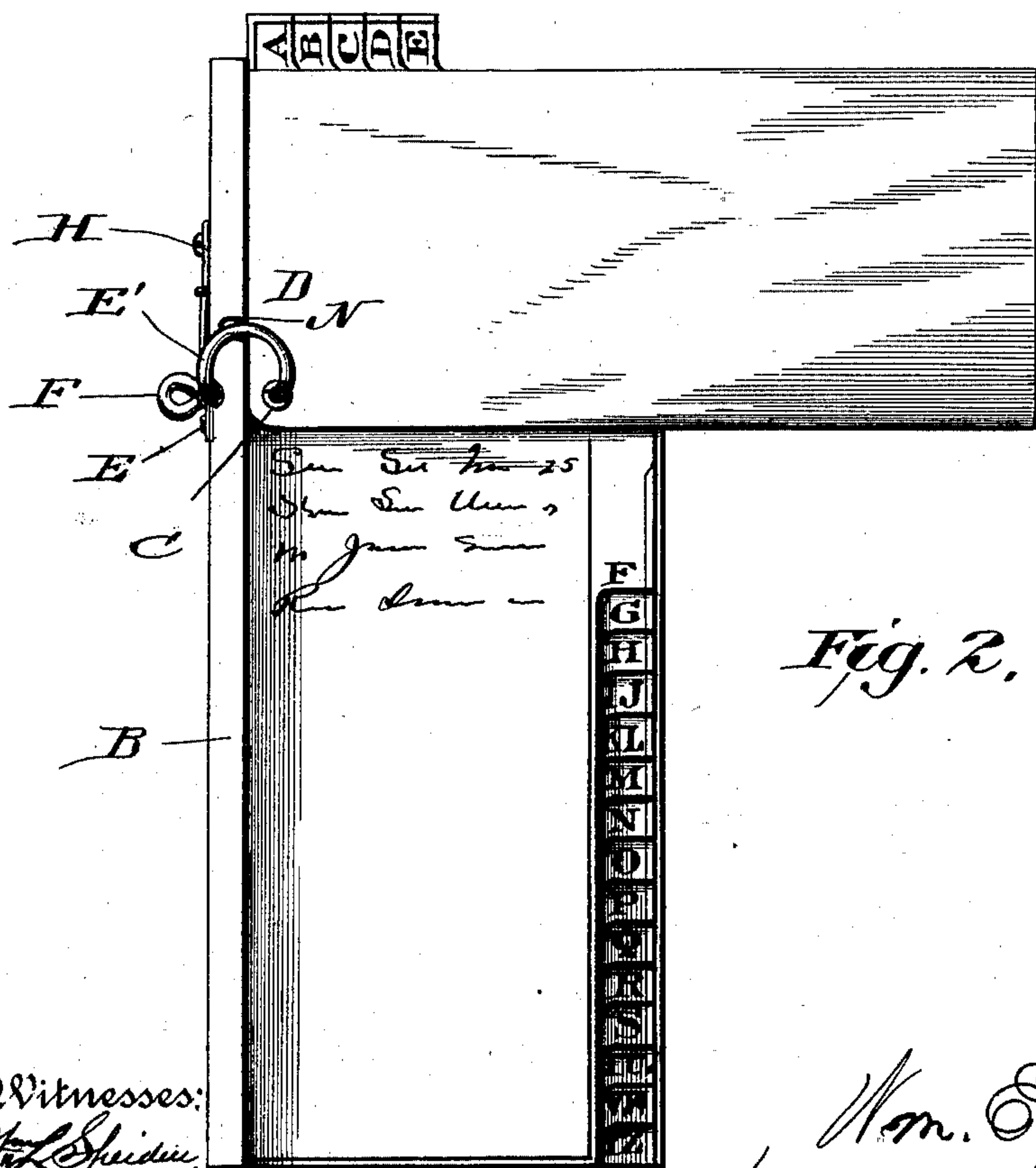
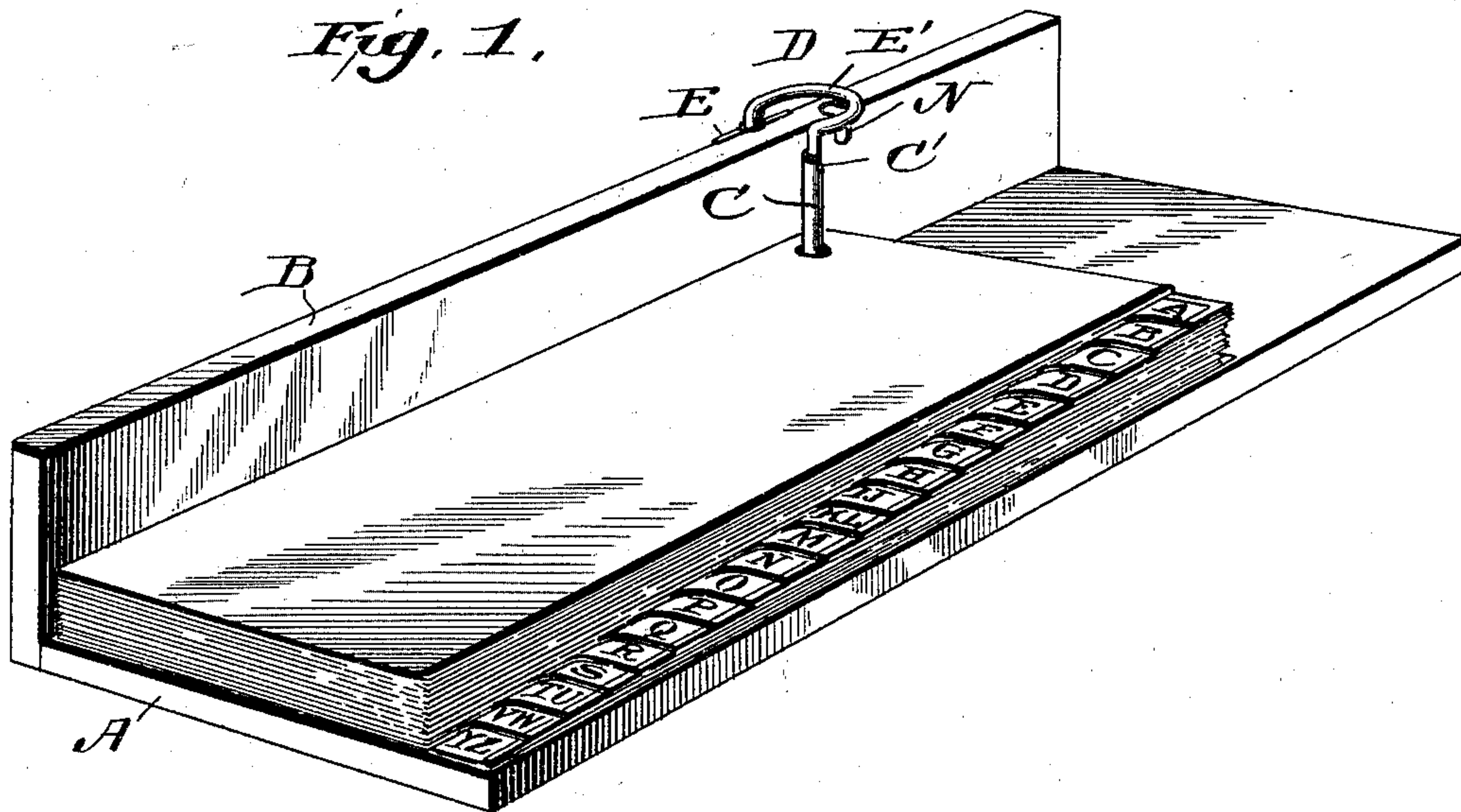
Patented Apr. 29, 1902.

W. E. BALL.
INDEX FILE.

(Application filed Dec. 31, 1900.)

(No Model.)

2 Sheets—Sheet 1.



Witnesses:
Wm. E. Ball
a L. Hough

Inventor:
Wm. E. Ball
by Franklin H. Hough
Attorney

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INDEX FILE.

(Application filed Dec. 31, 1900.)

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2 Sheets—Sheet 2.

Fig. 3.

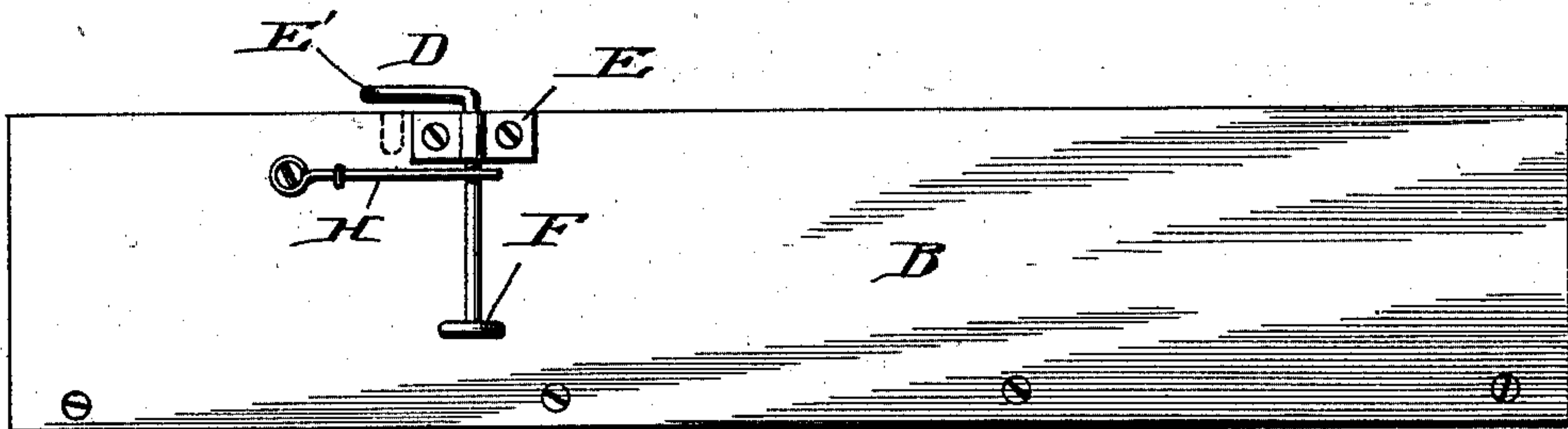


Fig. 4.

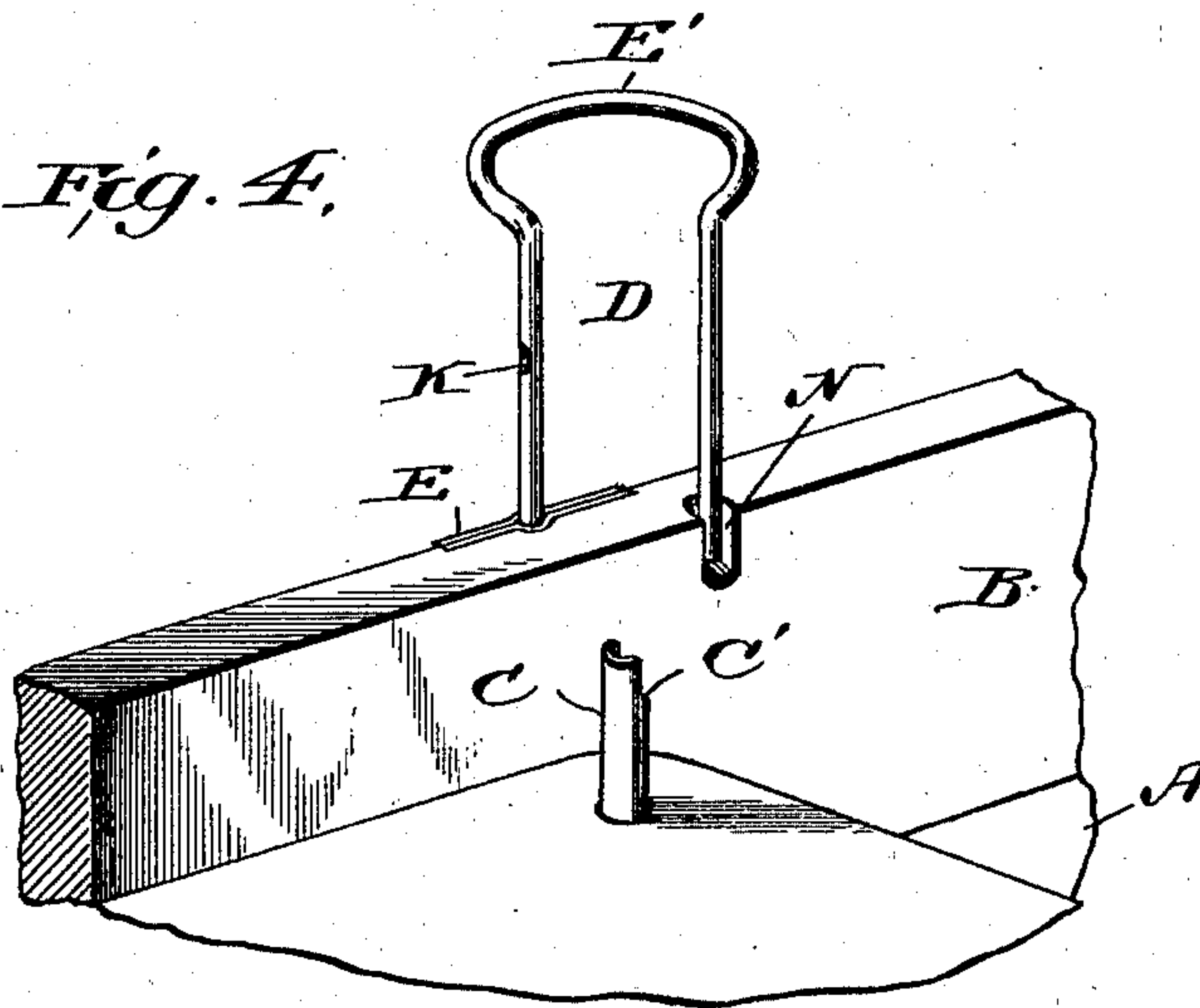
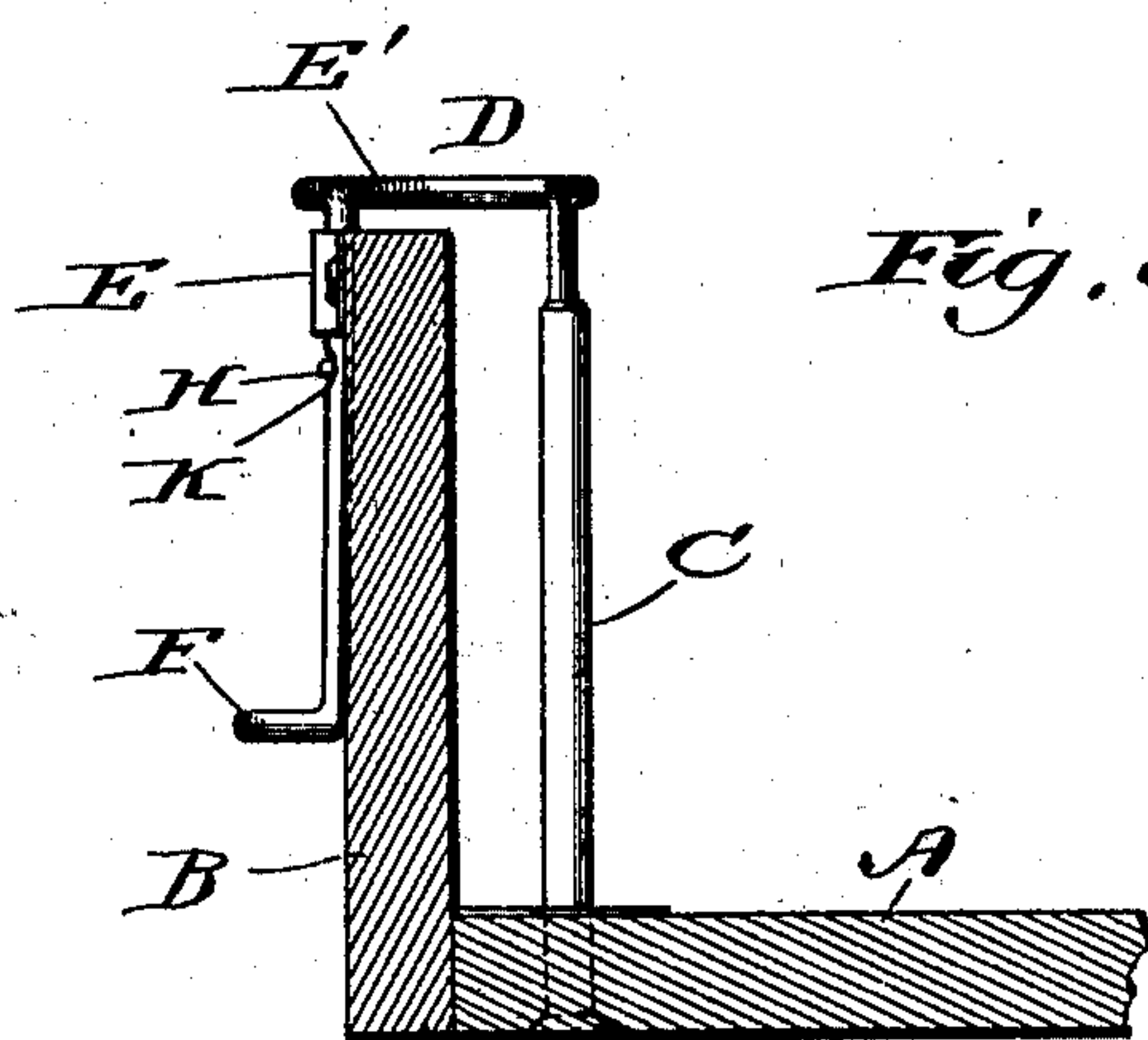


Fig. 5.



Witnesses:
W. L. Spence
A. R. Hough

Inventor:
Wm. E. Ball,
by Franklin D. Hough
Attorney

UNITED STATES PATENT OFFICE.

WILLIAM E. BALL, OF ZANESVILLE, OHIO.

INDEX-FILE.

SPECIFICATION forming part of Letters Patent No. 698,621, dated April 29, 1902.

Application filed December 31, 1900. Serial No. 41,715. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM E. BALL, a citizen of the United States, residing at Zanesville, in the county of Muskingum and State of Ohio, have invented certain new and useful Improvements in Index-Files; and I do 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 ap-
10 pertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

This invention relates to new and useful
15 improvements in account-files, and especially to an index for short accounts in which the entire sheet may be utilized and disclosed by simply swinging the sheet out at right angles to its normal position, suitable means being
20 provided whereby the leaves and index-sheets may be readily removed and replaced.

More specifically, the present invention consists in the provision of an angular rack one wall of which is provided with a tubing to re-
25 ceive the card-retaining wire, which wire is so mounted as to be capable of being operated to allow the cards to be removed, suitable mechanism being had to hold the wire in a locked relation within the tubing and
30 means to hold the wire from interference with the sheets or index-cards when the latter are being placed upon or removed from the file.

To these ends and to such others as the invention may pertain the same consists, fur-
35 ther, in the novel construction, combination, and adaptation of parts, as will be hereinafter more fully described, and then specifically defined in the appended claims.

The invention is clearly illustrated in the
40 accompanying drawings, which, with the letters of reference marked thereon, form a part of this application, and in which drawings—

Figure 1 is a perspective view of my improved index-file. Fig. 2 is a view of the file
45 with a portion of the sheets and index-cards swung at right angles to their normal position to disclose a certain account. Fig. 3 is a side elevation of one of the walls of the rack. Fig. 4 is a view showing the retaining-
50 wire swung into a recess in the wall of the rack in position to allow an index card or

sheet to be placed upon or removed from the file. Fig. 5 is a detail view showing the notched portion of the wire and the spring which locks same in a closed relation in the
55 card-holding tube.

Reference now being had to the details of the drawings by letter, A designates the bottom of the file-rack, which may be made of any suitable material, and said bottom portion has a right-angled side B. To the bot-
60 tom is secured in any suitable manner a tube C, which is open at its upper or outer end and is located parallel with the side wall of the rack and adjacent thereto. The upper end of
65 said tube is cut away, as at C', to receive the free end of the index and sheet retaining wire D, the wall of the tube which extends beyond or above the cut-away portion serving
70 as a stop to the rearward swing of said wire. Said wire D is held to the outer face of the said wall of the rack by means of a strap E and has a partial rotary movement in a recess in
75 said wall. This wire is bent to form a semi-circular portion E', which is at right angles to the straight end portions of the wire, said
bent portion serving as a means to limit the downward throw of the wire by its coming in contact with the upper edge of said side wall. The lower end of said wire on its outer arm
80 is bent at right angles, as at F, and fastened to the outer face of said side wall is a spring H, the free end of which is designed to normally rest in a recess or notch K in the wire
85 to hold the latter in a locked relation within the tubing. This spring also serves another purpose—namely, as a stop to limit the upward throw of the wire by being placed across the path of the bent end F and against which
90 said bent end is designed to strike when the wire is lifted high enough. On the inner wall of the side wall is a recess N, in which the free end of the tube-engaging portion of the wire is designed to engage when said wire is
95 raised out of the tube and swung around so as to be out of the path of the edges of the index cards and sheets as they are being placed over or removed from the tubing, the cards and sheets having been first perforated, as
100 will be understood.

From the foregoing it will be observed that when sheets and index-cards are mounted as

shown and described when a person desires to have access to any particular sheet the upper sheets and cards may be swung at right angles to their normal or closed positions and
5 the contents of the sheet may be easily seen. To remove the sheets, the end of the retaining-wire is swung so as to enter the recess in the rack, in which position it will be out of the way of the leaves and cards of the index.

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

15 1. An index-file, consisting in combination with the angled rack of the tube, the wire journaled to the rack and having a notch, one end of said wire bent at right angles, a spring secured at one end to the wall of the rack, its free end normally resting in the notch in the wire to hold same with one of its ends in said

tube, and also serving as a stop to hold the 20 wire to the rack, as set forth.

2. In combination with the angled rack, the tube, the index-retaining wire bent as shown and journaled to the wall of the rack, a spring 25 secured to the outer wall of the rack and its free end bearing yieldingly against said wire, and the inner wall of the rack being recessed to receive one end of the wire as the latter is swung out of the path of the index leaves and 30 sheets as they are placed upon or removed from the file, as set forth.

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

WILLIAM E. BALL.

Witnesses:

A. A. GEORGE,
J. H. WHARTENBY.