

(No Model.)

A. M. LEVERING.
WINDOW FASTENER.

No. 532,675.

Patented Jan. 15, 1895.

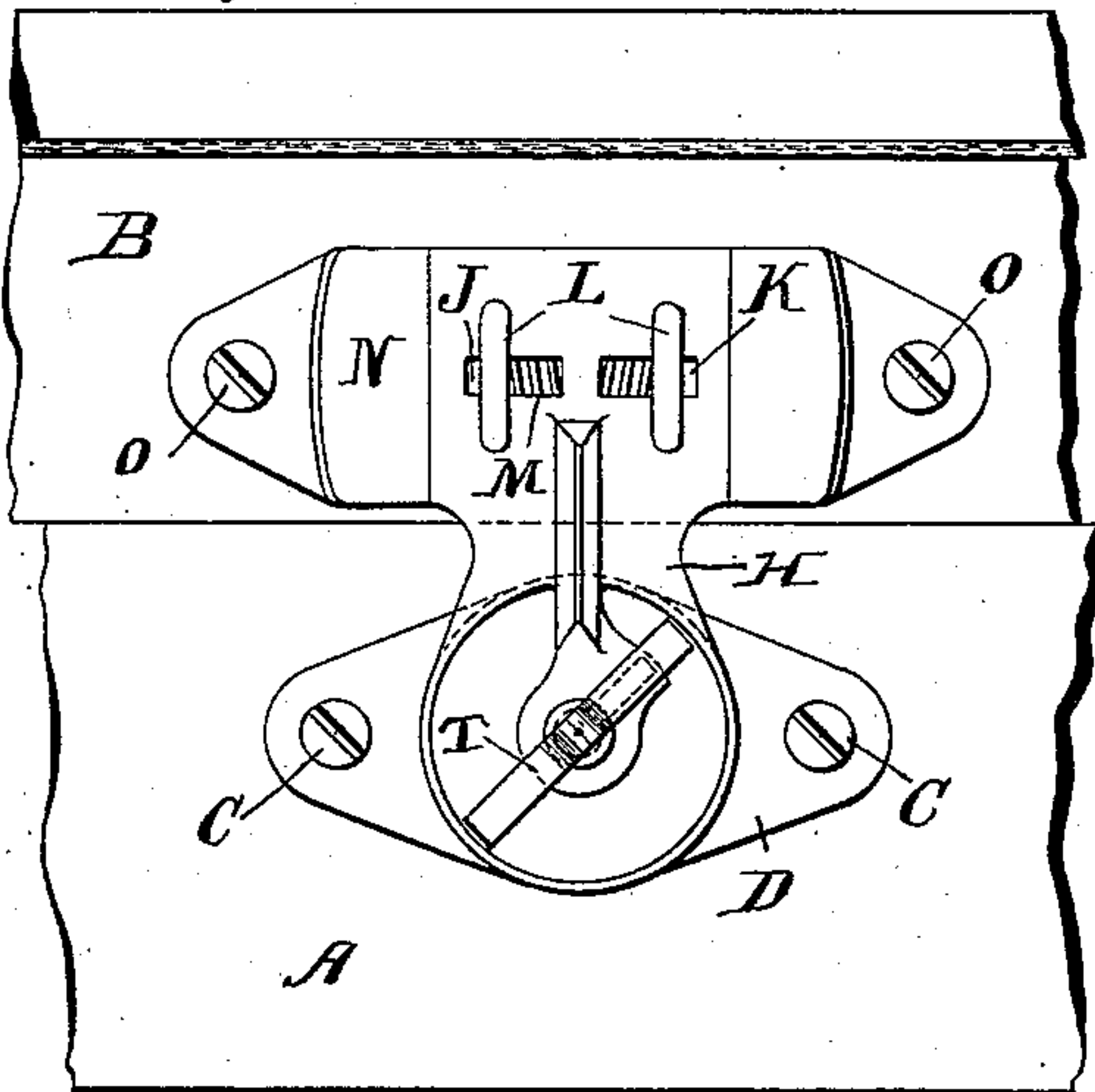


FIG. 1.

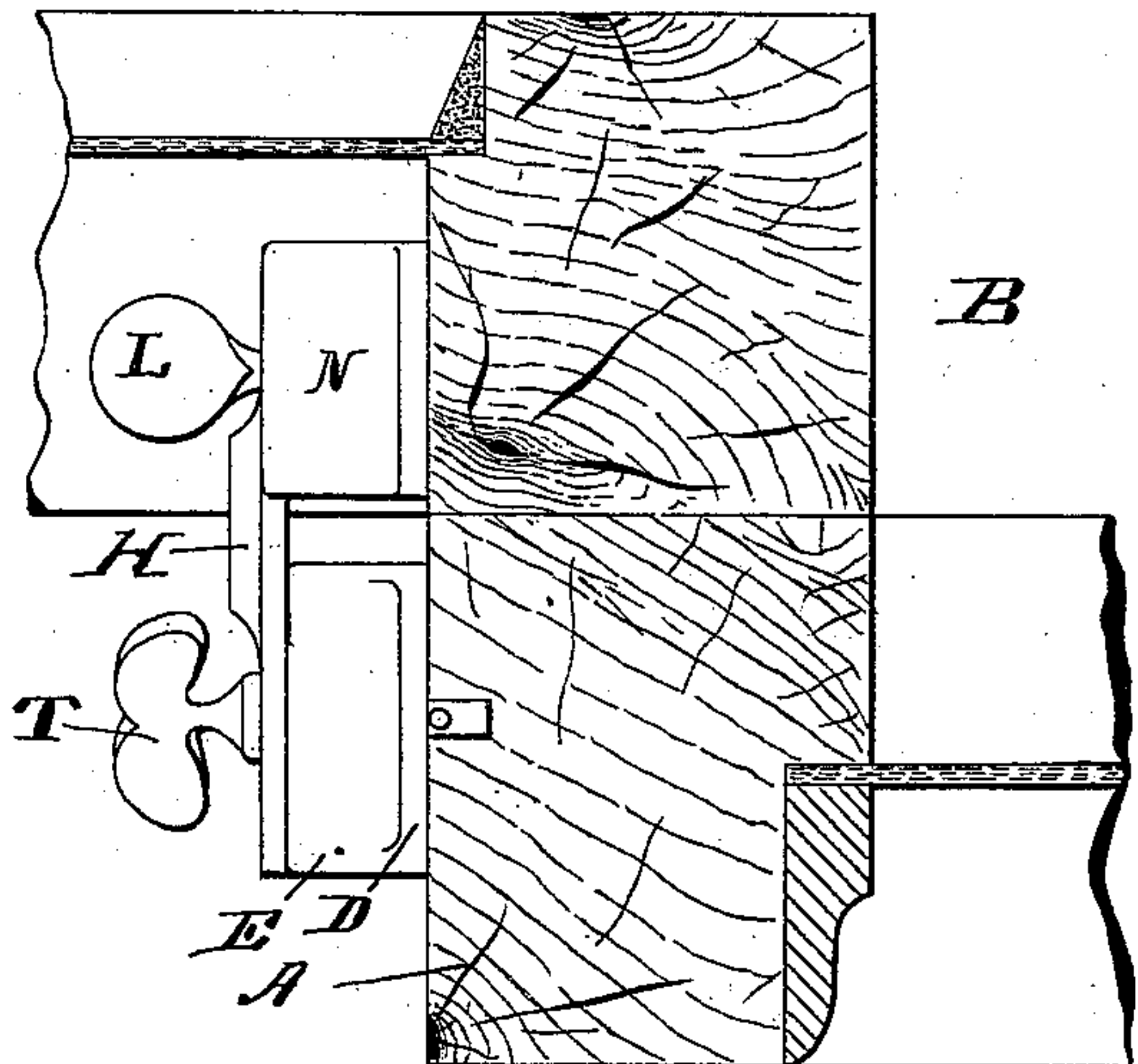


FIG. 2.

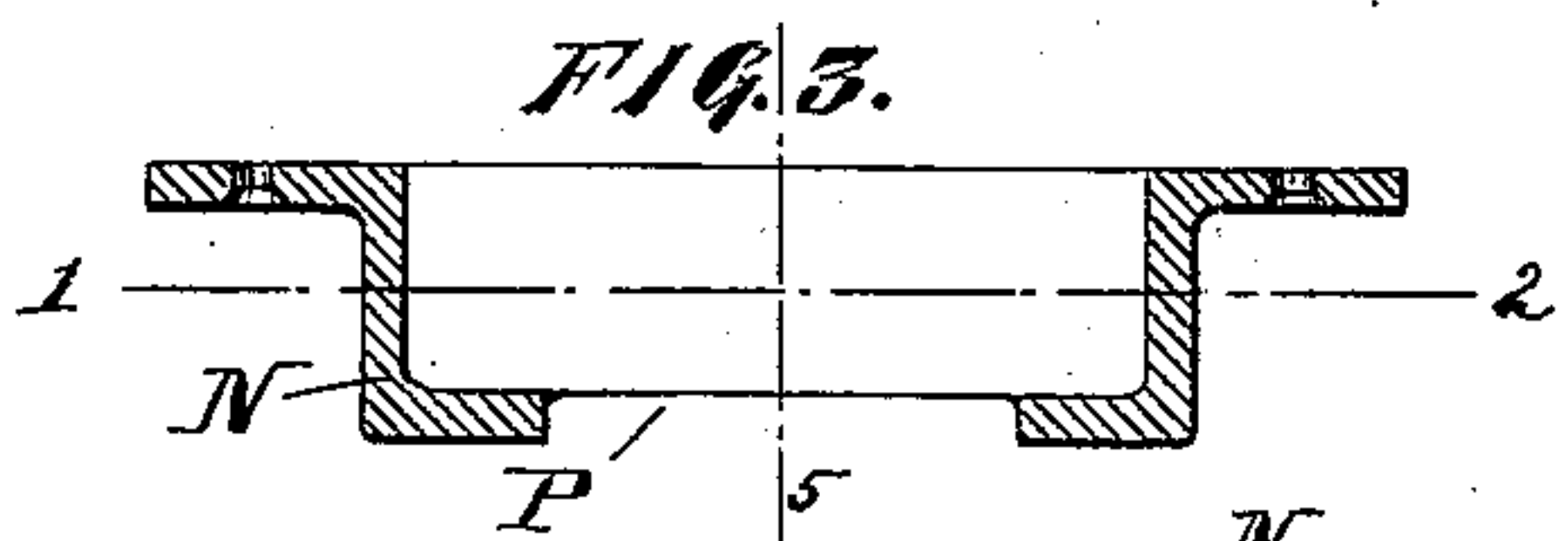


FIG. 3.

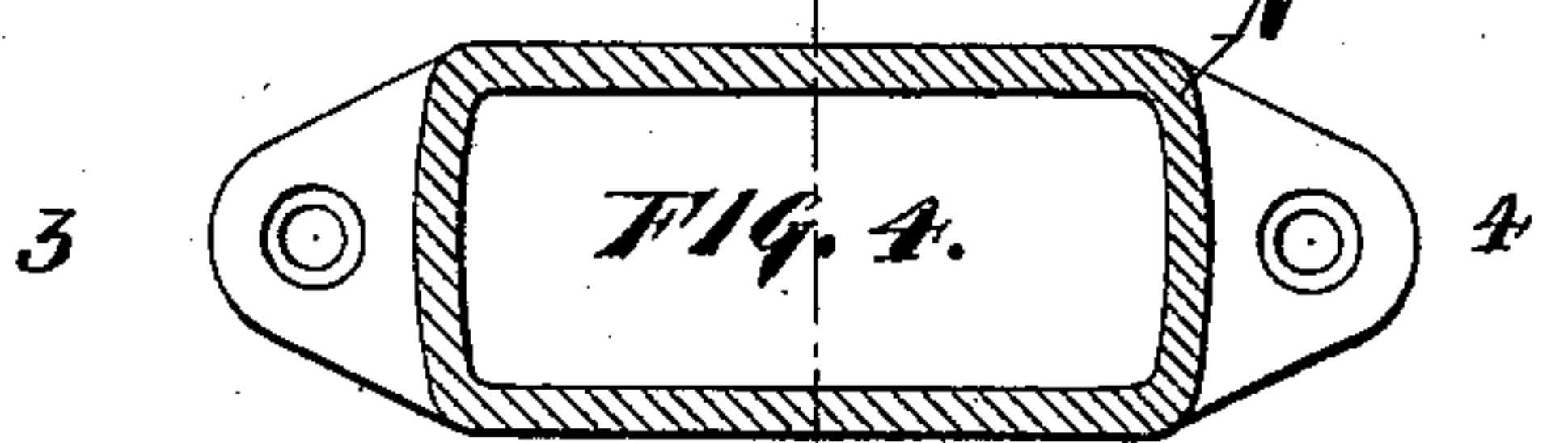


FIG. 4.

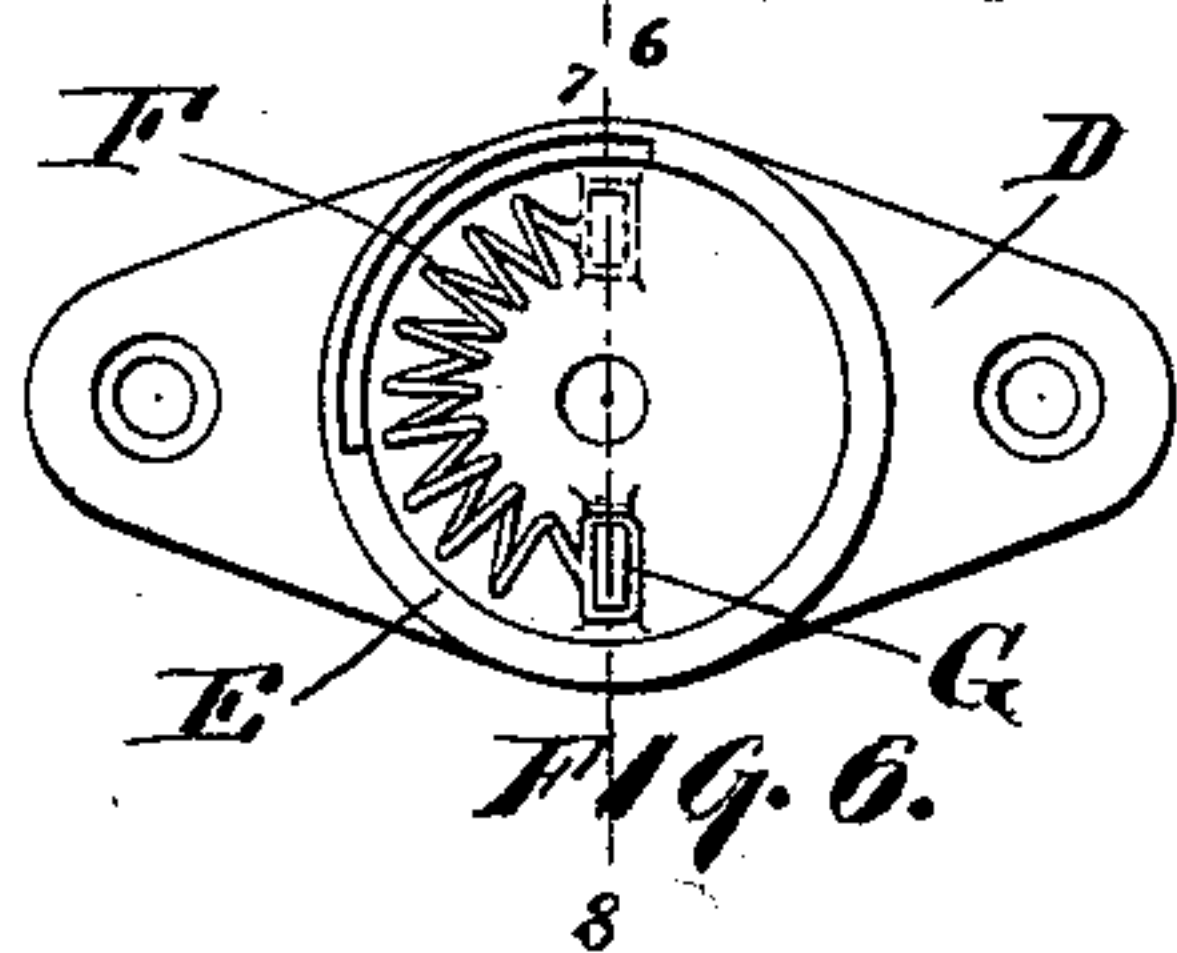


FIG. 5.

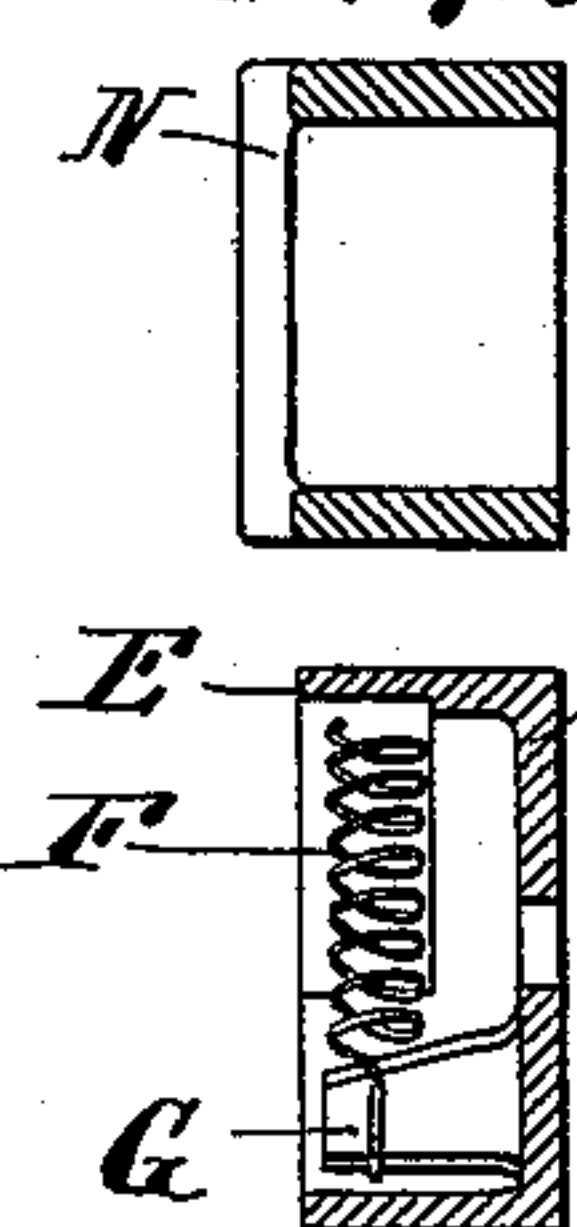


FIG. 6.

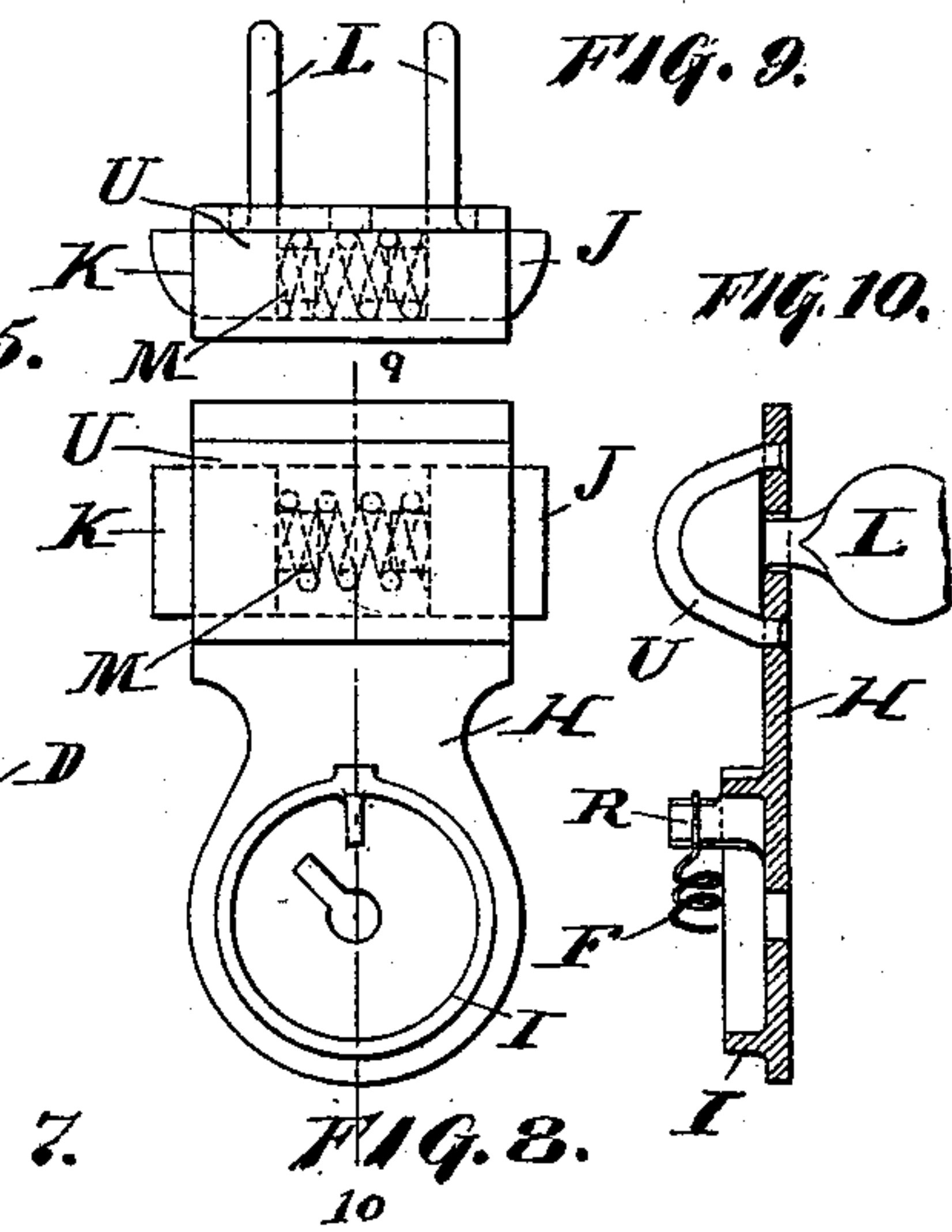


FIG. 7.

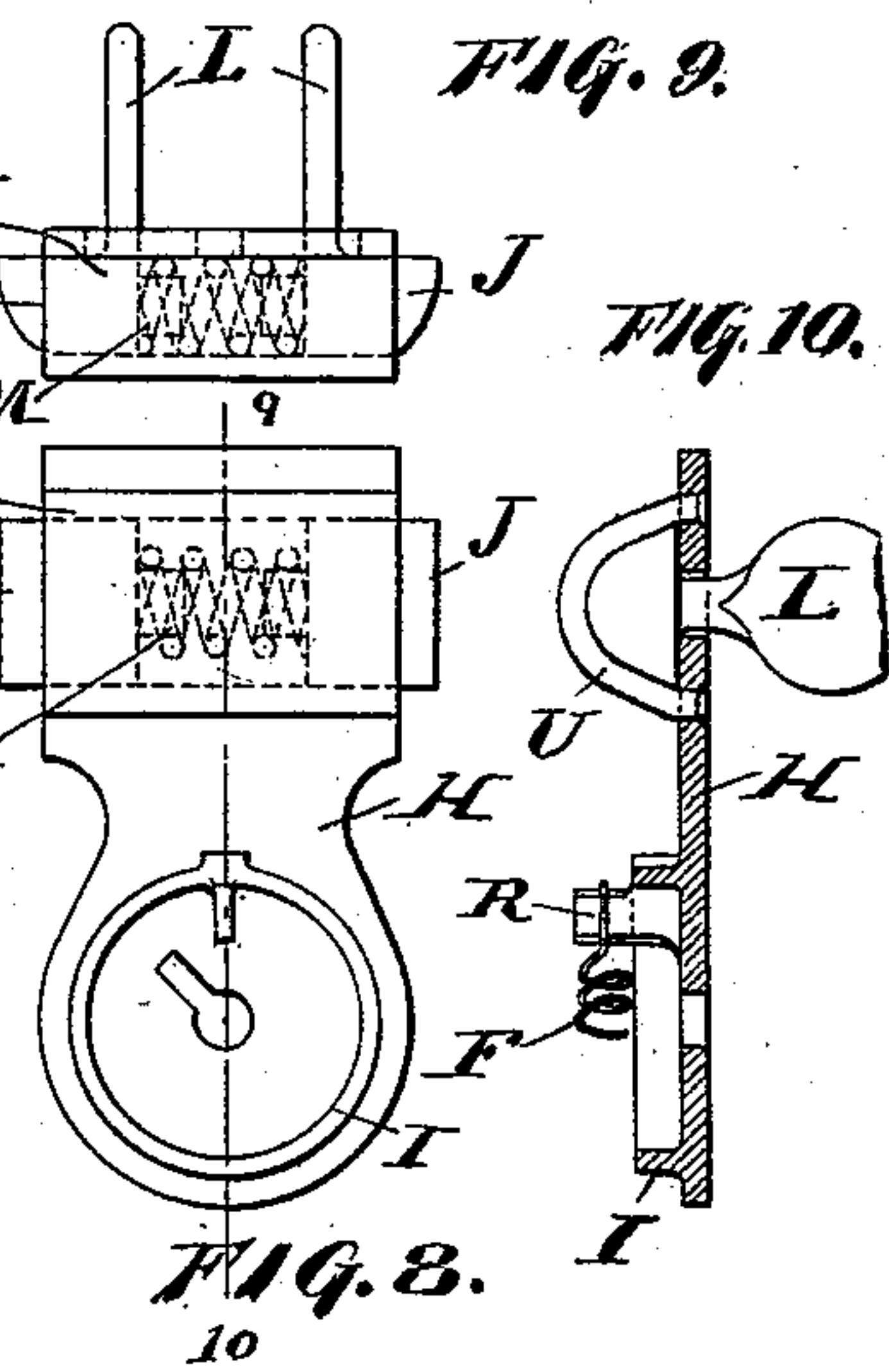


FIG. 8.

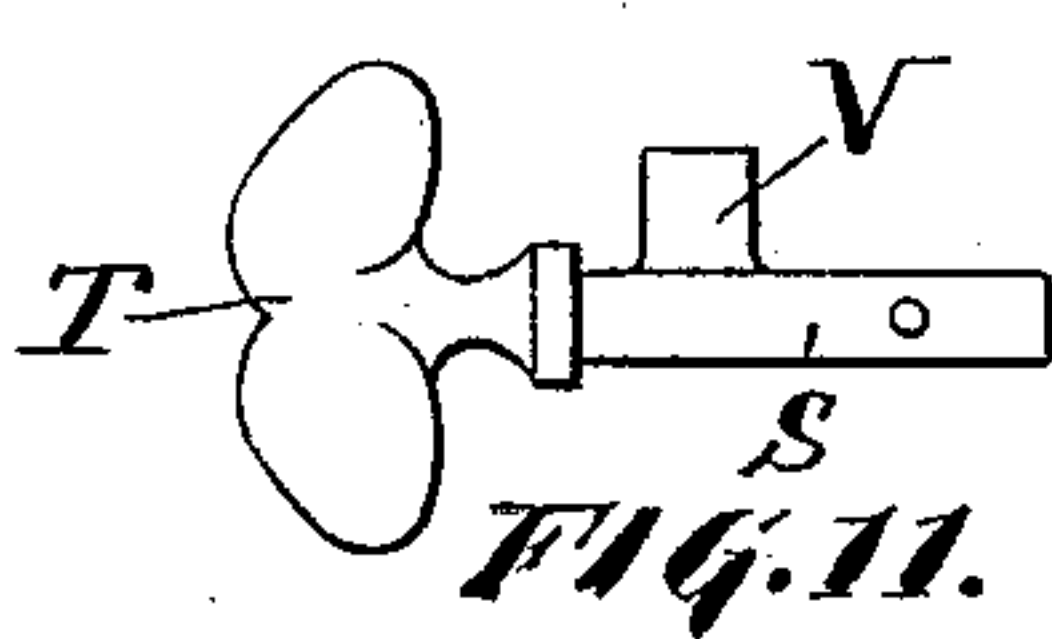


FIG. 9.

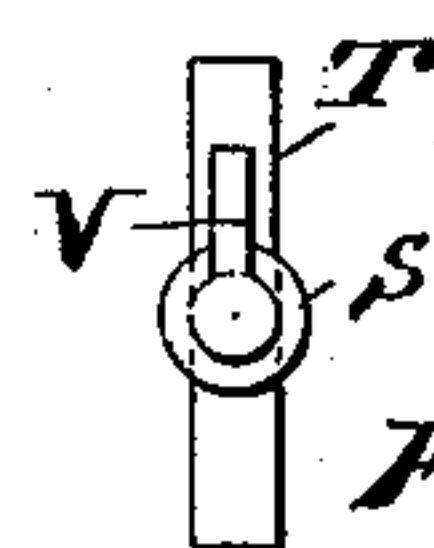


FIG. 10.

WITNESSES:

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UNITED STATES PATENT OFFICE.

ALBERT M. LEVERING, OF PHILADELPHIA, PENNSYLVANIA.

WINDOW-FASTENER.

SPECIFICATION forming part of Letters Patent No. 532,675, dated January 15, 1895.

Application filed April 26, 1894. Serial No. 509,066. (No model.)

To all whom it may concern:

Be it known that I, ALBERT M. LEVERING, a citizen of the United States, and a resident of the city and county of Philadelphia, State of Pennsylvania, have invented certain new and useful Improvements in Window-Fasteners, of which the following is a specification.

My invention relates to improvements in sash fasteners, and the object of my invention is to furnish a device which will automatically and positively lock both the upper and lower sash of a window whenever these sash are in their normal positions, that is when the upper sash is fully raised and the lower sash fully lowered.

My invention is attached to the upper side of the upper rail of the lower sash and to the upper side of the lower rail of the upper sash, and it consists of an arm, which is carried by the upper rail of the lower sash, which is furnished preferably with two spring bolts, and of a keeper carried by the lower rail of the upper sash into which the spring bolts pass when the sash are in their normal positions and which engages the bolts and prevents both sash from being moved until the bolts are withdrawn. The bolts are furnished with finger pieces by means of which they may be withdrawn from the keeper, and the arm which carries the bolts is preferably pivotally attached to the upper rail of the lower sash and furnished with a spring which returns this arm to its normal position as hereinafter described.

In the accompanying drawings forming part of this specification and in which similar letters of reference indicate similar parts throughout the several views, Figure 1, is a plan of a part of the upper rail of the lower sash and part of the lower rail of the upper sash and of my fastener; Fig. 2, a side elevation of Fig. 1; Fig. 3, a section through the keeper on line 3—4, Fig. 4; Fig. 4, a section through the keeper on line 1—2, Fig. 3; Fig. 5, a section of Fig. 4 on line 5—6; Fig. 6, a plan of plate attached to upper rail of lower sash and to which the arm which carries bolts is pivoted, showing spring for returning arm and bolts to their normal positions; Fig. 7, a section of Fig. 6 on line 7—8; Fig. 8, a plan of lower part of bolt carrying arm and bolts; Fig. 9, an end elevation of Fig. 8; Fig. 10, a

section of Fig. 8 on line 9—10; Fig. 11, a side elevation of key for turning bolt carrying arm, and Fig. 12, an end elevation of Fig. 11.

A represents part of the upper rail of the lower sash; B, part of the lower rail of the upper sash. Secured to the rail A, by means of screws C or otherwise, is a plate D which is furnished with an upwardly projecting lug or cup E the upper end of which is open, and within which is a spring F, Figs. 6, 7, and 10, one end of which is attached to some point, as G, within the cup E, and the other end of which is attached to the bolt carrying arm as hereinafter described.

H is an arm one end of which is furnished with a circular projection or boss I, Figs. 8 and 10, which is adapted to enter the top of the cup E carried by plate D, and the other, or outer end, of which is preferably furnished with two bolts J, K, Figs. 1, 8 and 9, which are beveled on their bottom sides as shown in Fig. 9, and which are furnished with upwardly projecting finger pieces L, and which are forced outward by means of a spring M. The bolts J, K, are carried in a sleeve U open at both ends and which is secured to the under side of the front end of the arm H.

N, Figs. 1, 2, 3, 4 and 5, is a keeper carried by lower rail of upper sash, which bolts J, K, enter when the sash are both closed. This keeper is secured to the upper sash by means of screws O, or otherwise, and its upper side is furnished with a slot P through which the bolts can enter it.

Upon the lower side of arm H is a projection R, Fig. 10, to which one end of spring F is secured, and within the cup E is a key S the stem of which is furnished with a bridge V adapted to engage projection R on arm H and the upper part of which projects up and through arm H and is furnished with a thumb piece T; or the thumb piece T may form part of the casting of arm H, the rest of the key being done away with.

When it is desired to open the windows, the thumb pieces L, fast to the bolts J, K, are pressed together until the bolts within the sleeve U are moved in and out of contact with the keeper. They can now be, by moving one sash up and the other down, withdrawn from the keeper N. When the thumb pieces L are released, the spring M, which has been

compressed, expands and throws the bolts out again.

When the windows are closed the beveled sides of the bolts strike the ends of slot P in keeper N and are pushed back. When all the way back they enter keeper N and the spring M throws them out and they are held by this keeper until withdrawn by means of thumb pieces L, automatically and positively fastening the windows whenever they are closed.

It sometimes happens, when the windows are to be cleaned for instance, that the upper rail of the lower sash and the upper rail of the upper sash have to pass each other, the lower window being pushed all the way up, the upper one all the way down. In order to permit this the arm H is pivoted to the upper rail of the lower sash and by means of the thumb piece T the arm may be moved around so as to be parallel with the rail of the sash. When it is in this position the upper rails of the sash may be moved past one another. As soon as the thumb piece T is released the spring F returns arm H to its normal position at right angles to the sash.

While I have described the arm H as furnished with two bolts it will be understood that but one bolt may be used if desired.

Having thus described my invention, I claim—

1. In a sash fastener, in combination, an arm carried by the upper rail of the lower sash, bolts J, K, carried by the outer end of said arm, thumb pieces L carried by said

bolts, a spring M adapted to throw said bolts outward, and a keeper N carried by the upper part of the lower rail of the upper sash and adapted to engage and hold said bolts.

2. In a sash fastener, in combination, an arm H pivotally attached to the upper rail of the lower sash, bolts J, K, carried by the outer end of said arm, thumb pieces L carried by said bolts, a spring M adapted to throw said bolts outward, a spring F for keeping said arm normally at right angles to said sash, and a keeper N carried by the lower rail of the upper sash and adapted to engage and hold said bolts when the sash are closed.

3. In a sash fastener, in combination, a plate secured to the upper rail of the lower sash, a lug or cup carried by said plate, an arm one end of which is furnished with a boss adapted to enter said lug or cup, a spring within said cup adapted to cause said arm to stand normally at right angles to said sash, a bolt or bolts carried by the end of said arm, a spring for forcing said bolt or bolts outward, thumb pieces carried by said bolts, a keeper carried by the lower rail of the upper sash adapted to engage and hold said bolts and means for swinging said arm and bolts around when released from said keeper, all substantially as and for the purposes set forth.

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Witnesses:

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