

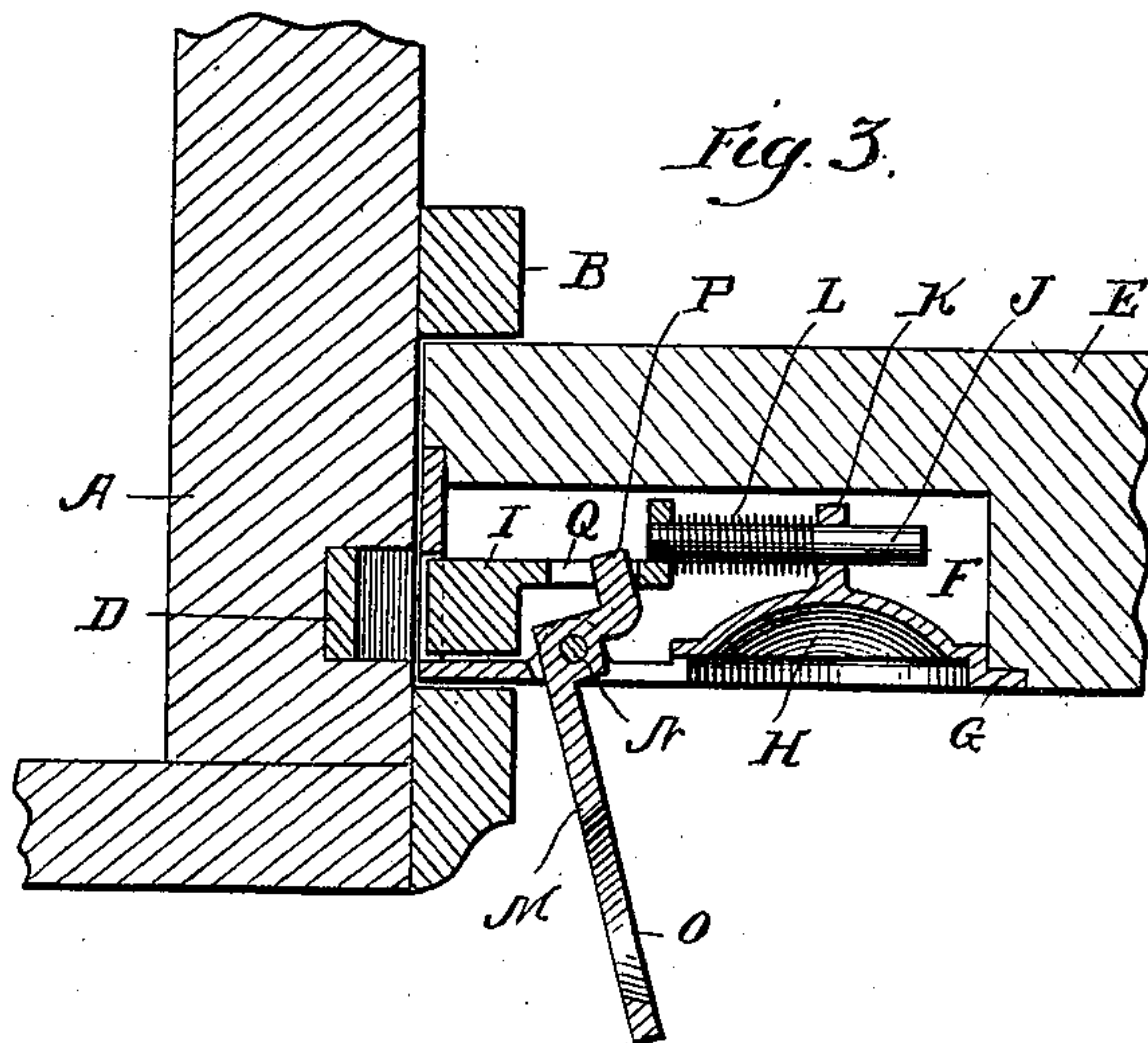
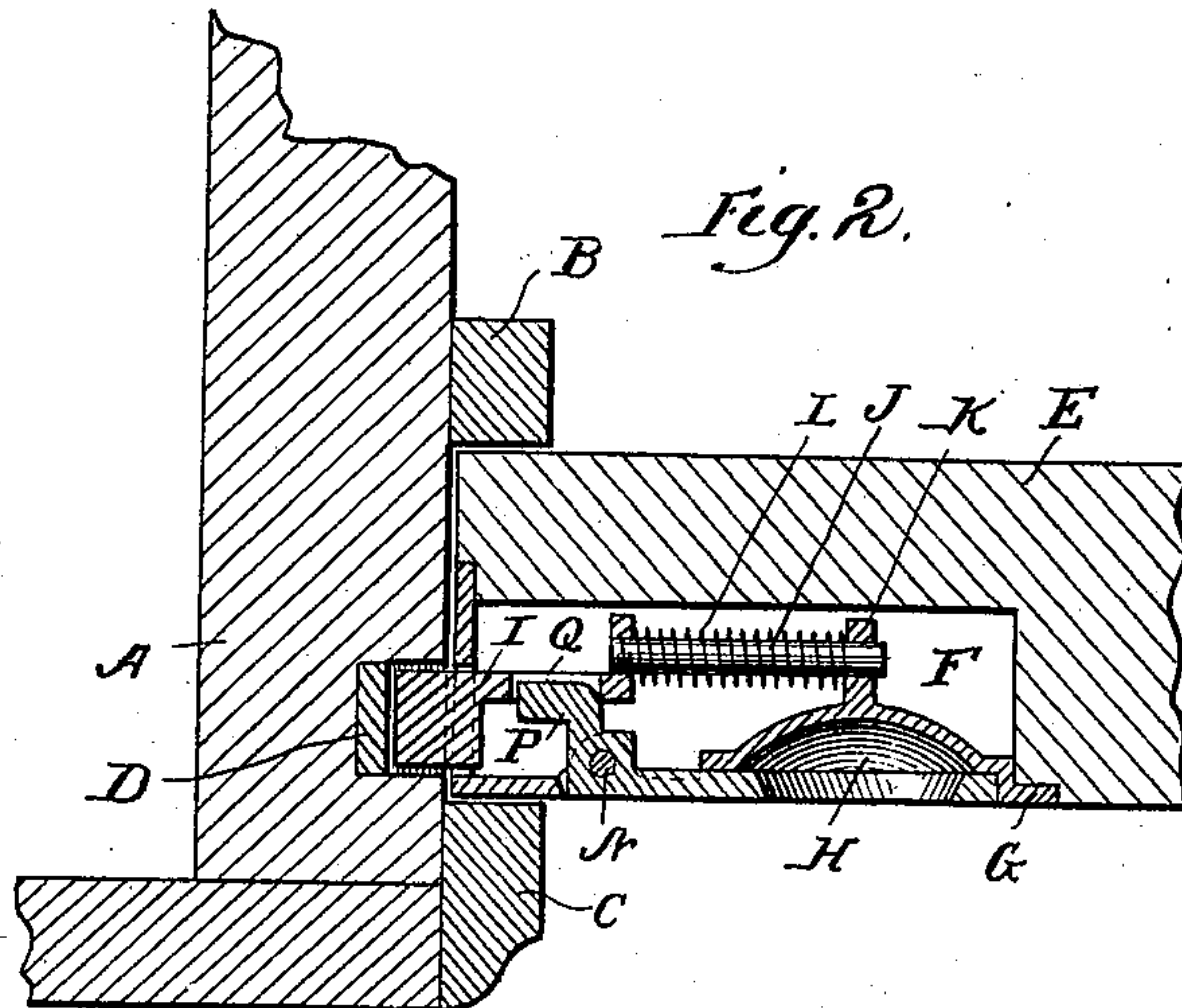
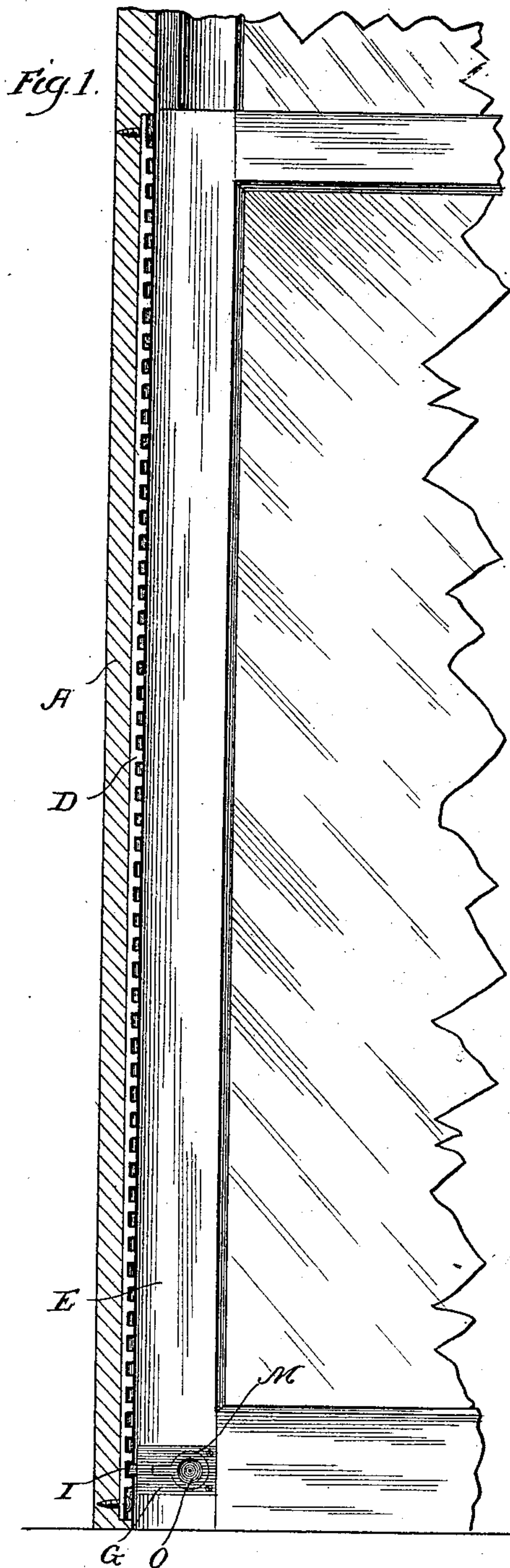
No. 621,600.

Patented Mar. 21, 1899.

L. F. CALDWELL.
SASH FASTENER.

(Application filed June 6, 1898.)

(No Model.)



Witnesses:
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UNITED STATES PATENT OFFICE.

LEWIS F. CALDWELL, OF PHILADELPHIA, PENNSYLVANIA.

SASH-FASTENER.

SPECIFICATION forming part of Letters Patent No. 621,600, dated March 21, 1899.

Application filed June 6, 1898. Serial No. 682,700. (No model.)

To all whom it may concern:

Be it known that I, LEWIS F. CALDWELL, a citizen of the United States, residing at Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented a certain new and useful Improvement in Window Fasteners and Retainers, of which the following is a specification.

My invention relates to a new and useful improvement in window fasteners and retainers, and has for its object to provide an exceedingly simple and effective arrangement of this description which when applied to a window will permit the raising of the window from the inside thereof and the stopping of the same at any desired point without the use of ropes or weights, and when so secured it will be held against being raised or lowered except by the proper manipulation of the fastener; and a further object of my invention is to so construct and arrange the device as to in no wise mar the appearance of the window or sash when applied thereto nor interfere with surrounding objects.

With these ends in view this invention consists in the details of construction and combination of elements hereinafter set forth and then specifically designated by the claims.

In order that those skilled in the art to which this invention appertains may understand how to make and use the same, the construction and operation will now be described in detail, referring to the accompanying drawings, forming a part of this specification, in which—

Figure 1 is a section of a portion of a window-frame, showing my improvement applied thereto and to the sash; Fig. 2, a horizontal cross-section of a portion of the sash and window-frame, taken through the fastener and clearly showing the position of the parts thereof when the window is locked; and Fig. 3, a similar view, but showing the parts of the fastener in the position assumed when the sash is unlocked.

In carrying out my invention as here embodied, A represents the window-frame, having the usual channel therein formed by the parting-strip B and stop-bead C. Within the channel is formed a longitudinal groove having set therein a rack-bar D, in which are

formed square notches, for the purpose hereinafter set forth.

E represents the window-sash fitted to slide in the channels of the window-frame, and in the side rail thereof is formed a recess F for the accommodation of the fastener G, the latter consisting of a face-plate which is set flush in the sash and has therein a concave depression H.

I represents a bolt which is fitted to slide back of the face-plate and has secured thereto the guide-rod J, which runs through the lug K, and between this lug and the heel end of the bolt is interposed a spring L for the purpose of normally holding the bolt in its distended position, as shown in Fig. 2.

A thumb-lever M is pivoted at N within a slot formed in the face-plate and has a ring O for convenience in manipulation, and this ring when in its normal position lies flush with the face-plate within the depression H, so as to be out of the way and give a neat appearance to the completed device. The thumb-lever has formed upon its inner end a nose P, which projects into the slot Q in the bolt and is of such shape relative to said slot as to lock the bolt against independent movement when the lever is in its normal position, as clearly shown in Fig. 2, and yet serves to retract said bolt when the lever is swung outward, as shown in Fig. 3, by which arrangement it will be seen that when the parts are in their normal position the bolt cannot be retracted except by the proper manipulation of the lever; but when the bolt has been retracted and the lever is released the spring L in forcing the bolt outward will also act to restore the lever to its normal position.

From the foregoing description it is obvious that when the window-sash is closed it will be securely locked as against persons from the outside, and yet the sash may be readily raised at any time by the swinging of the thumb-lever outward, and when the sash has reached the point desired the releasing of this lever will permit the bolt to shoot within one of the square notches in the rack-bar D, which will secure the sash in that particular position against either upward or downward movement until the lever has been again actuated to retract the bolt.

By the use of my improvement the use of ropes and weights is avoided, while the sash may be raised or lowered and secured at any point.

5 One of the advantages of my invention is that the fastener and rack-bar are easily placed in position and the frame is entirely flush with the window-sash, while the latter is concealed from view when the sash is closed
10 and in no wise mars the appearance of the window.

The cost of my improvement is exceedingly small relative to the cost of weights and ropes and the application of the same to windows.

15 Having thus fully described my invention, what I claim as new and useful is—

1. In combination a rack-bar, a bolt adapted to engage the rack-bar said bolt having a slot, a lever having a nose fitting in the slot
20 and adapted to abut the bolt at each end of the slot to hold the bolt against independent movement, and a guide-rod and spring for the bolt, substantially as described.

2. In combination with a rack-bar having
25 square notches therein secured to the window-frame, a fastener consisting of a plate adapted to be secured to the sash, said plate having a depression therein, a bolt fitted to slide upon the reverse side of the plate, a lug formed
30 with the plate, a rod arranged to slide in said

lug, said rod being secured to the heel of the bolt, a spring coiled about the rod between the heel of the bolt and the lug, and a thumb-lever fitted within the bolt and terminating in a nose which projects into the slot formed
35 in the bolt, as specified.

3. A window fastener and stop consisting of a plate adapted to be set in a window-sash, said plate having a depression therein, a thumb-lever pivoted within the slot of said
40 plate, a ring formed with the lever and adapted to lie within the depression so as to be flush with the plate, a nose formed with said lever, a bolt having a slot for the reception of the nose of the lever, said slot and nose being so
45 formed relative to each other as to hold the bolt against independent movement when in its normal position and retract the bolt when the lever is swung outward, a rod secured to the bolt and passing through the lug, and a
50 spring interposed between said lug and the heel of the bolt, as and for the purpose set forth.

In testimony whereof I have hereunto affixed my signature in the presence of two sub-
55 scribing witnesses.

LEWIS F. CALDWELL.

Witnesses:

JNO. H. CALDWELL, Jr.,
ANDREW SMITH.