

(No Model.)

E. R. FERRY.
FASTENER FOR MEETING RAILS OF SASHES.

No. 442,576.

Patented Dec. 9, 1890.

Fig. 1

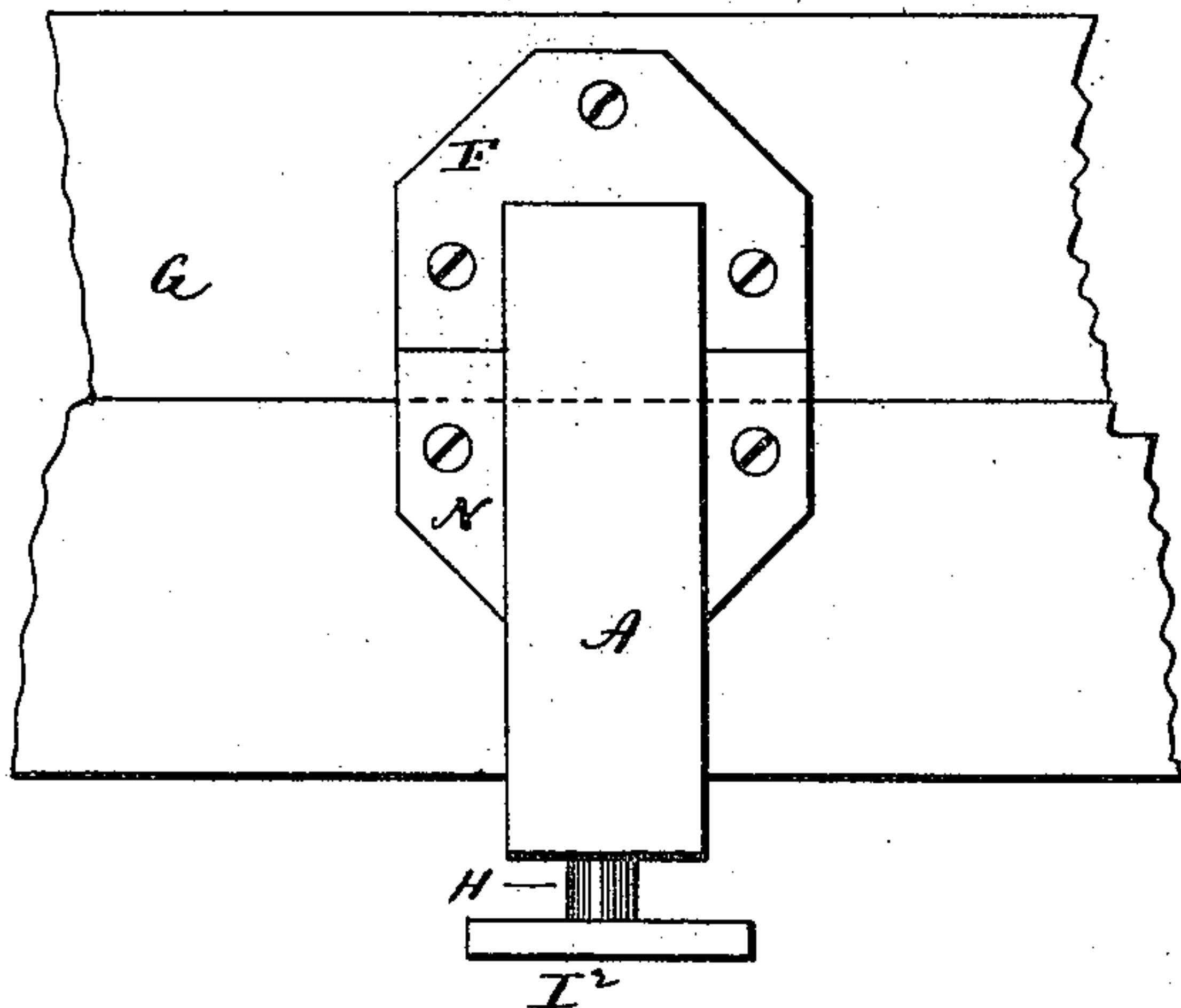


Fig. 2

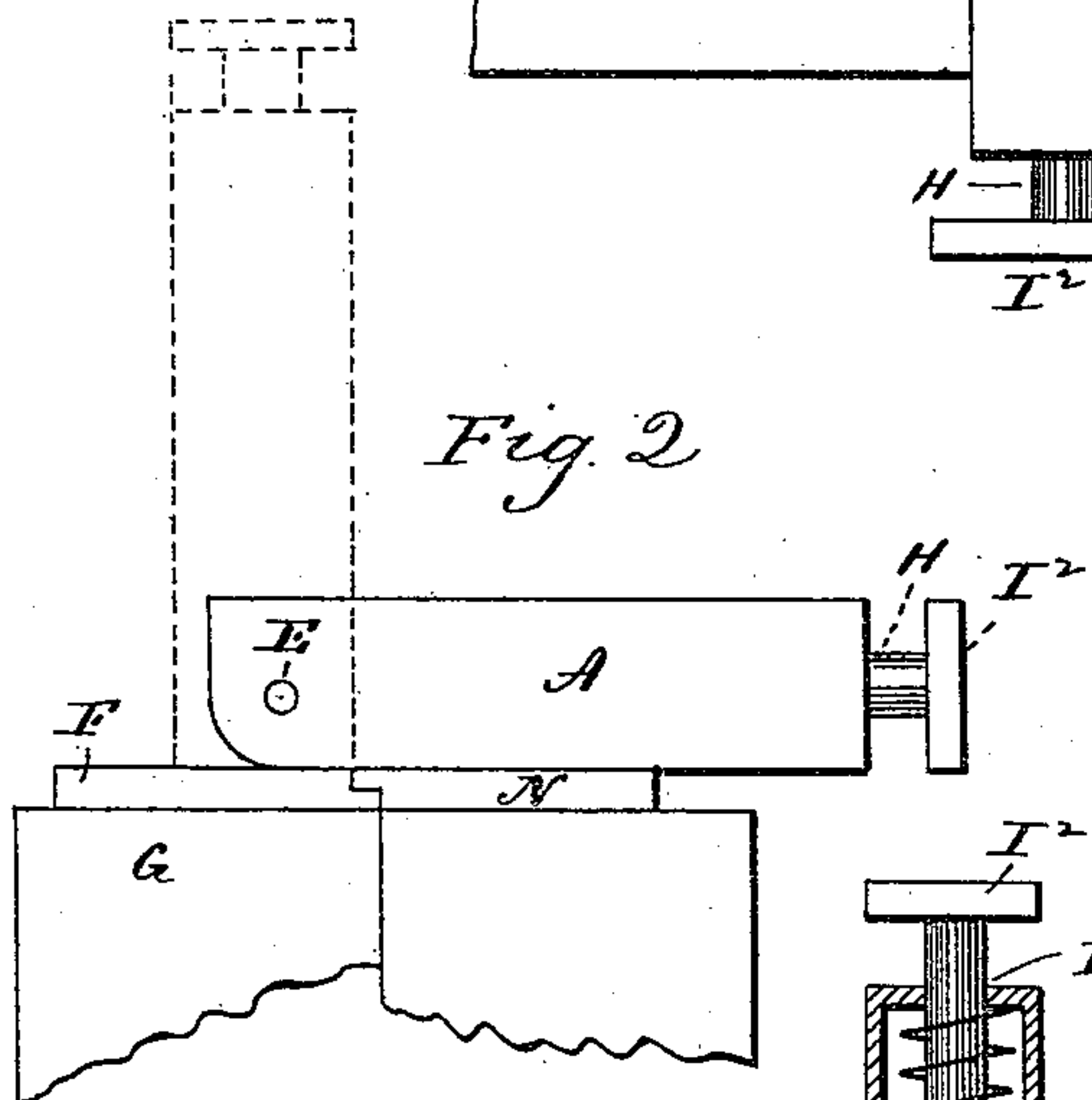


Fig. 3

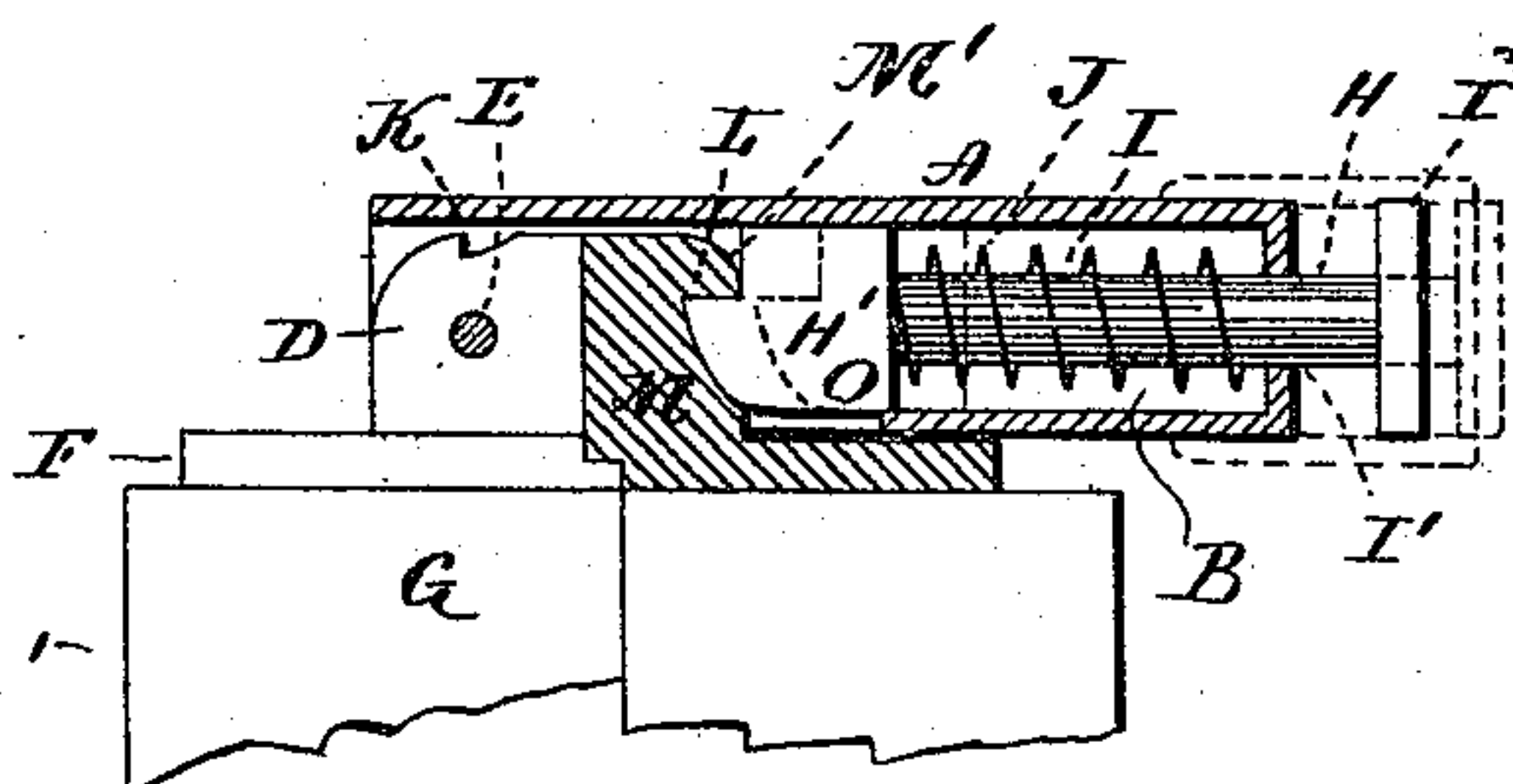
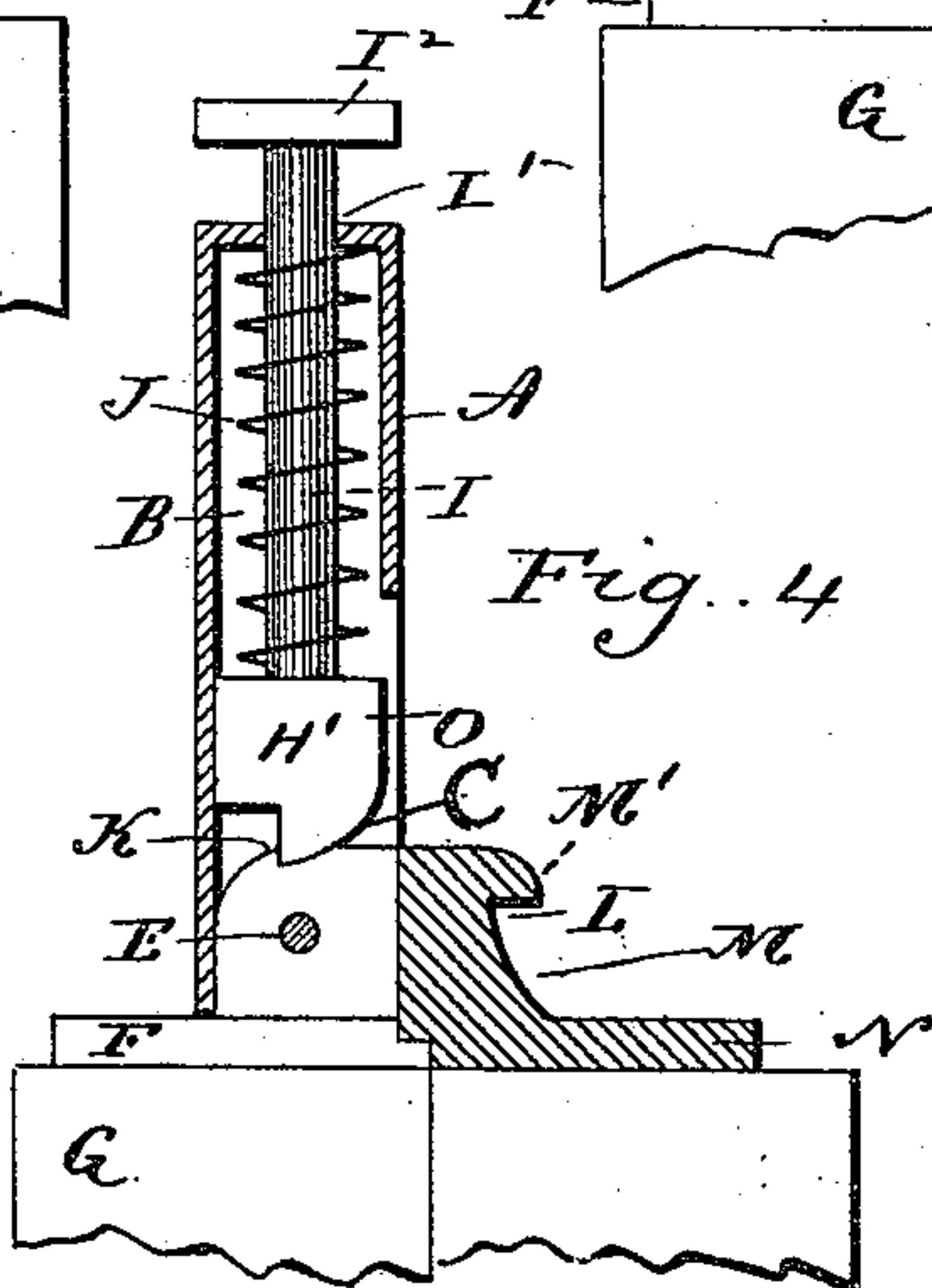


Fig. 4



Witnesses
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UNITED STATES PATENT OFFICE.

EDWIN R. FERRY, OF NEW HAVEN, CONNECTICUT, ASSIGNOR OF ONE-HALF
TO MATTIE CAMERON, OF SAME PLACE.

FASTENER FOR THE MEETING-RAILS OF SASHES.

SPECIFICATION forming part of Letters Patent No. 442,576, dated December 9, 1890.

Application filed August 15, 1890. Serial No. 362,078. (No model.)

To all whom it may concern:

Be it known that I, EDWIN R. FERRY, of New Haven, in the county of New Haven and State of Connecticut, have invented a new Improvement in Sash-Fasteners; and I do hereby declare the following, when taken in connection with the accompanying drawings and the letters of reference marked thereon, to be a full, clear, and exact description of the same, and which said drawings constitute part of this specification, and represent, in—

Figure 1, a broken plan view of a sash-fastener constructed in accordance with my invention and shown in its locked adjustment, the meeting-rails of the upper and lower sashes to which the fastener is applied being broken away on both sides thereof; Fig. 2, a view of the device in side elevation, with the operating-lever shown in its locked adjustment by full lines and in its unlocked adjustment by broken lines; Fig. 3, a view of the device in vertical central section, with the lever in its locked adjustment; Fig. 4, a similar view with the operating-lever in its unlocked adjustment.

My invention relates to an improvement in sash-fasteners, the object being to produce a cheap, strong, convenient, and effective device.

With these ends in view my invention consists in certain details of construction and combinations of parts, as will be hereinafter described, and pointed out in the claim.

As herein shown, the operating-lever A of my improved device is made square in transverse section, provided with a longitudinal chamber B, extending throughout its length, closed at its outer end, open at its inner end, and having the inner end of its lower face cut away, as at C, to adapt it to fit over a lug D, to which it is pivotally secured by a horizontal pin E, passing, through the same, the said lug being formed integral with a base-plate F, adapted to be secured to the upper face of the meeting-rail of the upper sash G.

A plunger H, located within the operating-lever and provided at its inner end with a catch H', having a bevel-nose, is secured to a stem I, having bearing at its outer end in an opening I', formed in the closed outer end of

the lever and projecting through the said opening for the attachment of the operating-button I², which is seized by the fingers to manually retract the catch against the tension of the spiral spring J, which encircles the stem and is interposed between the closed outer end of the lever and the outer face of the plunger H, located therein. The upper face of the lug D has a transverse retaining-notch K formed in it to receive the point of the catch when the lever is lifted into its vertical unlocked position and hold the same in that adjustment. The lever is locked in its horizontal or locked position by the entrance of its beveled catch into a suitable recess L, formed in the inner face of a lug M, cast integral with a base-plate N, which is adapted to be secured to the meeting-rail of the upper sash, the inner corner M' of this lug being beveled to co-operate with the edge O of the lever in drawing the two sashes together and in lifting them into the right relations for being fastened in case they are not in such positions when the fastening operation is begun. The said edge O of the lever is formed by cutting away the lower face of its inner end at C, as before mentioned, whereby it is also adapted to fit over the lug M.

When the device is in its unlocked adjustment, the operating-lever is held in the vertical position in which it is shown in Fig. 4 of the drawings by full lines and in Fig. 2 of the drawings by dotted lines, being held in such position by the engagement of the nose of its catch with the notch K, formed in the lug D. In this adjustment of the operating-lever it is quite out of the way and does not interfere with the raising and lowering of either sash.

When it is desired to fasten the sashes together, the operating-lever is grasped by its upper end and drawn inward, whereby the beveled nose of the catch H' is caused to ride out of the retaining-notch K in the lug D and over the inner edge of the said lug and onto the outer edge of the lug M, and thence over the beveled inner edge thereof, the catch being all this time retired against the tension of the spring I. If the sashes are in their right positions at this time, the edge O of the

lever will just clear the beveled inner edge of the lug M; but in case they are not in their right positions the said edge will engage the beveled face and the leverage of the lever
 5 utilized in drawing the two sashes into their right relations for fastening. Just as soon as the point of the catch passes the extreme inner edge of the lug M it will be thrown by the spring I into the locking-recess L of the
 10 lug M, whereby the lever is firmly locked in its horizontal locked adjustment, in which it cannot be tampered with for unlocking the sashes by any of the means ordinarily employed. To unlock the sashes the button I² is seized
 15 by the fingers and pulled outward to retract the nose of the catch from the locking-recess, after which the lever is lifted slightly, when the beveled nose of the catch and the beveled inner face of the lug will co-operate with the
 20 spring I to automatically throw the lever into its unlocked position, in which it is retained, as before described, by the entrance of the nose of the catch into the retaining-notch in the lug D. The inner edges of the base-plates F
 25 and N are rabbeted, as at P and P', to form a joint which prevents the insertion of a knife or wire between the two sashes.

If desired, the operating-button I² may be replaced by a cap, such as indicated in out-
 30 line by broken lines in Fig. 3 of the drawings.

I do not claim, broadly, a sash-fastener consisting of a lever hinged to the meeting-rail of the upper sash and adapted to swing downward and forward over the meeting-rail of the
 35 lower sash, the lower sash provided with a lug

with which a spring-bolt in the said lever may engage when the said lever is turned forward and so as to lock the said lever in the engaged position to hold the sashes together, as such, I am aware, is not new. 40

What I claim as new, and desire to secure by Letters Patent, is—

In a sash-fastener, the combination of the lug D, adapted to be secured to the meeting-rail of the upper sash, a longitudinally-cham- 45 bered lever A, pivoted to the said lug D and so as to swing in a vertical plane, a bevel-nose catch H' on one end of a stem I, the stem extending through the outer end of the lever and there provided with a suitable button, a 50 spring in the chamber of said lever tending to force the said catch toward the pivot on which the lever is hung, with the lug M, adapted for attachment to the meeting-rail of the lower sash, and constructed with a re- 55 cess L, with which the said catch is adapted to engage when the lever is turned to the sash-locking position, and the lug D, constructed with a notch K, with which the said catch is adapted to engage when the lever is turned 60 to the unlocked position, all substantially as described.

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

EDWIN R. FERRY.

Witnesses:

FRED C. EARLE,
 LILLIAN D. KELSEY.