(No Model.)

E. HORTON.

SASH FASTENER.

No. 417,029. Patented Dec. 10, 1889.

Fig. 1

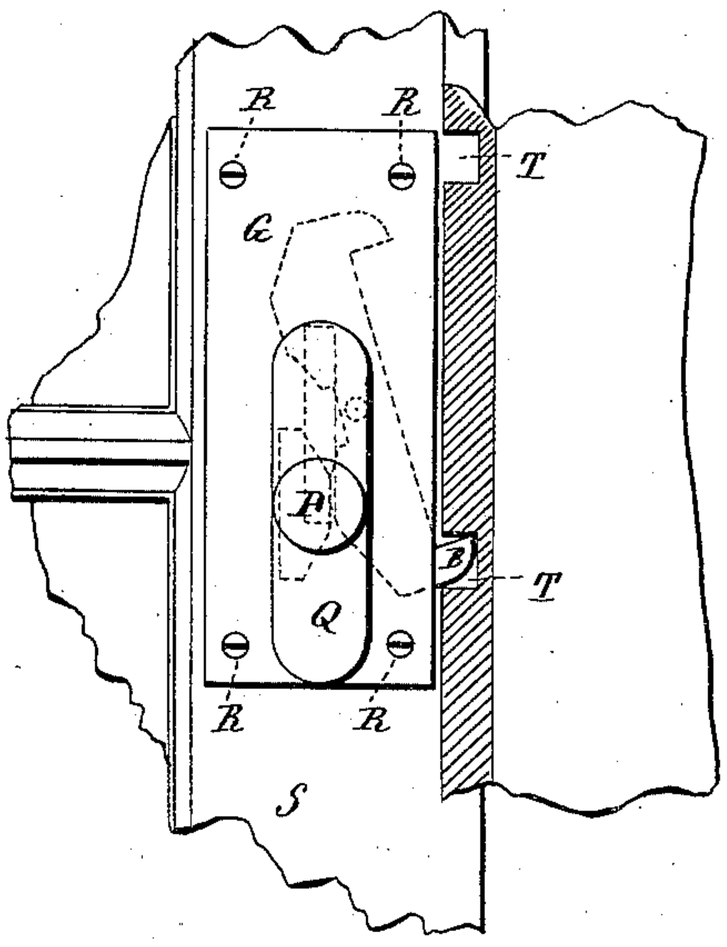


Fig. 2

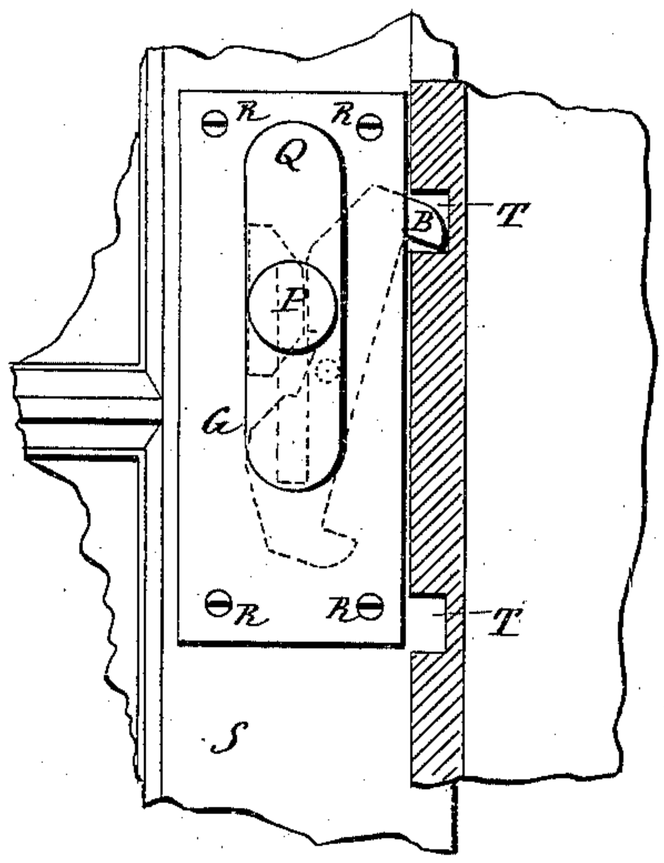


Fig. 3.

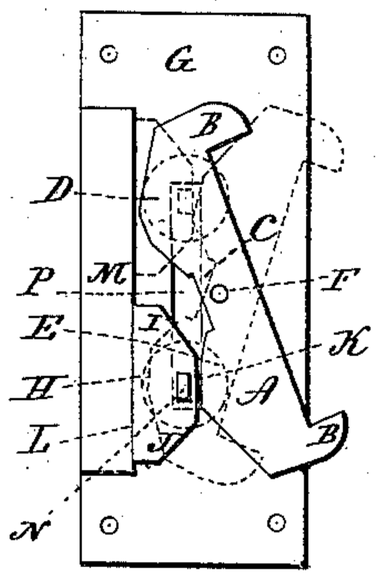
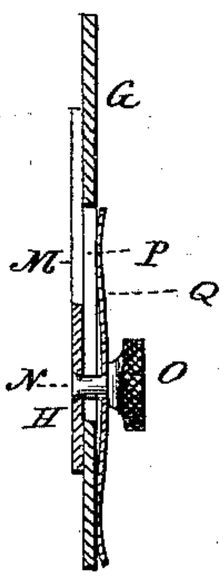


Fig. 4



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EVERETT HORTON, OF BRISTOL, CONNECTICUT.

SASH-FASTENER.

SPECIFICATION forming part of Letters Patent No. 417,029, dated December 10, 1889.

Application filed October 14, 1889. Serial No. 326,961. (No model.)

To all whom it may concern:

Be it known that I, EVERETT HORTON, of Bristol, in the county of Hartford and State of Connecticut, have invented new Improvements in Sash-Fasteners; and I do hereby declare the following, when taken in connection with 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 view, partly in front elevation and partly in section, showing the application of my improved fastener and adjusted for locking the sash down; Fig. 2, a similar view showing the fastener adjusted for locking the sash in a raised position; Fig. 3, a reverse detached view of the fastener; Fig. 4, a longitudinal central section through the fastener.

This invention relates to an improvement in sash-fasteners, the object being to produce a simple, cheap, and reliable device adapted to be easily applied and operated.

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 claims.

As herein shown, the device is provided with a two-armed locking-lever A, having an outwardly-projecting locking-finger B located at each of its ends and having its inner edge cut away midway between its ends to form a clearance-space C, and two cam-surfaces D and E, respectively located on opposite sides of the said space and inclined in opposite directions. This lever is hung upon a pin F, placed opposite the clearance-space, to the inner face of a frame-plate G of oblong shape. An operating-slide H, having its outer edge shaped to form two cam-surfaces I and J and a raised locking-seat K, which is located between them and having a straight inner edge L, is interposed between the said lever and a straight bearing-ledge M, formed upon the back of the frame-plate, so that its cam-surfaces I and J and its seat K co-operate with the cam-surfaces D and E and the clearance-space C of the locking-lever. The said slide is secured to the inner end of the shank N of a shouldered operating-button O, located on the outside of the plate, which is provided with a vertically-elongated slot P, through which the shank passes and in which it plays. An elongated spring-plate Q, interposed between the button and the plate, conceals the slot and holds the button, and hence the slide, in any desired adjustment. The said plate is secured by screws R to one of the stiles S of a window-sash, and the window-casing is provided with a vertical series of locking-pockets T, into which the fingers of the lever enter when the lever is canted in either direction. In the vertical or normal position of the lever, in which the sash is free to be raised or lowered, the slide stands opposite the pin on which the lever is hung so that its outer edge fits into the inner edge of the lever, the slide being sustained in this position by the action of the spring-plate.

Now to lock the sash in an elevated position the operating-button is grasped and raised to the upper end of the slot in the plate, whereby the cam-surface I of the slide, which is raised with the button, co-operates with the cam-surface D of the lever and throws the upper end thereof outward, so that the finger at the said end enters one of the locking-pockets in the window-casing, When the slide has reached the limit of its upward movement, its locking-seat K stands behind the crest of the said cam-surface D and positively locks the lever in its canted position, from which it cannot be released except by first moving the slide by means of the button. To lock the sash in its closed position, the operation above described is reversed.

It will thus be seen that by the simple movement of a button the lever may be positively locked for holding the sash in an elevated position or in its closed position.

My improved fastener is obviously simple and cheap to make, is durable and reliable in use, cannot be tampered with by tools operated from the outside of the sash, and is readily applied without defacing the sash or casing.

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

1. In a sash-fastener, the combination, with

a two-armed locking-lever pivoted midway of its length, of a cammed operating-slide engaging with the inner edge of the lever to cant it into its two locking positions, substantially as described.

2. In a sash-fastener, the combination, with a two-armed locking-lever having an outwardly-projecting locking-finger located at each of its ends and having its inner edge shaped to form a clearance-space and two cam-surfaces, of an operating-slide having two cam-surfaces and a seat and arranged to tilt the lever into each of its locking positions and to positively lock it in each of those positions, substantially as described.

EVERETT HORTON.

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