No. 643,400. Patented Feb. 13, 1900.

E. M. COMSTOCK.

SASH FASTENER.

(Application filed May 20, 1898.)

(No Model.)

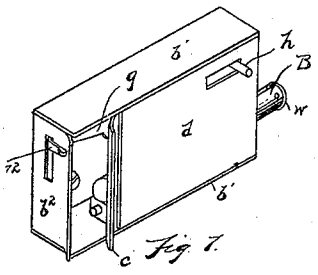


Fig. 1.

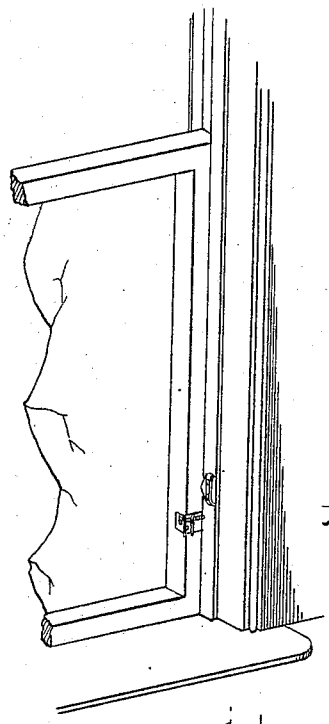


Fig. 2.

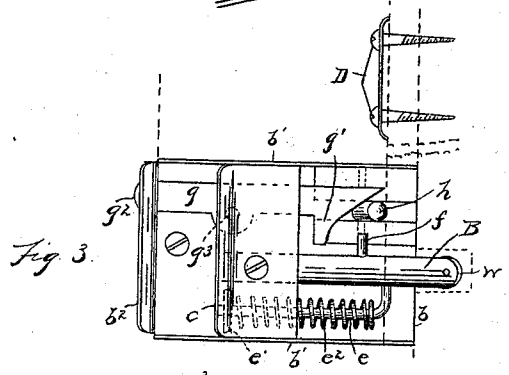


Fig. 3.

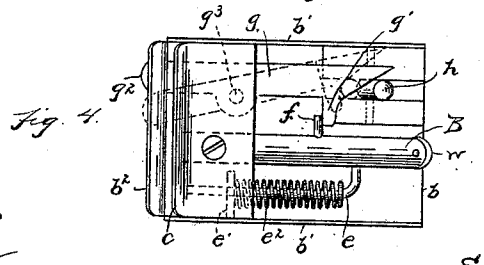


Fig. 4.

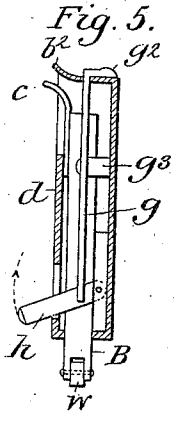


Fig. 5.

WITNESSES
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UNITED STATES PATENT OFFICE.

EDGAR M. COMSTOCK, OF YPSILANTI, MICHIGAN.

SASH-FASTENER.

SPECIFICATION forming part of Letters Patent No. 643,400, dated February 13, 1900.

Application filed May 20, 1898. Serial No. 681,178. (No model.)

To all whom it may concern:

Be it known that I, EDGAR M. COMSTOCK, a citizen of the United States, residing at Ypsilanti, county of Washtenaw, State of Michigan, have invented a certain new and useful Improvement in Sash-Fasteners; and I 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 pertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification.

This invention relates to sash-fasteners; and it consists in the improvements hereinafter described, and pointed out in the claims.

In the drawings, Figure 1 is a perspective of the fastener. Fig. 2 indicates the location of the fastener on the window-sash. Fig. 3 is a plan of the fastener with the top part of the inclosing walls removed. This figure shows also the means for releasing the bolt from its detent. Fig. 4 is a plan of the fastener, showing the bolt held back by its detent. The cover-wall is removed in this figure. Fig. 5 is a plan view of the lock with the upper part of the case broken away.

The fastener consists of a box, preferably of metal, in which there is a sliding bolt B, arranged to be withdrawn, so that the front end of the bolt is flush with the front wall b of the fixture-casing, or to be projected a distance sufficient to engage in a socket and hold the window from being either raised or lowered. To the back end of the bolt B is secured a thumb-piece c. This may be, as shown in the drawings, a broad curved plate that extends from side to side of the fixture-casing b', or the cover-plate d of the fixture-casing may extend to the back wall b^2 and the thumb-piece project through a slot in it.

To the bolt B is secured a parallel bar e, that passes through a perforation in a lug e', and a coiled spring e^2 is interposed between the front end of the parallel bar e and the lug e'. The parallel bar serves to aid in holding the bolt B from rotation on its axis and also serves to retain the spring e^2 in proper position to constantly press the bolt B forward to its locking position. There is on the bolt B a spur f, and there is located within the fixture-casing a lever g, the front end of which is scarfed off and is provided with a hook g'. The rear end extends to the rear end of the casing and terminates with an actuating-handle g^2. In front of the scarfed-off portion of the lever g is a second lever h, which lies athwart the scarfed-off end of the lever g, and this lever h is pivoted to the back of the case and extends to the front of the case and through the case, from which it projects far enough to engage the fixture D, hereinafter mentioned. It has a vibratory motion and is capable of actuating the lever g and causing it to turn on its fulcrum g^3. The principal motion of the lever h is in an arc substantially parallel with the path of travel of the bolt B, and it has engagement with the lever g when its upper end is thrown backward—that is, toward the fulcrum-point of the lever g—to cause the front end of the lever g to move in an arc away from the bolt, and this causes the disengagement of the catch g' with the spur f. These two parts—the catch g' and the spur f—are brought into holding engagement by the operator when he draws the bolt back by means of the thumb-piece c and pushes the lever g^2 in a direction to bring about the engagement. On the casing of the window and a short distance above the location of the fixture on the sash is secured a fixture D, which slopes or slants from the window-casing outward and extends into the path of the protruding end of the lever h, and whenever the window is raised or lowered so as to pass the piece D the piece engages the lever, throws the protruding end backward, and brings about a disengagement between the hook g and the spur f, so that whenever the window-sash is opened from a fully-closed position or is closed from a position so open that the fixture was above the piece D the detent is disengaged and the bolt B will work.

The front end of the bolt B is provided with a friction-wheel w, which serves to prevent the sliding engagement between the end of the bolt and the window-casing and overcomes the abrading effect of the bolt on the casing.

What I claim is—

1. In a sash-fastener, the combination of a locking-bolt provided with a spur, means for actuating the bolt, a lever provided with a hook arranged to engage the spur on the bolt said lever being provided with an actuating-

handle that projects to the outside of the casing, a part arranged to engage the hooked lever and swing the same, and provided with an end which protrudes to the outside of the case, and a piece, D, adapted to actuate said last-mentioned lever, substantially as described.

2. In a sash-fastener the combination of a bolt, B, adapted to be actuated longitudinally, a spring acting to protrude said bolt, a spur, *f*, on said bolt, a lever, *g*, approximately parallel to the bolt, B, and extending from the end of the casing as at, g^2, said lever being provided with a hook, *g'*, adapted to engage said spur and hold said bolt in its retracted position, a part, *h*, lying against said beveled surface, and adapted to move in the direction of the length of the lever, *g*, the part, *h*, protruding from the front of the casing, and a piece, D, adapted to actuate the part, *h*, by striking against its protruding portion, substantially as described.

In testimony whereof I sign this specification in the presence of two witnesses.

EDGAR M. COMSTOCK.

Witnesses:
C. E. HAWKES,
WINFIELD S. THORNTON.