

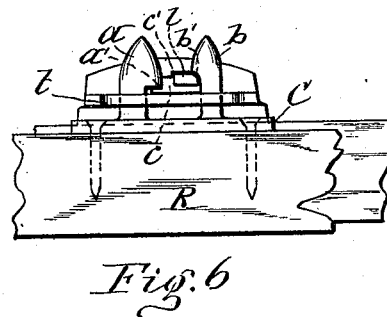
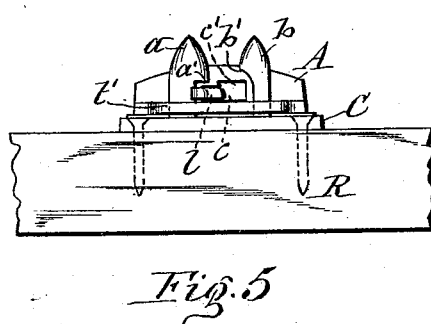
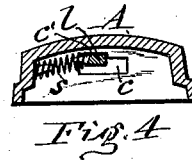
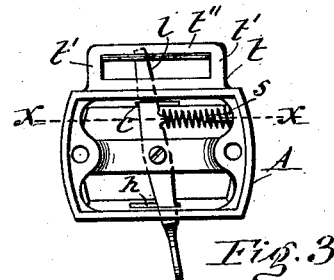
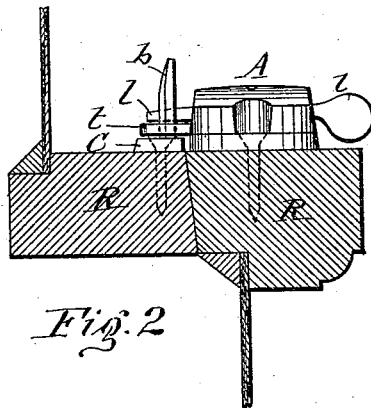
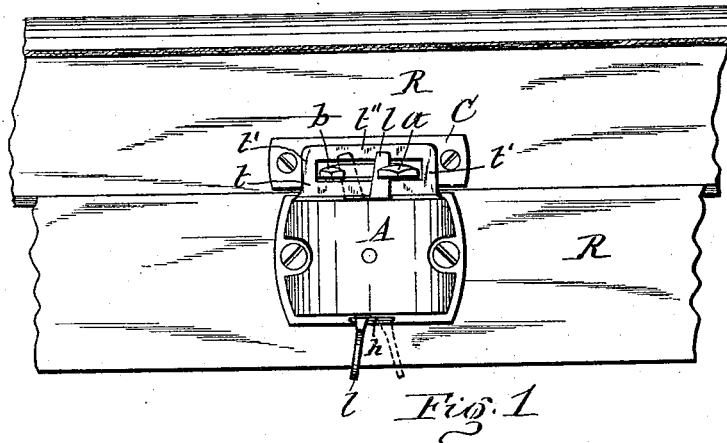
(No Model.)

G. B. SLOAN, Jr.

FASTENER FOR THE MEETING RAILS OF SASHES.

No. 454,628.

Patented June 23, 1891.



WITNESSES:

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UNITED STATES PATENT OFFICE.

GEORGE B. SLOAN, JR., OF OSWEGO, NEW YORK.

FASTENER FOR THE MEETING-RAILS OF SASHES.

SPECIFICATION forming part of Letters Patent No. 454,628, dated June 23, 1891.

Application filed March 23, 1891. Serial No. 385,991. (No model.)

To all whom it may concern:

Be it known that I, GEORGE B. SLOAN, JR., of Oswego, in the county of Oswego, in the State of New York, have invented new and useful Improvements in Sash-Locks, of which the following, taken in connection with the accompanying drawings, is a full, clear, and exact description.

This invention relates to the class of sash-locks which are applied to the meeting-rails of the upper and lower sashes of a window.

The object of the invention is to provide a sash-lock which shall be adapted to retain the latch in its unlocked position sufficiently to allow a person to use both hands in pushing up the lower sash, and thus facilitate said operation; and the object of the invention is also to provide the sash-lock with more secure means for automatically drawing the sashes together in the operation of closing the window and thereby preventing the sashes from rattling; and to that end the invention consists in the improved construction and combination of parts, as hereinafter described, and specifically set forth in the claims.

In the annexed drawings, Figure 1 is a top plan view of a sash-lock embodying my invention. Fig. 2 is a side view of the same. Fig. 3 is an inverted plan view of the case to which the latch is pivoted. Fig. 4 is a transverse section on line *x x*, Fig. 3; and Figs. 5 and 6 are end views of the sash-lock, showing the same in its locked and unlocked position.

Similar letters of reference indicate corresponding parts.

C denotes the catch-plate, which is attached to the top of the meeting-rail R of the upper sash and is formed with the rigid upward-projecting hook *a* and with the rigid vertical cam *b*, facing said hook, the shoulder or cam proper *b'* being somewhat higher from the base of the catch-plate than the locking-shoulder *a'* of the hook *a*, for the purpose hereinafter explained.

A represents a metallic case, which is secured to the top of the meeting-rail of the lower sash, and is formed with a tongue *t*, which laps over the catch-plate C, and is provided with a slot, through which both the aforesaid hook *a* and cam *b* protrude when the window is closed. The cross-bar *t''* of the tongue *t*, extending from side bar to

side bar *t' t'* thereof and uniting the same, serves to brace the tongue so as to better enable it to resist the strain it is subjected to in drawing the sashes together in the operations of closing the window, for which latter purpose I slope the backs of the hook *a* and cam *b* rearward, as shown in Figs. 1 and 2 of the drawings, and preferably also bevel the inner side of the cross-bar *t''* of the tongue *t*, which engages the sloping backs of the hook and tongue.

To the interior of the case A is pivoted the horizontally-swinging latch *l*, the ends of which extend through slots *c* and *h*, respectively, in opposite ends of the case. One end of said latch lies upon the tongue *t*, and is adapted to enter between the free ends of the hook *a* and cam *b* in the operation of closing the window. The opposite end of the latch is provided with a suitable handle by which to manipulate it.

The case A is provided with a suitable detent, adapted to engage the latch and retain the same in its unlocked position. For simplicity of construction I prefer to form said detent of a notch *c'* in the top edge of the slot *c*, which notch is adapted to receive and retain the locking end of the latch when thrown into its unlocked position, as represented in Fig. 6 of the drawings, thus enabling a person to employ both hands for pushing up the lower sash in the operation of opening the window. The shoulder *b'* of the cam *b* is in such a position that in raising the lower sash the latch *l* strikes the said cam-shoulder and is thereby thrown out of engagement with the stop or notch *c'* after the latch is carried above the locking-shoulder *a'* of the hook *a*. In this manner the latch is prevented from re-engaging the hook in raising the sash, and at the same time the latch is restored to its normal position for automatically interlocking with the hook *a* in the operation of closing the window.

In order to cause the latch to automatically spring into engagement with the hook *a*, I employ a suitable spring *s*, which is connected at one end to the interior of the case A and bears with its opposite end against the side of the latch, so as to force the latter toward the hook *a*, and to insure the engagement of the latch with the notch *c'* I place the spring

at such angle as to cause it to push the latch toward said notch, as shown in Fig. 4 of the drawings.

It will be observed that the lapping of the tongue *t* over the catch-plate C effectually prevents the opening of the window by the insertion of an instrument between the two meeting-rails R R from the exterior of the window.

10 What I claim as my invention is—

1. The combination of the catch-plate on the meeting-rail of the upper sash, provided with a rigid hook and a rigid cam facing said hook, and both projecting vertically from said
15 catch-plate, a horizontally-movable latch on the meeting-rail of the lower sash, extending between said hook and cam, and a detent on the latter sash adapted to engage said latch and retain the same in its unlocked position,
20 as set forth.

2. In combination with the catch-plate C,

provided with the hook *a*, the case A, provided with the slot *c* and notch *c'* in the edge of said slot, the latch *l*, pivoted to the case and extending through the aforesaid
25 slot, a spring arranged to force the latch toward the notch *c'* and the throw-off cam *b* on the catch-plate, substantially as and for the purpose set forth.

3. In combination with the catch-plate C,
30 provided with a hook *a* and cam *b*, formed with rearwardly-sloping backs, the case A, formed with the slotted tongue *t*, braced by the side bars *t' t'*, united by the cross-bar *t''*,
35 substantially as described and shown.

In testimony whereof I have hereunto signed my name.

GEO. B. SLOAN, JR. [L. S.]

Witnesses:

H. R. CARRIER,

F. E. SWEETLAND.