(No Model.)

C. J. ANDERSON.

FASTENER FOR MEETING RAILS OF SASHES.

No. 375,975. Patented Jan. 3, 1888.

Fig. 1

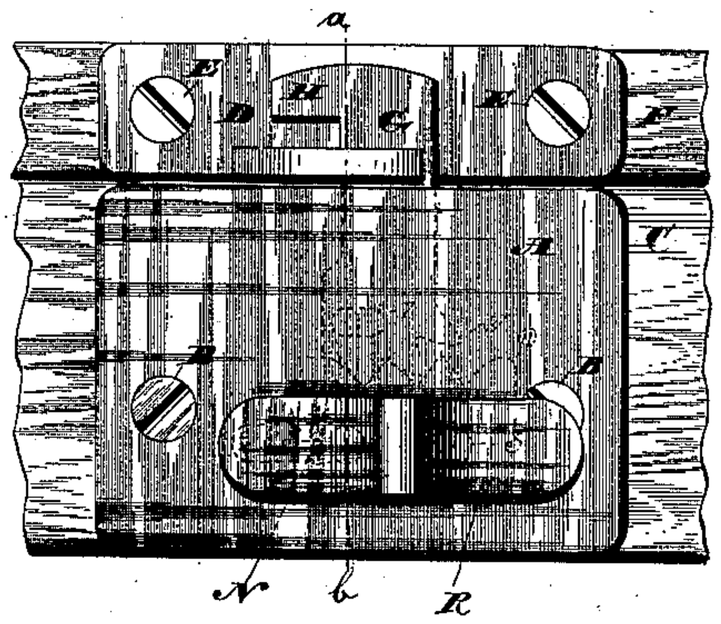


Fig. 2

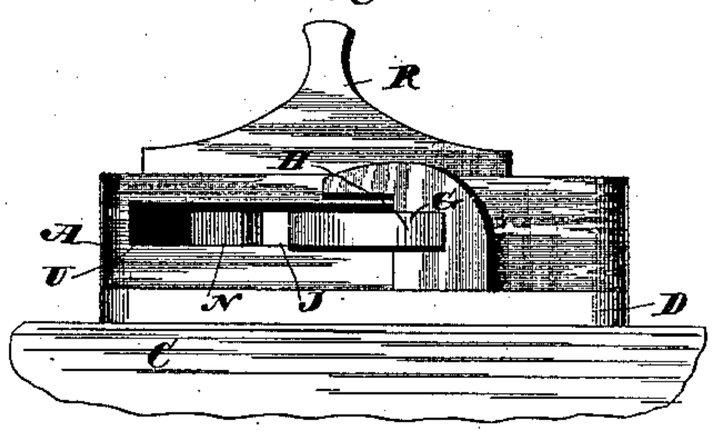


Fig. 3

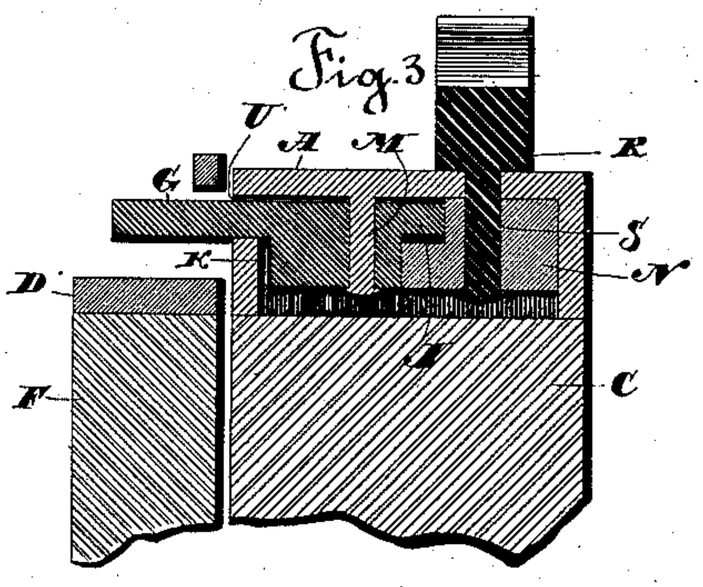


Fig. 4

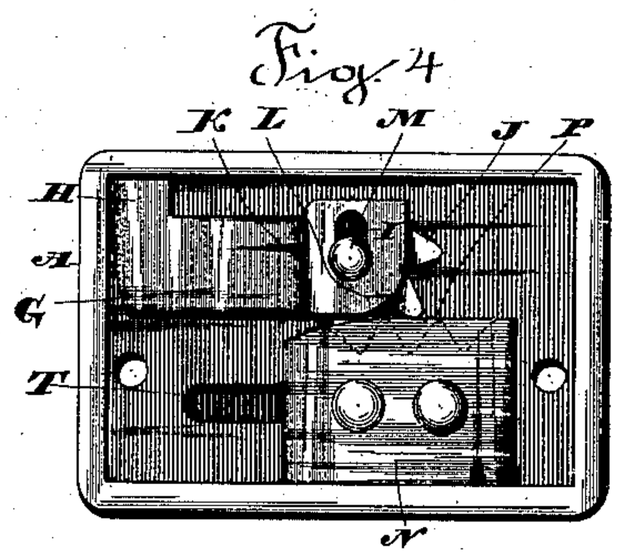


Fig. 5

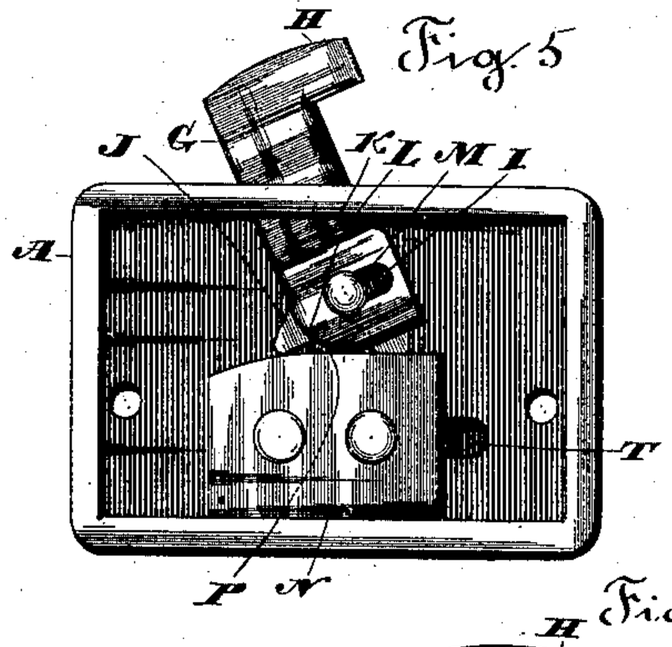


Fig. 6

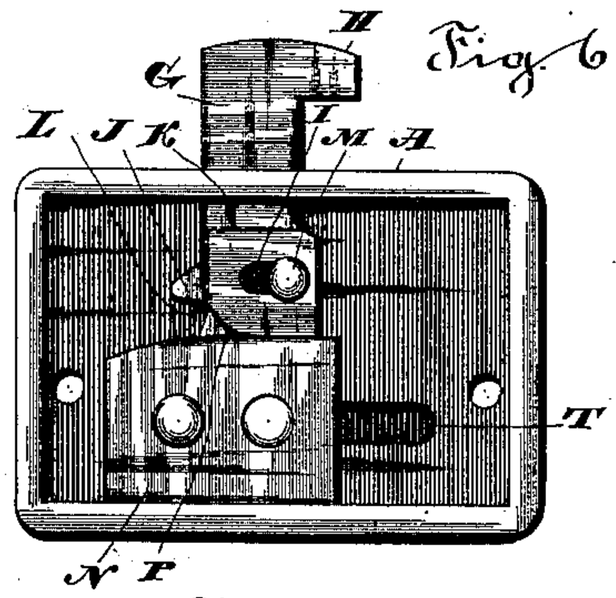


Fig. 7

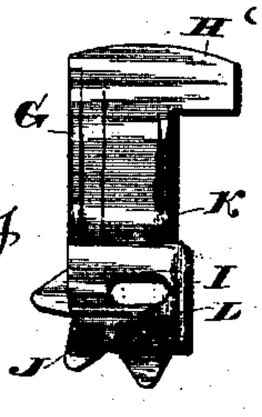
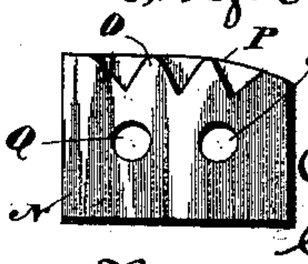


Fig. 8



Witnesses:
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By Geo. W. Seymour.
Atty

UNITED STATES PATENT OFFICE.

CHARLES J. ANDERSON, OF NEW HAVEN, CONNECTICUT.

FASTENER FOR MEETING-RAILS OF SASHES.

SPECIFICATION forming part of Letters Patent No. 375,975, dated January 3, 1888.

Application filed September 8, 1887. Serial No. 249,071. (No model.)

To all whom it may concern:

Be it known that I, CHARLES J. ANDERSON, residing at New Haven, in the county of New Haven and State of Connecticut, have invented certain new and useful Improvements in Sash-Locks; and I do declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawings, which form a part of this specification.

My invention relates to an improvement in sash-locks, the object being to produce a lock of simple and durable construction which shall be proof against being unlocked from the outside of the window by the insertion of any tool between the sashes.

With these ends in view my invention consists in a lock provided with a locking-lever having an elongated slot in its inner end, a stud passing through such slot, and means for throwing the lever and shifting its inner end in its relation to the said stud.

My invention further consists in certain details of construction and combinations of parts, as will be hereinafter described, and pointed out in the claims.

In the accompanying drawings, Figure 1 is a plan view of a lock embodying my invention, being shown in its locked adjustment. Fig. 2 is a view of the device in rear elevation. Fig. 3 is a sectional view on the line *a b* of Fig. 1. Fig. 4 is a reverse plan view of the box or keeper and the parts attached thereto, the locking-lever being represented as thrown back or retired. Fig. 5 is a similar view with the lever thrown forward and stopped just before its inner end is shifted. Fig. 6 is a similar view with the lever in its locked and shifted position. Fig. 7 is a detached reverse plan view of the lever, and Fig. 8 is a similar top plan view of the slide.

As herein shown the device has a box or keeper, A, secured by screws B B to the top of the lower sash, C, and a plate, D, secured by screws E E to the lower cross-rail of the upper sash, F, such parts being of any approved construction.

My invention consists in part in a flat locking-lever, G, provided at its outer end and upon its forward face with a locking-extension, H, and at its inner end with an elongated slot, I, extending transverse to the length of the lever, with a rack, J, and with a shoulder, K, located upon its lower face and having a curved bearing-face, L, the said face and the teeth of the rack being located in a segment of a circle drawn from the center of the rear end of the slot, which extends through the said shoulder. A stud, M, made integral with the box and depending from the inner face of the top thereof, passes through the slot I of the lever, its projecting lower end being headed down to secure the same in place. This stud constitutes the pivot upon which the lever is turned, and also assists in preventing the same from being thrown back when in its locked position. A slide, N, provided at its inner edge with a rack, O, receiving the teeth of the lever-rack, with a bearing-face, P, co-operating with the face L of the lever and with holes Q Q, is located within the box, in which it is secured by a button, R, sliding upon the upper face of the top thereof and provided with two posts, S S, extending through a slot, T, formed in the box and through the holes Q Q in the slide, the projecting lower ends of the said posts being headed down, as shown. The bearing-face P of the slide is cut away at its rear end, in order to give clearance to the lever and permit it to be swung freely in and out of the slot U, formed in the inner edge of the box.

Having set forth the construction of my improved device in detail, I will now proceed to explain its operation. Let it be assumed for convenience that the lever is retired within the box, as shown by Fig. 4 of the drawings, which shows the stud in the rear end of the elongated slot. Then by sliding the button the slide is moved back and the lever thrown out of the slot in the edge of the box, turning on its center of rotation, which is in the rear end of its slot, until it reaches the position in which it is shown by Fig. 5 of the drawings. Then, just before it finishes its forward movement, the slide shifts its inner end, and when that movement is completed, as shown by Fig. 6 of the drawings, the stud is in the forward end of the slot and eccentric to the center of rotation of the lever. The shifting of the lever, as described, also squares the bearing-faces L and

P, so that they prevent the lever from being forced back, being assisted in this by the stud, which also braces the lever against being moved back. In this adjustment of the parts it is impossible to move the lever back by pressure or blows applied to it; hence my device is proof against being unlocked by any tool inserted between the sashes.

To unlock the device, the button is shifted and the slide moved, the first effect being to shift the inner end of the lever back to the position in which it is shown by Fig. 5 of the drawings, and then, the stud being transferred to the rear end of the slot and the bearings being free, the lever is turned easily back to place in the box or keeper.

I would have it understood that I do not limit myself to the exact construction shown and described, but hold myself at liberty to make such changes and alterations as fairly fall within the spirit and scope of my invention.

Having fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. A sash-lock provided with a swinging locking-lever having an elongated transverse slot in its inner end, a stationary stud passing through such slot, and a slide engaging with the inner end of the lever and provided with a bearing-face for co-operation therewith, substantially as set forth.

2. A sash-lock provided with a swinging locking-lever having at its inner end an elongated slot and a shoulder having a bearing-face, a stud passing through such slot, and a slide engaging the lever and adapted to operate the same and to shift its inner end and provided with a bearing-face co-operating with that of the lever, substantially as set forth.

3. A sash-lock provided with a swinging locking-lever having at its inner end an elongated slot, a rack and a shoulder having a bearing-face, a stud passing through such slot, a slide having a rack and a bearing-face co-operating with that of the lever, and a button connected with the slide for operating the same, substantially as set forth.

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

CHARLES J. ANDERSON.

Witnesses:

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WILLIAM J. LUM.