(No Model.)

J. SCHADE & F. B. CASE.

FASTENER FOR THE MEETING RAILS OF SASHES.

No. 419,891. Patented Jan. 21, 1890.

Fig. 1.

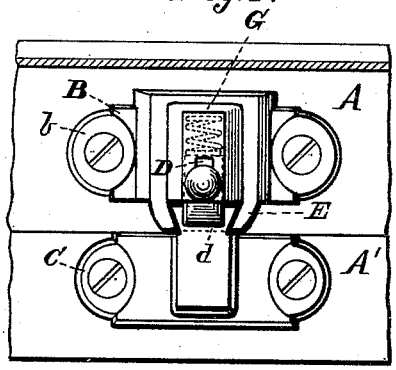


Fig. 2.

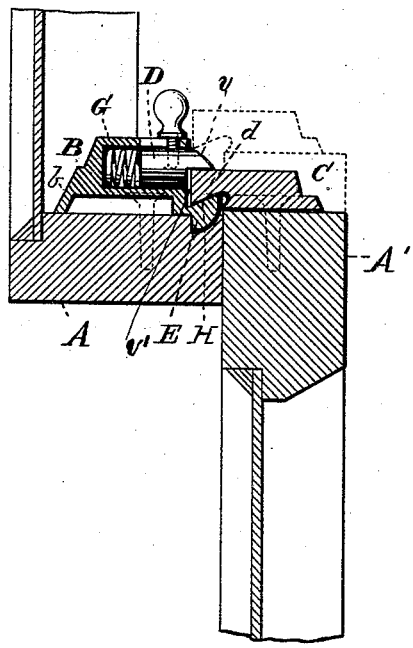


Fig. 3

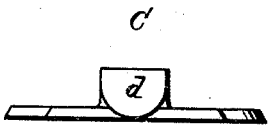
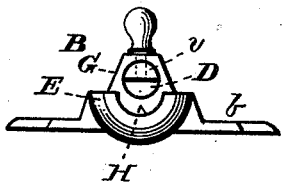


Fig. 4.



WITNESSES
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UNITED STATES PATENT OFFICE.

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FASTENER FOR THE MEETING-RAILS OF SASHES.

SPECIFICATION forming part of Letters Patent No. 419,891, dated January 21, 1890.

Application filed August 31, 1889. Serial No. 322,527. (No model.)

To all whom it may concern:

Be it known that we, JOHN SCHADE and FRANK BELL CASE, citizens of the United States, and residents of Brooklyn, in the county of Kings and State of New York, have invented certain new and useful Improvements in Self-Locking Sash-Fasteners; and we do 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 appertains to make and use the same, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification.

Figure 1 of the drawings is a representation of this invention, and is a top view. Fig. 2 is a vertical section, and Figs. 3 and 4 are details.

This invention relates to locks or fastenings for the meeting-rails of window-sashes; and it consists in the novel construction and combination of parts, as hereinafter described, and pointed out in the claims.

The object of the invention is to provide a fastening for the meeting-rails of sashes which will baffle the efforts at lateral or vertical displacement of the same when made from the outside of the window, and at the same time to provide for the proper lateral and longitudinal adjustment of the upper surfaces of the said meeting-rails and automatically lock the same together when the sashes are operated to close the window.

In the accompanying drawings, the letters A A′ indicate the meeting-rails of the upper and lower sashes of a window, having secured thereto, respectively, the latch-plate B and the catch-plate C. The lock or latch-plate consists of a casting comprising a suitable horizontal base *b*, perforated for attachment to the rail A, and a central prominence G, recessed to receive a horizontal transverse spring-actuated latch D, having a beveled end *v*, which projects from the edge of the bearing, the remaining portion of the outer end of the latch below this bevel end portion normally standing about flush with the outer end of said bearing, thus forming recess or notch *v*′. The forward part of the latch-plate B is provided with a guard-swell E, projecting from the edge below the overhanging end of the latch, having an internally beveled or dovetailed concave recess H to receive the correspondingly-shaped catch projection *d* of the catch-plate C. The catch-plate C consists of a base portion having apertures for securing-screws and projecting from its middle portion horizontally the convex dovetailed catch *d*. The shape of the catch *d* is that of a section of a truncated cone, and the recess H, which therewith completes the lock, is of a corresponding concave form. The mutual adaptation of these meeting parts to each other tends to draw the sashes to a proper relative position in the window-frame.

When the parts are in position and secured to the sashes, the catch-plate on the lower and the latch-plate on the upper sash, there will be no obstruction to the ready movement of the sashes, raising or lowering the same, except when they are completely closed. In such closed position the catch projection having passed the beveled end *v* of the latch descends into the concave recess of the latch-plate, and the latch of said plate, actuated by its spring, shoots over the catch projection to lock it down. The concave projection of the latch-plate, which receives the catch projection of the lower sash-plate, serves as a complete guard, concealing the catch projection, and, as it spans the crevice between the meeting-rails of the sashes, preventing access to the locking-latch through said crevice; also, it will be observed that the dovetail engagement of the catch projection and its seat in the latch-plate secures the meeting-rails together, so that they cannot be pried apart without breaking the fastenings.

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

1. The sash-fastener consisting of the spring-pressed latch beveled at its outer or projecting end, the case or closure containing said latch, and the catch-plate flared at one end and engaging a corresponding recess in said case or closure, said recess underlying the projecting end of said latch, substantially as set forth.

2. The sash-fastener consisting of the spring-pressed latch having an outer projecting end

beveled on its upper surface and a notch or recess below said end, the catch-plate having the catch of a section of a truncated cone in shape, and the case or closure containing said latch and having a recess corresponding with and engaged by said catch, said recess underlying the said projecting end of the latch, substantially as described.

In testimony whereof we affix our signatures in the presence of two witnesses.

JOHN SCHADE.
FRANK BELL CASE.

Witnesses:
GEORGE C. DEMERITT,
EGBERT S. MOTT.