G. H. KERVIN.

Sash-Fastener.

No. 211,334. Patented Jan. 14, 1879.

Fig. 3.

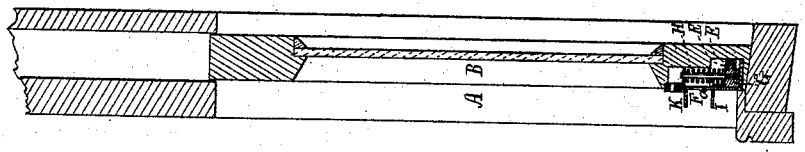


Fig. 2.

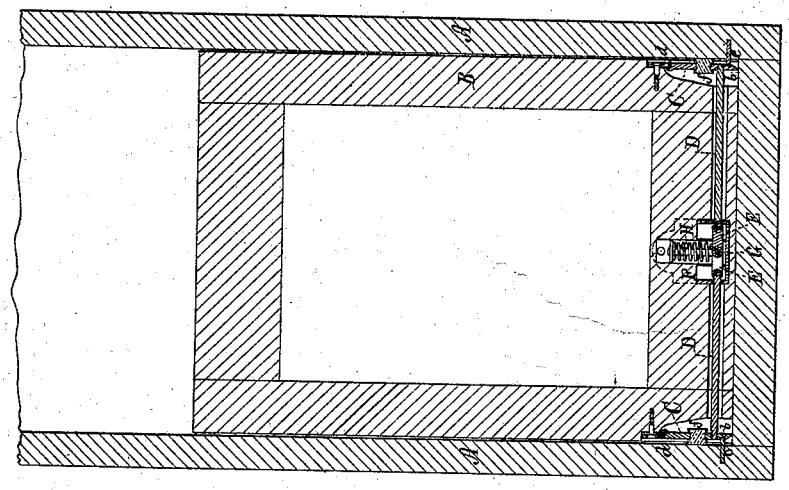
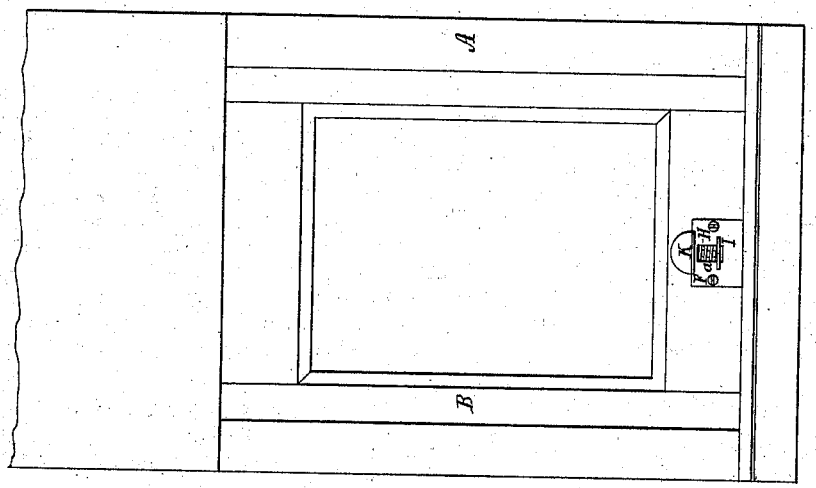


Fig. 1.



Witnesses.

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UNITED STATES PATENT OFFICE.

GEORGE H. KERVIN, OF BOSTON, MASSACHUSETTS.

IMPROVEMENT IN SASH-FASTENERS.

Specification forming part of Letters Patent No. **211,334**, dated January 14, 1879; application filed September 4, 1878.

To all whom it may concern:

Be it known that I, GEORGE H. KERVIN, of Boston, of the county of Suffolk and State of Massachusetts, have invented a new and useful Improvement in Sash Supporters and Fasteners; and do hereby declare the same to be described in the following specification, and represented in the accompanying drawings, of which—

Figure 1 is a front elevation, and Figs. 2 and 3 are vertical sections, of a window sash and frame provided with my invention, which not only serves to support the sash at any altitude within the limits of its motion in the window-frame, but to lock it when it is at its lowest position.

The sash supporter and fastener hereinafter described is composed of a slide, spring, toggles, rods, notched friction-bearers, and two locking-studs, all being arranged and combined in manner and applied to a case and the sash and window-frame as set forth, the invention being defined in the claim hereinafter made.

In the drawings, A denotes the window-frame, and B the sash, all of which may be supposed to be such as are common to railway passenger-cars.

Fixed or pivoted to the opposite edges of the sash are two friction-bearers, C C, from whose lower parts rods D D extend to and are jointed to two toggles, E E, arranged in a case, F, fixed to the lower bar of the sash at the middle thereof. The said toggles are pivoted to a slide, G, arranged in the case and applied thereto so as to be capable of being moved vertically therein, there being over the slide and within the case a spring, H, to press the slide downward.

A flat knob or projection, I, extends from the slide through a slot, *a*, in the case, and over this projection there is another one, K, that extends from the sash or from the case. By applying the index-finger of one hand to the upper knob, K, and the thumb of such hand to the lower knob, so as to pinch them, or force the lower toward the upper, the former may be raised, in which case the friction-bearers will be drawn away from the surfaces against which they may be forced by the power of the spring acting through the slide, the toggles, and the rod.

In each bearer C there is a notch, *b*, to receive one of two locking-studs, *c c*, projecting from the vertical walls *d d* of the grooves in which the sash is placed. When the sash is in its lowest position the studs *c c* are in the notches *b b*, and with them lock the sash or prevent it from being raised by a person outside of the window.

On raising the sash within the window-frame to any height above the sill thereof, which can be done by pressing the knob I upward, such sash will be supported or retained in position by the friction-bearers, especially after the hand may be withdrawn from the knob.

The outer surfaces of the bearers I usually re-enforce with cushions *f f*, of india-rubber, in order that such bearers may operate with a sufficient amount of friction.

I claim as my invention, as follows:

The sash supporter and fastener, substantially as described, composed of the slide G, spring H, toggles E E, rods D D, notched friction-bearers C C, and the locking-studs *c c*, arranged and applied to each other and to a sash and window-frame, essentially as set forth.

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Witnesses:
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