Aug. 9, 1932. D. JOKUBAITIS 1,870,332

VENTILATING WINDOW LOCK

Filed July 23, 1931

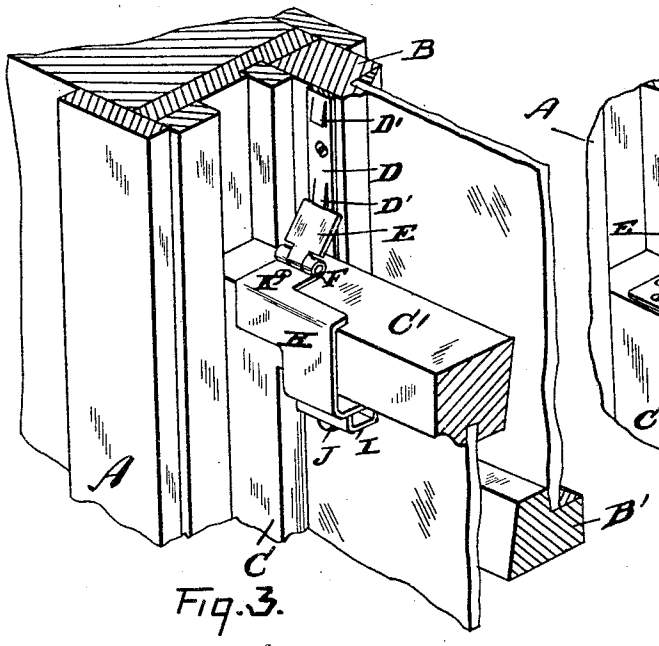


Fig. 3.

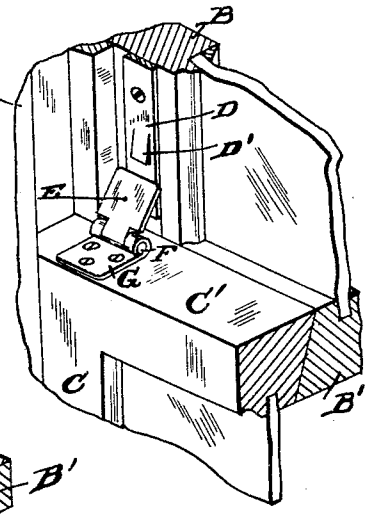


Fig. 1.

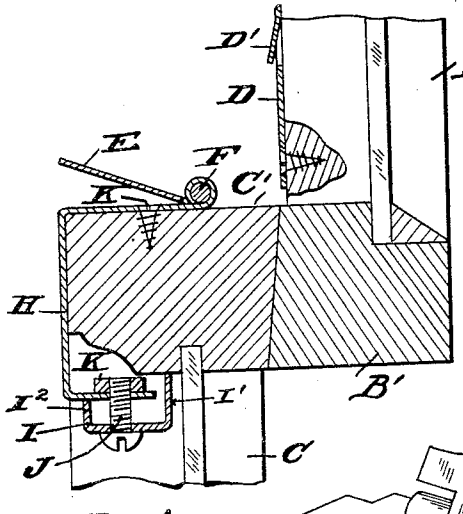


Fig. 4.

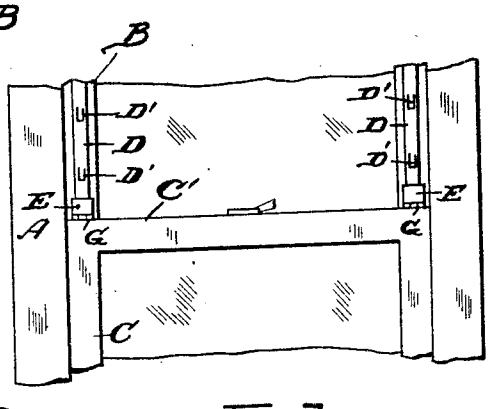


Fig. 2.

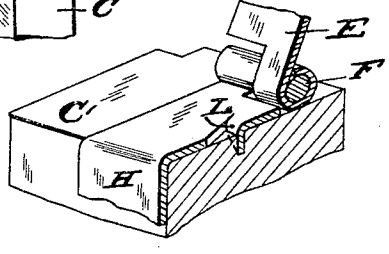


Fig. 5.

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Patented Aug. 9, 1932

1,870,332

UNITED STATES PATENT OFFICE

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VENTILATING WINDOW LOCK

Application filed July 23, 1931. Serial No. 552,621.

My invention relates to a ventilating lock for windows shown in the accompanying drawing and more particularly described in the following specification and claims.

The primary object of the present invention is to provide a simple, inexpensive device which may be readily attached to the sash frames of a window to limit the degree to which the upper and lower sash may be respectively raised or lowered for ventilation purposes, and when determined thereby, the sash cannot be opened to any greater extent by anyone outside the building. The construction of the ventilating lock however is such that the sash frames may be readily released from the control of said device, inside the building, to permit raising or lowering the window frames to any desired range within the limits of the window casing.

With the foregoing and other objects in view which will appear as the description proceeds, the invention further resides in the combination and arrangement of parts and in the details of construction hereinafter described and claimed, it being understood that changes may be made in the precise embodiment of the invention herein disclosed without departing from the spirit of the same.

In the drawing accompanying this specification:

Figure 1 is a fragmentary perspective view of an upper and lower sash frame with the locking device attached thereto,—the sash frames being in closed relation.

Figure 2 is a fragmentary front elevation of a window showing the sash frames fitted with a locking device at each side of the window.

Figure 3 is a fragmentary perspective view of a modification of the locking device.

Figure 4 is a cross-sectional view through the abutting rails of an upper and lower sash frame showing the locking device installed, but released to permit the unrestricted adjustment of one sash in relation to the other.

Figure 5 is a fragmentary perspective view of a modification showing a variation in the means employed for securing the device to the upper horizontal rail of the lower sash.

Referring now to the letters of reference placed upon the drawings:

A denotes a window casing, B indicates the upper sash frame and B^1 the lower horizontal member of the upper sash frame. C denotes the lower sash frame and C^1 the upper horizontal member of the lower sash frame.

D indicates a strip of sheet metal screwed to the side rails of the upper sash frame. The strips are constructed with a plurality of ratchet-faced steps D^1 spaced apart and struck up from the body of the metal, thereby providing a plurality of aligned abutments to receive the thrust of a swinging latch E, pivoted upon a pintle F supported in bearings formed in a leaf G, screwed to the horizontal rail C^1 of the lower sash.

It will be seen that the sash frames may be adjusted in relation to each other to provide for ventilation above the upper sash and below the lower sash. Upon inclining the swinging latch E of the lower sash so it may rest upon the strip D attached to the upper sash, any attempt to raise the lower sash from the outside will result in the swinging latch E contacting with the next or adjacent abutment D^1 of the strip D attached to the side rails of the upper sash, thereby limiting the further opening of the window.

If on the other hand an attempt is made to lower the upper sash, the abutment D^1 directly above the swinging latch E will engage the swinging latch and thus arrest the movement of the upper sash downwardly upon the lower sash reaching the limit of its downward movement through contact with the window casing.

The respective sashes may be adjusted in relation to the window opening by manually tilting the swinging latch away from the ratchet bar, then raising or lowering the sash in relation to each other to the extent desired for ventilation, the latches are then tilted toward the ratchet bars, whereupon further opening of the windows from the outside is restricted.

In the modification shown in Figures 3, 4 and 5, the swinging latch E is pivoted to a U-shaped plate H overlapping the side of the upper rail of the lower sash.

A channel-like member I is formed with one of its side walls I^1 of relatively greater depth that it may bear upon the underside of the sash rail (see Figure 4) while the other wall I^2 rests upon the inwardly projected flange of the U-shaped plate H.

J is a bolt extending through the member I and the flange of the U-shaped plate, fitted with a nut K, and upon adjusting the bolt in the nut, the edge of the wall I^1 of the member I, is caused to impinge upon the upper wooden rail of the lower sash, thereby securing the device to the sash.

To further secure the device against accidental shifting, a screw K may extend through the plate into the sash, as shown in Figure 4;—or the plate H may be punched to form a securing brad L, shown in the modification in Figure 5.

Having thus described my invention, what I claim is:

1. In a device of the character described, a U-shaped element adapted to embrace the horizontal rail of a slidable sash frame; a swinging latch member pivoted to the U-shaped element adapted to be tilted into the path of an adjacent slidable sash frame; a relatively short channel member having one of its walls of greater depth than the other, the walls of said channel member bearing respectively upon the horizontal rail of the first named sash frame and one of the flanges of the U-shaped element; and a bolt fitted with a nut extending through said channel member and one of the flanges of the U-shaped element, whereby upon adjusting the bolt in the nut, the U-shaped element is forced to grip the rail of the sash frame.

2. In a device of the character described, a U-shaped element adapted to embrace the horizontal rail of a slidable sash frame; a swinging latch member pivoted to the U-shaped element, adapted to be tilted into the path of a plurality of abutments carried by the frame of an adjacent cooperating slidable sash frame; a relatively short channel member having one of its walls of greater depth than the other, the walls of said channel member bearing respectively upon the horizontal rail of the first named sash and one of the flanges of the U-shaped element; a bolt fitted with a nut extending through said channel member and one of the flanges of the U-shaped element, whereby upon adjusting the bolt in the nut, the U-shaped element is forced to grip the rail of the sash frame; and suitable fastening means extending from the upper flange of the U-shaped element into the sash rail to secure the device against accidental release.

3. A device of the character described, comprising a U-shaped element adapted to embrace the horizontal rail of a lower vertically slidable sash frame; a swinging latch member pivoted to the U-shaped element adopted to be tilted into the path of spaced abutments carried by an upper vertically slidable sash frame; a relatively short channel member having one of its walls of greater depth than the other, the walls of said channel member bearing respectively upon the horizontal rail of the lower sash frame and the lower flange of the U-shaped element; a bolt fitted with a nut extending through said channel member and the lower flange of the U-shaped element, whereby upon adjusting the bolt in the nut, the U-shaped element is forced to grip said horizontal rail of the sash frame; and a fastening screw extending from the upper flange of the U-shaped element into the horizontal sash rail to secure the device against accidental release.

In testimony whereof, I sign this specification.

DAMIAN JOKUBAITIS.