July 20, 1926. 1,593,461

B. W. MOTT

WINDOW VENTILATOR

Filed March 31, 1926

Fig. 1.

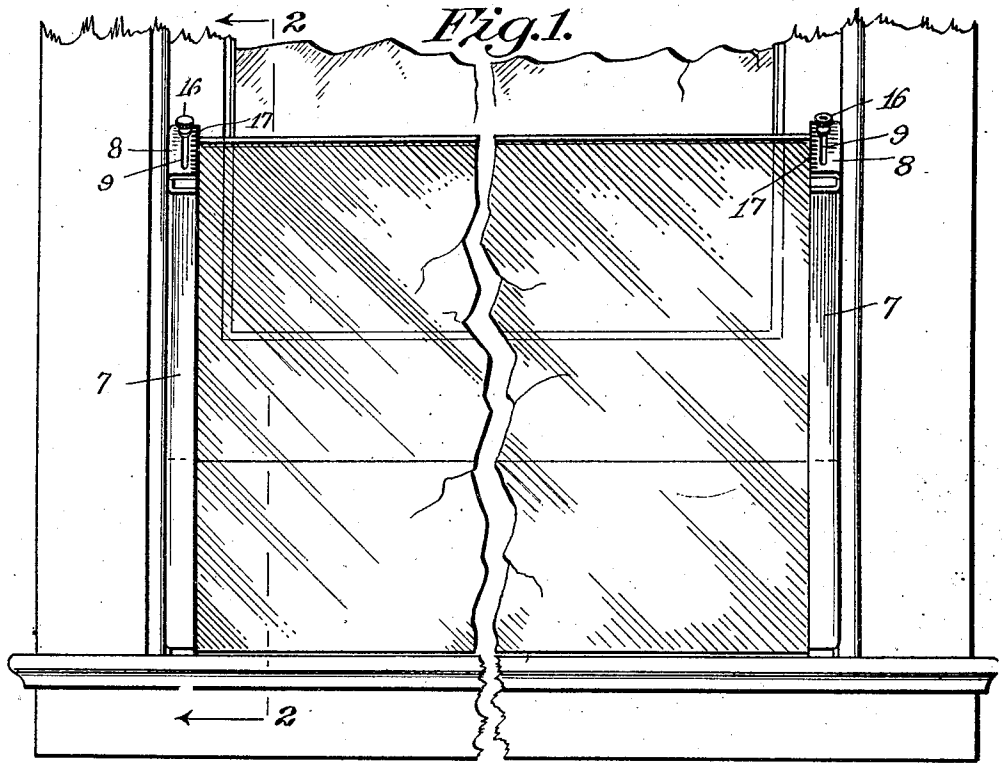


Fig. 2.

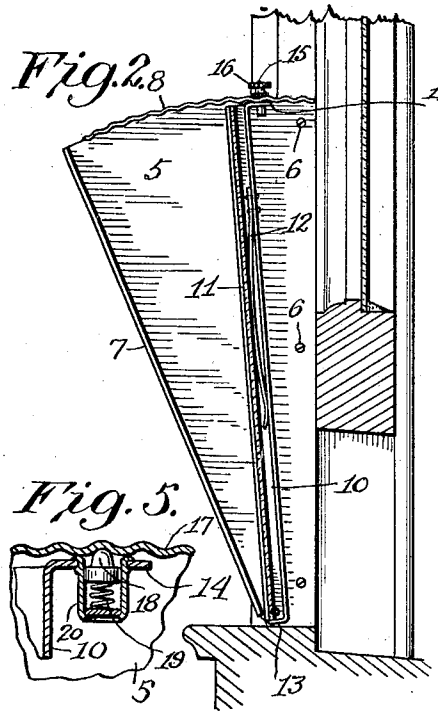


Fig. 3.

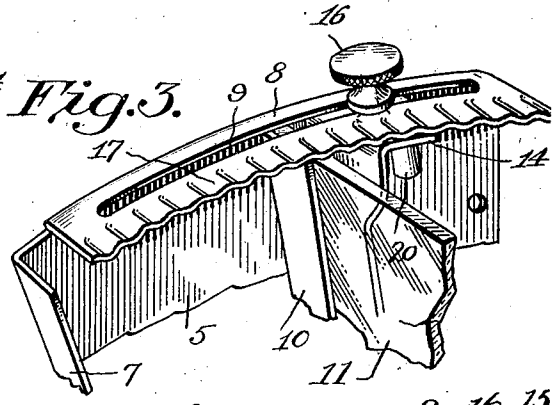


Fig. 5.

Fig. 4.

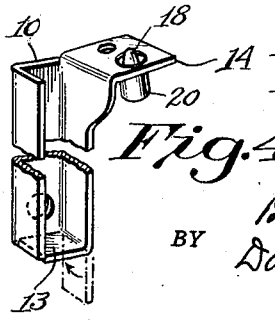
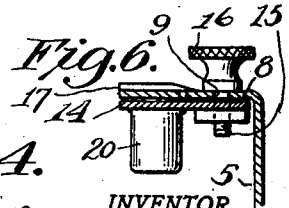


Fig. 6.



INVENTOR

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UNITED STATES PATENT OFFICE.

BURKE W. MOTT, DECEASED, LATE OF NORFOLK, VIRGINIA; BY ETHEL P. MOTT, EXECUTRIX, OF NORFOLK, VIRGINIA.

WINDOW VENTILATOR.

Application filed March 31, 1926. Serial No. 98,839.

This invention has relation to that type of ventilator adapted to be fastened to the window frame, on the inside, at the bottom of the lower sash, there being provided a pane of glass which is so mounted that it may be tilted toward or from the raised window sash to decrease or increase the amount of ventilation, as more fully hereinafter set forth.

In the drawing—

Fig. 1 is a front elevation of a window equipped with my device;

Fig. 2 is a vertical sectional view on the line 2—2 of Fig. 1;

Figs. 3 and 4 are detail perspective views.

Figs. 5 and 6 are detail sectional views of the locking devices.

In the drawing annexed, 5 designates a pair of segmental plates whose front edges are adapted to be fastened, by means of screws 6, to the inner side of the window frame, adjacent the sash. The lower, smaller ends of the segments rest upon the window-sill. The inner edges of the plates incline upwardly and inwardly and are each provided with a flange 7. The top edge of each plate is curved and is provided with a curved flange 8 which is provided with a longitudinal slot 9.

Pivotally secured to the inner face of each of the plates 5, at a point adjacent to the window-sill, is a channel-iron 10 which terminates immediately under the flange 8 and is capable of being swung back and forth from the window sash to the stop-flanges 7. Mounted in these two channel-irons are the vertical edges of the glass-shield 11, extending entirely across the window. A flat bow-spring 12 in each of the channels serves to hold the glass plate in position and enables plates of different thicknesses to be inserted in the channels.

At the bottom of the channel-irons, one of the flanges is bent inwardly and upwardly to form a stop or rest 13 for the lower edge of the glass plate, thus preventing the plate resting on the window-sill. The upper extremity of the same flange is bent laterally at 14 and curved to fit against the under, curved face of the arcuate flange 8. This laterally-projecting ear 14 carries a thumb-screw 15 which extends up through the slot 9 in the flange and is provided with a thumb-nut 16, whereby the plate-holding channel-irons may be adjusted toward and from the window sash and locked in their adjusted positions. An advantage of this construction is that the adjusting nuts 16 are located at the most convenient place for manipulation; and a further advantage is that it removes the adjusting devices from the plates 5 and thus permits those plates to lie flat against the sides of the window frame or the beads thereon.

In addition to the slot-and-set-screw locking means, described above, or in lieu thereof, I may employ an additional locking means for the shield-holding channel-irons. I have shown the flange 8 corrugated throughout its length, the corrugations 17 extending transversely of the flange and stopping short of the slot. The lip 14 carries a spring-actuated detent 18 which normally engages the under side of the corrugations 17, so as to snap into the depressions of the corrugations as the frame is forcibly moved back and forth. Each detent is actuated by an expansible coil-spring 19 and the detent is slidably mounted in a barrel 20 depending from the lip 14. The spring 19 will be sufficiently strong to hold the shield-frame against movement except when it is grasped in the hand and forcibly shifted inwardly or outwardly.

What I claim as new is:—

1. In a window ventilator of the type set forth, a pair of plates adapted to be secured to the window frame and each provided with an inwardly-extending curved flange at its top edge, each of said flanges being longitudinally slotted, a pair of channel-irons pivoted to said plate at the lower ends thereof and having their upper ends terminating under the aforesaid flanges, one of the flanges of each of said channel-irons being bent laterally to fit up against the under face of the adjacent flange, a plate shield in the channel-irons, and a clamp-screw for each flange working in the slot thereof.

2. A window ventilator of the type set forth, comprising a pair of plates adapted for adjustment to the window-frame, a channel-iron pivotally attached to each of said plates, a plate-shield mounted in this channel-irons, the upper end of each of said

plates being provided with an arcuate flange, and means cooperating between each of said flanges and the adjacent channel-iron to lock the channel-irons in adjusted position, said means embodying a set-screw carried by the channel-irons, a slot in the arcuate flange, and a spring-actuated detent carried by the channel-irons, said flange being corrugated in the path of said detent.

In testimony whereof, I hereunto affix my signature this 17th day of March, 1926.

BURKE W. MOTT,
By ETHEL P. MOTT,
Executrix of Burke W. Mott, deceased.