June 24, 1930. W. STROM 1,765,745

WINDOW VENTILATOR

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Fig. 1.

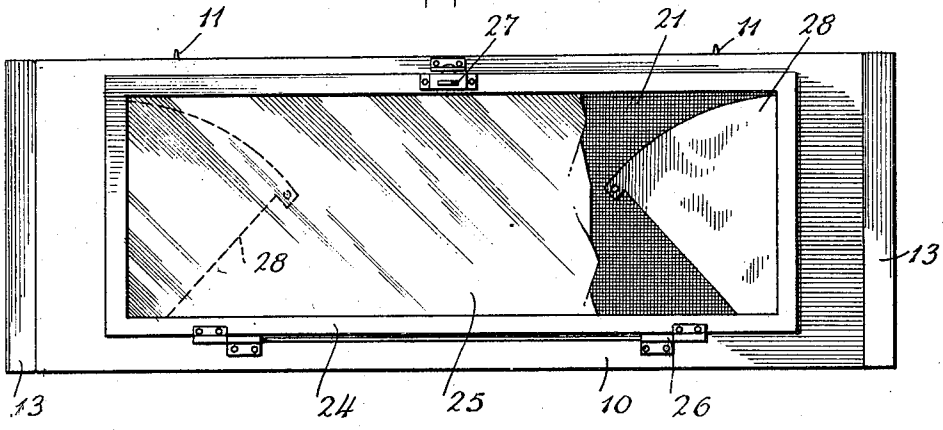


Fig. 2.

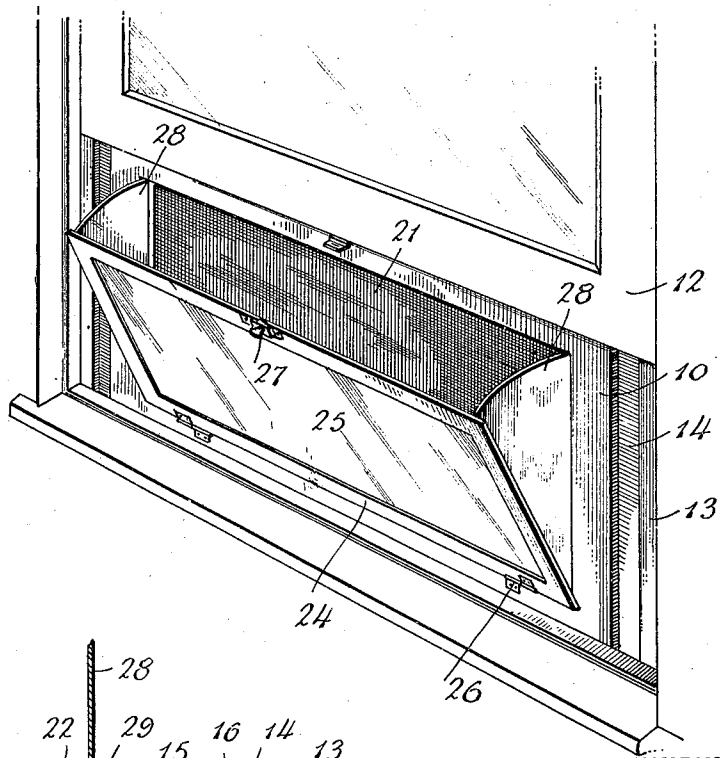
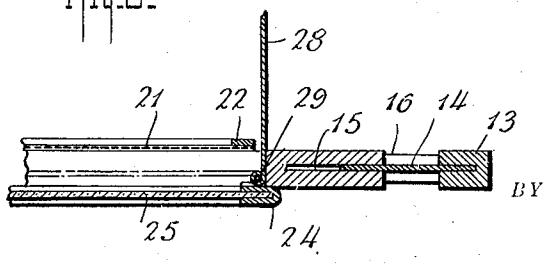


Fig. 3.



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Fig. 4.

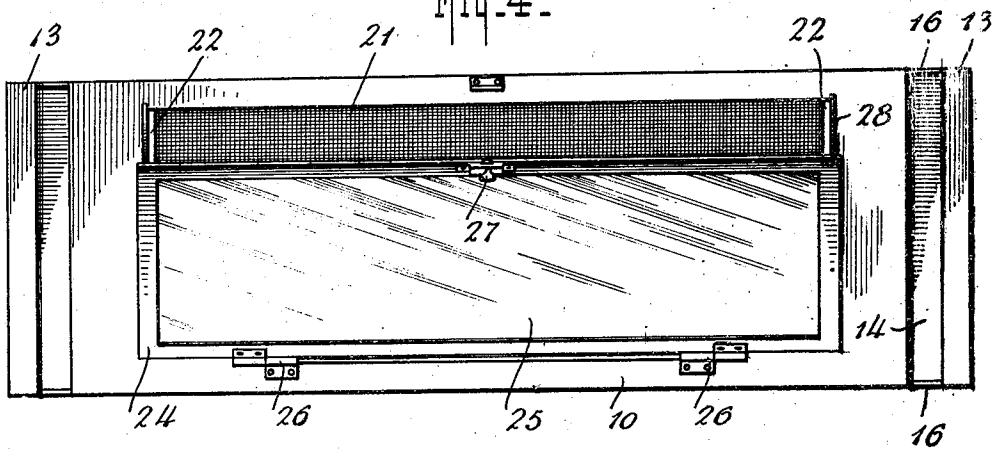


Fig. 5.

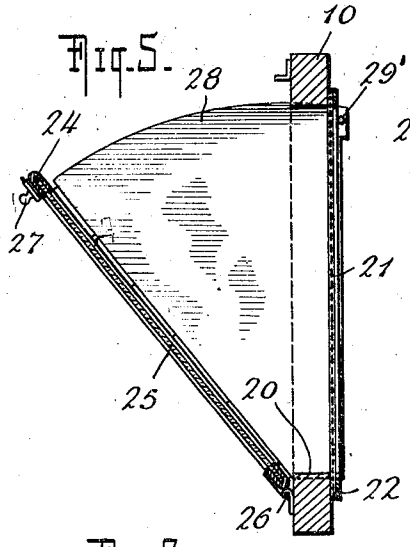


Fig. 6.

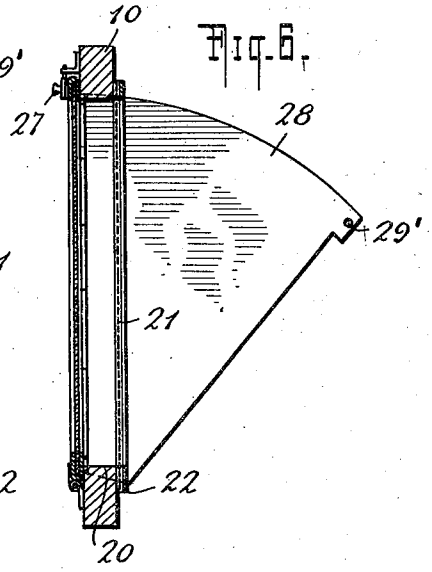
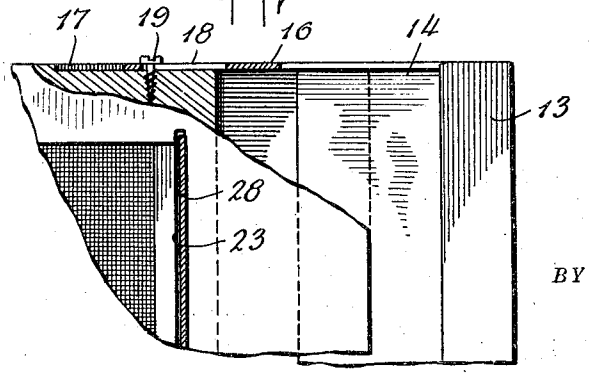


Fig. 7.



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Patented June 24, 1930 1,765,745

UNITED STATES PATENT OFFICE

WILLIAM STROM, OF BRONX, NEW YORK

WINDOW VENTILATOR

Application filed April 12, 1928. Serial No. 269,419.

This invention relates to improvements in window ventilators, and has for one of its objects to provide an improved ventilator of simple, practical and economical construction wherein the closure member which is pivoted to the frame of the ventilator may be adjusted to various open positions relative to said frame and frictionally held in such positions by end sections extending through the frame.

Another object is to so connect the end sections of the closure member thereto that said sections can be moved to a folded or inoperative position between the closure member and supporting frame to better enable the ventilator to be transported or stored when not in use.

A further object is to provide the supporting or main frame of the ventilator with longitudinally adjustable end portions which will enable the frame to be fitted into window frames of various widths.

The above and other objects will appear more clearly from the following detailed description, when taken in connection with the accompanying drawings, which illustrate a preferred embodiment of the inventive idea.

In the drawings—

Figure 1 is a front elevation of the ventilator with the parts in folded or inoperative position;

Figure 2 is a perspective view of the ventilator in operative position with the closure member opened;

Figure 3 is an enlarged longitudinal section through one end of the ventilator;

Figure 4 is a front elevation with the closure member opened;

Figures 5 and 6 are vertical sections showing, respectively, the closure member in open and closed positions; and

Figure 7 is an enlarged fragmentary front elevation, partly broken away and shown in section.

Referring more particularly to the accompanying drawings, the numeral 10 indicates the main or supporting frame for the ventilator and is adapted to be positioned vertically in a window frame, as shown in Figure 2, the upper edge of the frame 10 being provided with slightly projecting nails 11 or other pointed elements adapted to be embedded in the lower edge of the window sash 12 when the latter is closed down upon the frame 10 so as to prevent rattling of the ventilator when in position.

For the purpose of varying the width of the frame 10 so as to fit into window frames of different sizes, each end of the frame 10 is provided with a longitudinally adjustable end member 13. This end member is slidably connected with the main frame by means of a central plate 14 fitting into a slot 15 formed in the end of the main frame 10 and along the upper and lower edges of the end member 13 the same is further provided with the strips 16 engageable in grooves 17 in the upper and lower edges of said frame 10. The inner ends of the strips 16 are provided with longitudinal slots 18 for receiving studs 19 in the form of screws projecting from the grooves 17 of the main frame whereby the end member will be guided in its outward movement by contact of the studs with the inner ends of the slots 18.

The main frame 10 is provided with a central opening 20 adapted to be closed on the outer side of the frame by a screen 21, the ends of the frame 22 of which terminate short of the ends of the opening 20 to provide the vertical slots 23 for a purpose which will presently appear.

The ventilator further comprises a closure member 24 in the form of a frame and provided with a transparent glass 25. The closure member is hinged at 26 along the lower edge of the opening 20 in the frame 10 so as to be movable toward and away from said frame to vary the size of the opening through which ventilation may be secured, the closure member being held in its closed position by means of a latch 27.

Means are provided which cooperate with the slots 23 to frictionally maintain the closure member 24 in various open positions. This means is preferably in the form of substantially segmental end sections 28 each pivotally connected at 29 along one edge to

one end of the closure member 24 and movable inwardly relative to the closure member to the position shown in Figure 1 where it is interposed between said member and the screen 21 when the member 24 is in closed position. When the sections 28 are in this position the same will not project outwardly beyond the frame or closure member and the ventilator may be effectively stored or packed for shipment.

When adjusting the end sections 28 to their operative positions the same are swung at substantially right angles to the closure member and the free ends thereof are then inserted into the slots 23 so as to frictionally engage at least one edge of each slot whereby when the closure member is swung to any open position the same will be maintained in such position. In order to limit the amount of movement of the closure member to open position and to prevent the end sections 28 from being disengaged from the slots 23, the upper extremity of the free edge of each section 28 is provided with a pin 29′ adapted to contact with the adjacent upper end of the screen frame 22, as shown in Figure 5, said pins being detachable from the end sections to enable them to be entirely withdrawn from the slots 23 when it is desired to fold said sections to the position shown in Figure 1.

What is claimed is:

1. A ventilator including a main frame having an opening therein, a closure member for said opening pivoted to said frame, and end sections hinged to said closure member and engageable with portions of said main frame to frictionally maintain said closure member in various positions of adjustment, said end sections being capable of withdrawal from engagement with said frame and thereafter moved to a plane substantially parallel to said frame and closure member and in interposed relation thereto.

2. A ventilator including a main frame having an opening therein, a closure member for said opening pivoted to said frame, and end sections pivoted to said closure member and projecting through said frame, said end sections being capable of withdrawal from their projecting positions and thereafter movable about their pivots to positions between said frame and closure member.

3. A ventilator including a main frame having an opening therein, a closure member for said opening pivoted to said frame, a screen in said opening, and end sections pivoted to said closure member and projecting through said frame, said end sections being capable of withdrawal from their projecting positions and then swung to positions at substantially right angles so as to be interposed between said closure member and screen when the former is in closed position.

4. A ventilator including a main frame having an opening therein, a closure member for said opening pivoted to said frame, a screen frame mounted in the opening in the main frame and having its ends spaced from said frame to form vertical slots, and end sections pivoted to said closure member and frictionally engageable in said slots, said end sections being capable of withdrawal from said slots and then moved about their pivots into parallel relation with said closure member.

In testimony whereof I have affixed my signature.

WILLIAM STROM.