May 19, 1936. C. A. KAUFFMAN ET AL 2,040,853

WINDOW SCREEN SHADE AND VENTILATOR

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Fig. 1.

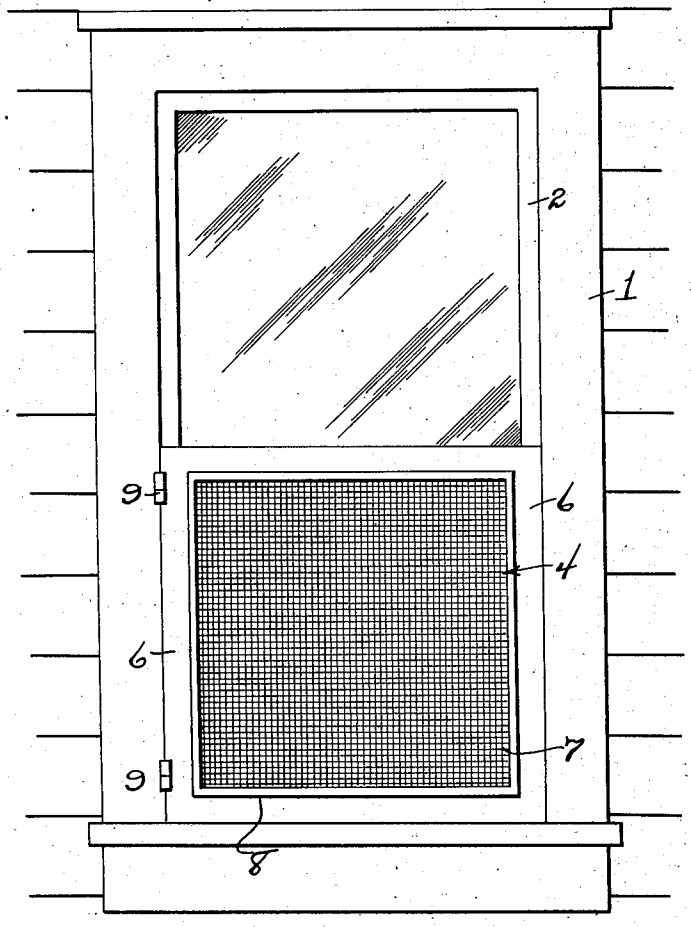


Fig. 2.

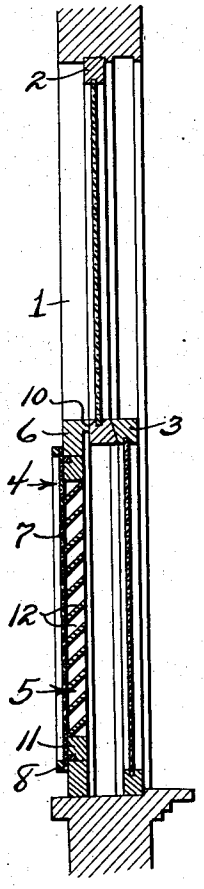
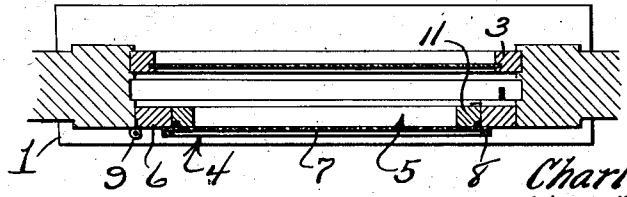


Fig. 3.



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Fig. 4.

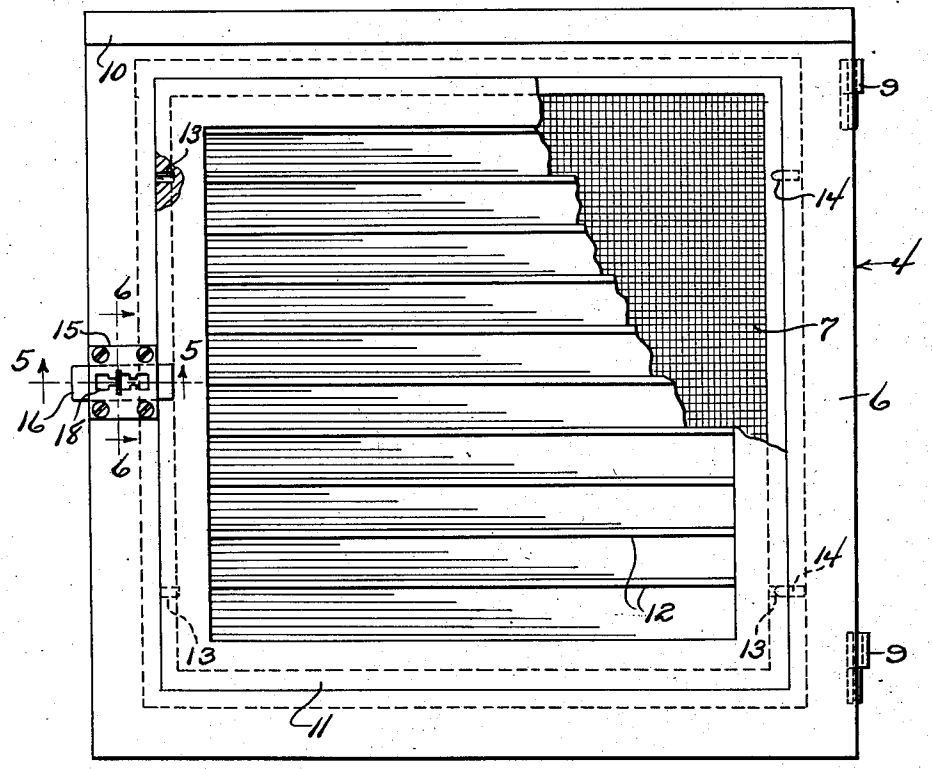


Fig. 5.

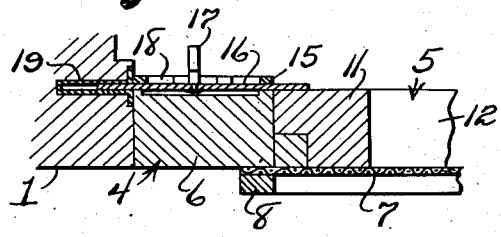
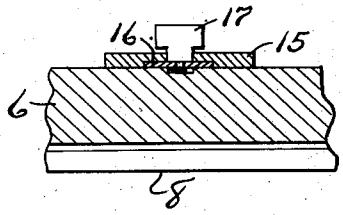


Fig. 6.



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WINDOW SCREEN SHADE AND VENTILATOR

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Application April 17, 1935, Serial No. 16,906

1 Claim. (Cl. 98—121)

This invention relates to a combined screen and ventilator which may be adapted to windows, doors and the like and has for the primary object the provision of a device of this character which will bar the entrance of insects and will provide a shade which will permit vision from the inside of a building and prevent vision from the outside of a building with ventilation wherein the flow of air currents may be directed either upwardly or downwardly.

With these and other objects in view, this invention consists in certain novel features of construction, combination and arrangement of parts to be hereinafter more fully described and claimed.

For a complete understanding of our invention, reference is to be had to the following description and accompanying drawings, in which

Figure 1 is a front elevation illustrating a window with our invention adapted thereto.

Figure 2 is a fragmentary transverse sectional view illustrating the same.

Figure 3 is a horizontal sectional view illustrating the combined screen and ventilator.

Figure 4 is an elevational view, partly in section, showing the releasable connection between the ventilator and the screen.

Figure 5 is a sectional view taken on the line 5—5 of Figure 4.

Figure 6 is a sectional view taken on the line 6—6 of Figure 4.

For the convenience of illustration, we have shown our invention adapted to a window. However, it is to be understood that the invention is readily adaptable to a door or other similar device.

Referring in detail to the drawings, the numeral 1 indicates a window frame wherein the usual upper and lower sashes 2 and 3 are shown as slidably mounted.

The invention comprises a screen 4 and a ventilator 5, closely associated with each other and capable of being separated when desired. The screen 4 includes a frame 6 closed by wire mesh or other foraminous material 7. The foraminous material 7 is secured to the frame 6, as usual in screen constructions by having the foraminous material engaging one face of the frame and secured thereto by beading strips 8. The screen frame is hinged to the window frame 1, as shown at 9. The hinges 9 are of such a construction that the frame 6 can be readily removed from the window frame when desired. An abutment rib or strip 10 is formed on the screen frame to abut the lower rail of the upper sash 2 to prevent entrance of insects and the like between the screen frame and the upper sash. It is to be noted that the upper and lower sashes are free to be moved within the window frame with the present invention occupying the position as shown in Figure 2.

Fitting within the screen frame is a ventilator frame 11 having a series of spaced slats 12. The slats are so arranged that air currents passing through the screen may readily pass through the window when the lower sash is elevated either in an upward direction or in a downward direction, depending in which position the slats 12 are disposed. The slats from the position as shown in Figure 2 may be caused to slope in an opposite direction by reversing the position of the frame 11 within the screen frame. The slats of the ventilator will act as shades, preventing a person from the outside of a building from looking into the building while a person inside of the building may readily see outside of the building.

The ventilator frame 11 has sockets 13 in opposite sides thereof and one side of the screen frame carries pins 14 to enter the sockets of the adjacent side of the ventilator frame. The arrangement of the sockets in the ventilator frame permits the ventilator to be reversed in position in the screen frame.

A casing 15 is secured to the screen frame and has slidably mounted therein a latch plate 16 provided with a finger piece 17 extending through a slot 18 in the casing. Opposite walls of the slot are notched, as shown in Figure 4, to receive the finger piece for retaining the latch plate in several positions against accidental movement. The ends of the latch plate during a certain position of the latter, project beyond opposite sides of the casing so that one end of the latch plate may overlap the ventilator frame while the other end of the latch plate enters a keeper 19 secured to the window frame. The latch plate when positioned as described locks the screen against hinging movement and also secures the ventilator against removal from the screen frame. Should it be desired to retain the screen in a locked position to the window frame, the keeper 19 will permit a further movement of the latch plate therein so that said latch plate will become disengaged from the ventilator. The ventilator then may be easily removed from the screen frame. It is to be understood that the ventilator and screen fastening means are located on the inside of the device or the side adjacent to the lower window sash so that the device cannot be opened or disassembled from the outside of the window.

Having described the invention, we claim:

In combination with a window frame, a keeper

secured to one side of the frame, a screen frame hinged to the opposite side of the window frame from said keeper, foraminous material secured to and closing the screen frame, said screen having pairs of sockets located in opposing edges thereof, a ventilator frame fitting against opposing edges of the screen frame, slats secured to the ventilator frame, a pair of pins secured to the ventilator frame and projecting beyond one side thereof to enter either pair of sockets, a latch casing secured to the screen frame at the non-hinged side thereof and having its opposite ends open, a latch plate slidable in said casing and projecting beyond the open ends of the latter, said casing having a slot, and a finger piece extending through the slot and secured to the latch plate and movable along said slot in either direction to move the latch plate into several positions to either extend into the keeper and overlie the ventilator frame or to enter the keeper and be disengaged from the ventilator frame or to disengage from the keeper and overlie the ventilator frame.

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