March 14, 1933. E. J. SALTZMAN 1,901,568

WINDOW VENTILATOR

Filed Sept. 26, 1931 2 Sheets-Sheet 1

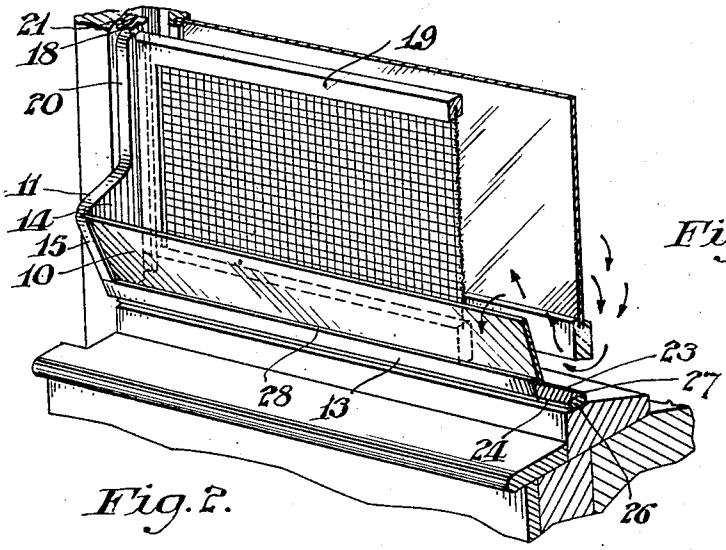


Fig. 1.

Fig. 2.

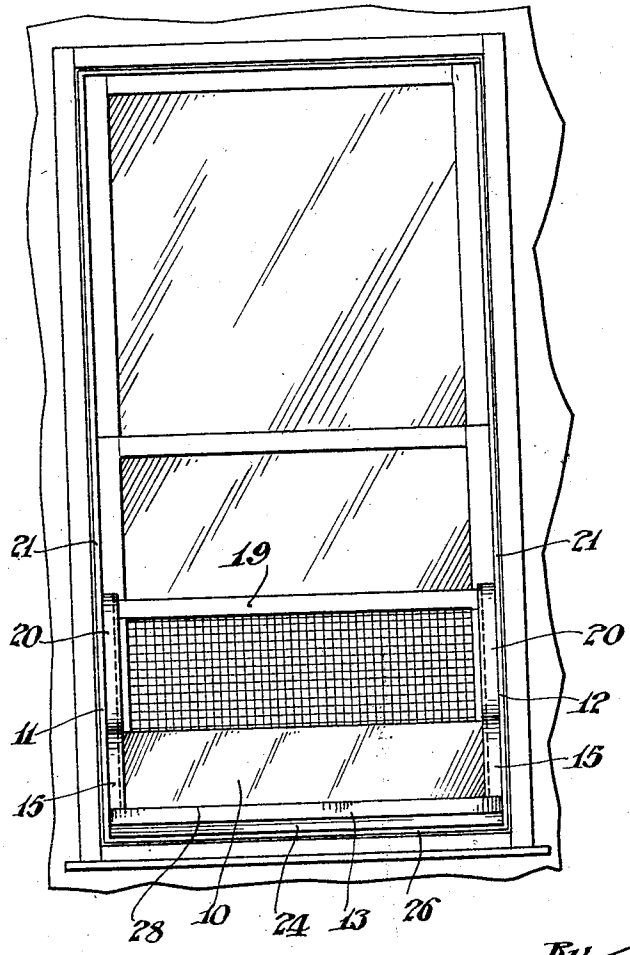
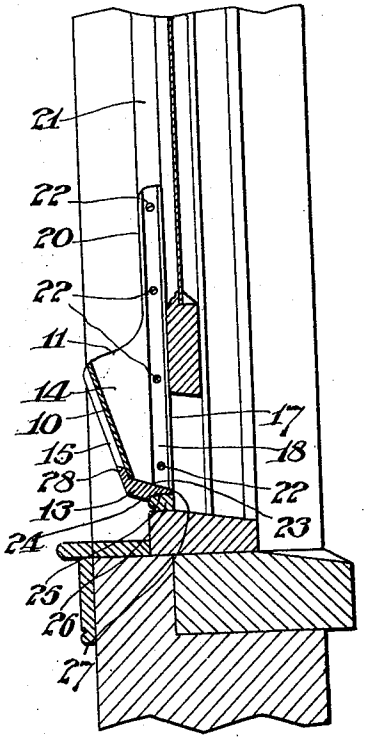


Fig. 3.



Inventor:
Eli J. Saltzman,
By Jas. C. Wobensmith
Attorney.

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WINDOW VENTILATOR

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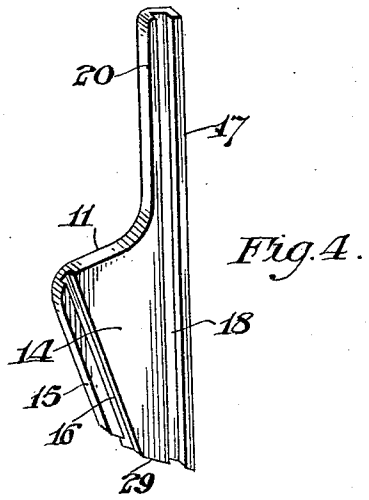


Fig. 4.

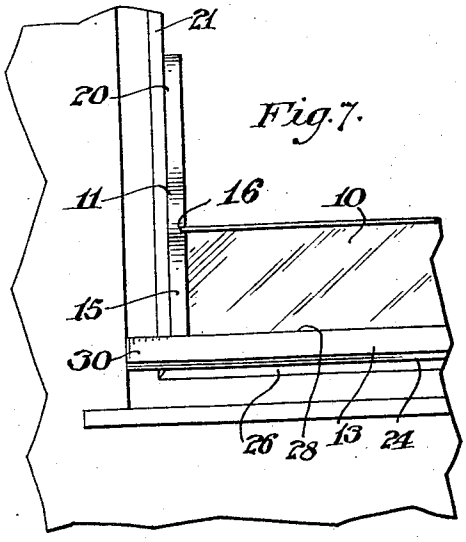


Fig. 7.

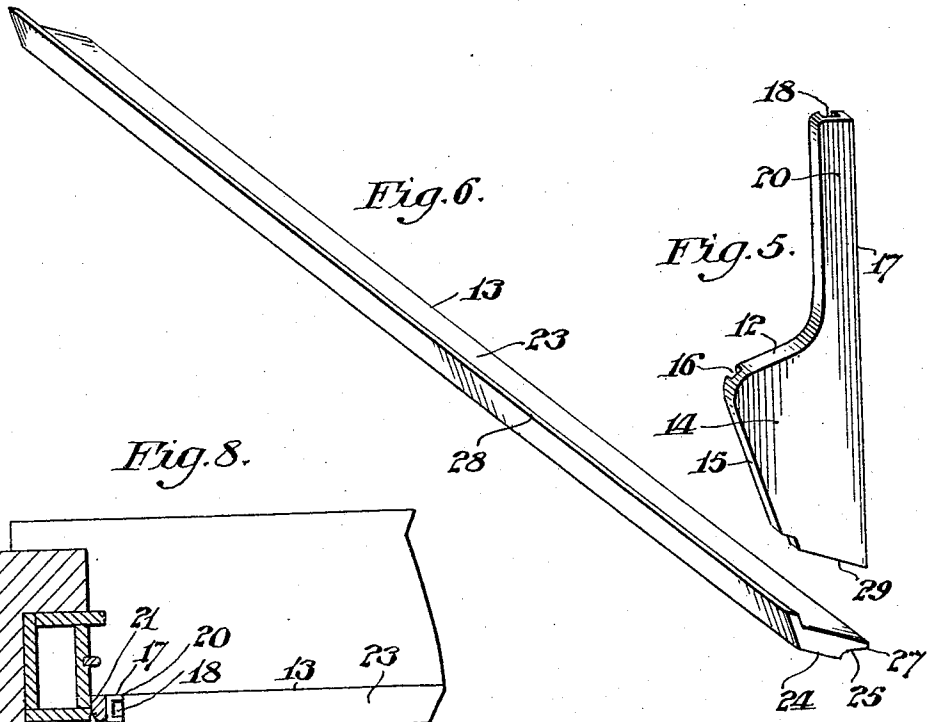
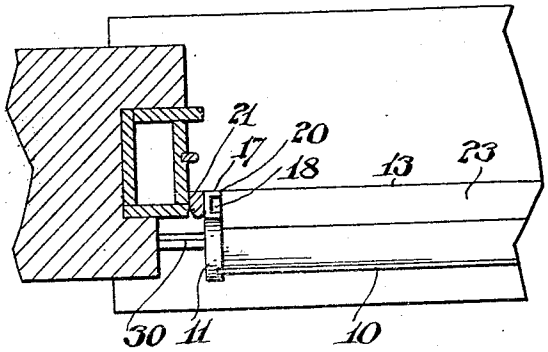


Fig. 6.

Fig. 5.

Fig. 8.



Inventor:
Eli J. Saltzman,
By Jas. C. Wohlenswitte
Attorney.

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UNITED STATES PATENT OFFICE

ELI J. SALTZMAN, OF PHILADELPHIA, PENNSYLVANIA

WINDOW VENTILATOR

Application filed September 26, 1931. Serial No. 565,238.

My invention relates to window ventilators of the type in which a sheet of glass is supported adjacent the lower window sash, so that when the sash is partly raised the incoming air will be deflected upwardly into the room and diffused therein without objectionable drafts.

The window ventilators of the aforesaid type at present in common use are constructed so that the lower edge of the glass usually rests upon the inner window sill, whereby an objectionable pocket is formed between the lower portion of the glass and the window trim, in which pocket dirt accumulates and storm water often collects.

The principal object of my present invention is to provide an improved structure for supporting a sheet of glass adjacent the lower portion of a window sash, which is so constructed and arranged that the parts thereof may be readily made of wood or the like, and which may be easily and conveniently fitted and assembled to the window by persons having comparatively little skill.

A further object of my invention is to provide a structure which is so constructed and arranged that dirt and storm water will be directed outwardly over the top of the lower sash stop or molding instead of being permitted to accumulate on the inner window sill.

A further object of my invention is to provide, in connection with a window ventilator, means for supporting a fly screen of any preferred type adjacent the lower sash, in such manner that the sash may be freely raised and lowered if desired, without disturbing the screen.

The nature and characteristic features of my invention will be more readily understood from the following description, taken in connection with the accompanying drawings forming part hereof, in which:

Figure 1 is a fragmentary perspective view, partly in section, illustrating the device of my present invention shown in operative relationship with the lower part of a window structure, a fly screen being shown in position;

Fig. 2 is a front elevation of the inner or room side of a window frame and its sash, with a ventilator embodying the main features of my invention shown in operative relationship.

Fig. 3 is a vertical sectional view, enlarged, of the lower portion of a window frame and sash, with the ventilator of my invention shown mounted therein, the fly screen being omitted for clarity of illustration;

Fig. 4 is a perspective view of one of the side members of the structure for supporting the sheet of glass;

Fig. 5 is a perspective view of the other side member;

Fig. 6 is a perspective view of the bottom member of the structure;

Fig. 7 is a fragmentary elevational view of one corner of a window frame, showing a modified arrangement in which the ends of the bottom member are continued beyond the side members and fitted to the window structure instead of terminating at the side members as illustrated in Figs. 1, 2 and 3 of the drawings; and

Fig. 8 is a sectional plan view of the arrangement shown in Fig. 7.

Referring to the drawings, in the particular embodiment of my invention therein shown, 10 is a sheet of plate glass of the requisite dimensions; 11 and 12 are the side supporting members, which are made right and left hand so that they may be mounted at each side of the window frame; and 13 is the bottom member.

The side members 11 and 12, and the bottom member 13, are preferably made of wood, so that the same may be readily shaped by means of the machinery usually found in an ordinary woodworking mill.

Each of the side members 11 and 12 comprises a body portion 14, the inner edge 15 of which is preferably inclined to the vertical. A groove 16 extends parallel to the inner edge 15, these grooves 16 being provided for the reception of the ends of the glass plate 10. The outer edge 17 of each of the side members 11 and 12 extends vertically, and a groove 18 is provided parallel

to said outer edge 17. The grooves 18 are provided for the positioning therein of a fly screen 19 of any preferred type.

A leg portion 20 extends upwardly above the body portion 14 of each of the side members 11 and 12, and the groove 18 for the positioning of the fly screen is continued through said upwardly extending leg portion 20 for the better support of said screen. The side members 11 and 12 are secured to the side window stops 21 of the window frame structure by means of screws or nails 22, or other suitable fastening devices, which preferably extend through the base of the groove.

The bottom member 13 comprises a shaped strip, also preferably made of wood, the main upper surface 23 of which is inclined, and the main lower surface 24 of which is also inclined, preferably parallel to the upper surface 23. At the lower forward portion of the strip 13, the same is preferably recessed, as at 25, complementally to the lower sash stop or molding 26 of the window frame structure, thereby providing a lip 27 which extends over the top of said stop 26. At the inner edge of the bottom member 13 there is also preferably provided an upwardly extending lip 28, which serves as an abutment for the lower portion of the glass plate 10.

The lower ends of the side members 11 and 12 are shaped, as at 29, complementally to the upper surfaces of the bottom member 13, so that when the end portions of the bottom member are secured thereto, the entire structure will be rigid and secure.

In mounting the structure in the window frame, the side members 11 and 12 are first secured to the side sash stops 21 by means of screws or nails 22. When so mounted, the leg portion 20 serves to relieve the strain at the place of attachment of the side members 11 and 12.

The bottom member 13 is initially made in lengths slightly longer than necessary for the standard sizes of window frames in common use, whereby, after the side members are positioned as aforesaid, it will only be necessary to cut the bottom member 13 to a length corresponding to the distance between the outer faces of the side members 11and 12, whereupon said bottom member 13 may be secured in place on the shaped lower ends of the side members.

In some instances, it may be preferred to extend, as at 30, the ends of the bottom member 13 beyond the outer faces of the side members 11 and 12, in which case the same may be readily fitted to the window frame structure, as shown in Figs. 7 and 8 of the drawings.

It will be seen that the side and bottom members of the structure may be readily made in an ordinary woodworking mill, and easily fitted to the window frame with a minimum of labor, and by persons having relatively little skill; and that, when the device is mounted in position, any dirt or storm water which passes under the window sash will be directed by the bottom member of the structure outwardly over the lower sash stop, and there will be no tendency for dirt to accumulate upon the window sill, which has always been an objectionable feature of ventilators of this general type at present in use.

I claim:

1. A window ventilator comprising side members secured to side portions of the window frame, each of said side members comprising a unitary piece of wood, a bottom member extending over the lower window sash stop, and a glass plate positioned adjacent the lower portion of the lower sash by said side and bottom members, the side members having grooves for the reception of the ends of the glass plate and having integral leg portions extending upwardly from the body portions thereof along the side sash stops, the bottom member having an inclined upper surface and a lip portion along its inner edge for positioning the lower edge of the glass plate, and the lower ends of the side members being shaped complementally to the upper surfaces of the bottom member.

2. A window ventilator comprising side members secured to side portions of the window frame, each of said side members comprising a unitary piece of wood, a bottom member extending over the lower window sash stop, and a glass plate positioned adjacent the lower portion of the lower sash by said side and bottom members, the side members having grooves for the reception of the ends of the glass plate and having integral leg portions extending upwardly from the body portions thereof along the side sash stops, the bottom member having an inclined upper surface and a lip portion along its inner edge for positioning the lower edge of the glass plate, the lower ends of the side members being shaped complementally to the upper surfaces of the bottom member, and the lower forward edge of the bottom member being recessed complementally to the lower sash stop.

3. A window ventilator comprising side members secured to side portions of the window frame, each of said side members comprising a unitary piece of wood, a bottom member extending over the lower window sash stop, and a glass plate positioned adjacent the lower portion of the lower sash by said side and bottom members, the side members having grooves for the reception of the ends of the glass plate and having upwardly extending integral leg portions, the side members also having grooves for positioning a fly screen adjacent the lower win-

dow sash, said last mentioned grooves extending through the leg portions, the bottom member having an inclined upper surface and a lip portion along its inner edge for positioning the lower edge of the glass plate, and the lower ends of the side members being shaped complementally to the upper surfaces of the bottom member.

4. A window ventilator comprising side members secured to side portions of the window frame, each of said side members comprising a unitary piece of wood, a bottom member extending over the lower window sash stop, and a glass plate positioned adjacent the lower portion of the lower sash by said side and bottom members, the side members having grooves for the reception of the ends of the glass plate and having upwardly extending integral leg portions, the side member also having grooves for positioning a fly screen adjacent the lower window sash, said last mentioned grooves extending through the leg portions, the bottom member having an inclined upper surface and a lip portion along its inner edge for positioning the lower edge of the glass plate, the lower ends of the side members being shaped complementally to the upper surfaces of the bottom member, and the lower forward edge of the bottom member being recessed complementally to the lower sash stop.

In testimony whereof, I have hereunto signed my name.

ELI J. SALTZMAN.