No. 769,570. PATENTED SEPT. 6, 1904.

D. SCHAFER.

WINDOW VENTILATOR.

APPLICATION FILED MAR. 26, 1904.

NO MODEL. 2 SHEETS—SHEET 1.

Fig. 1.

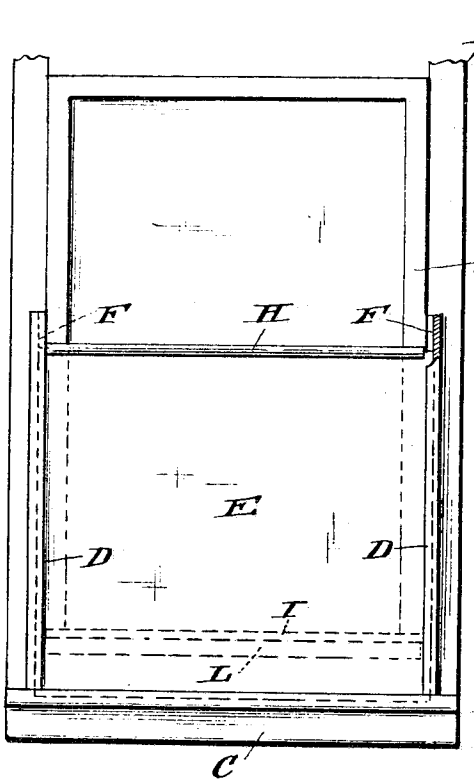
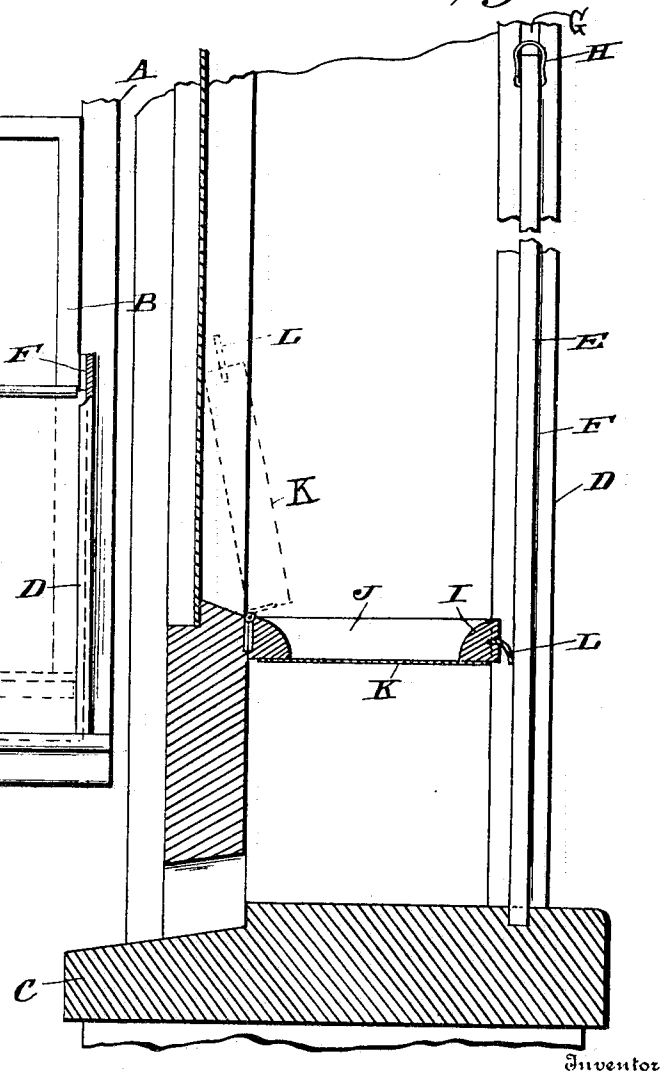


Fig. 2.



Witnesses

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NO MODEL. 2 SHEETS—SHEET 2.

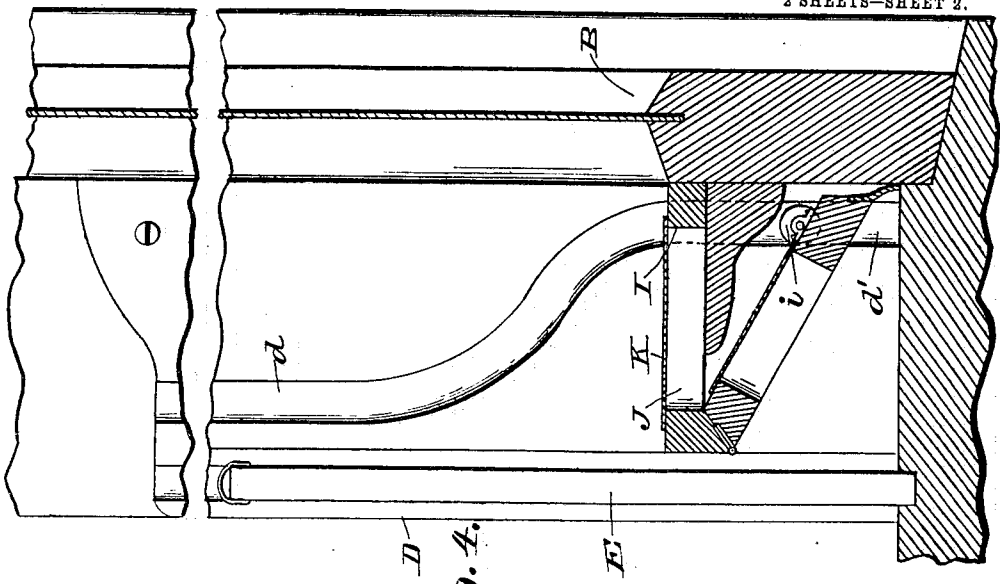


Fig. 4.

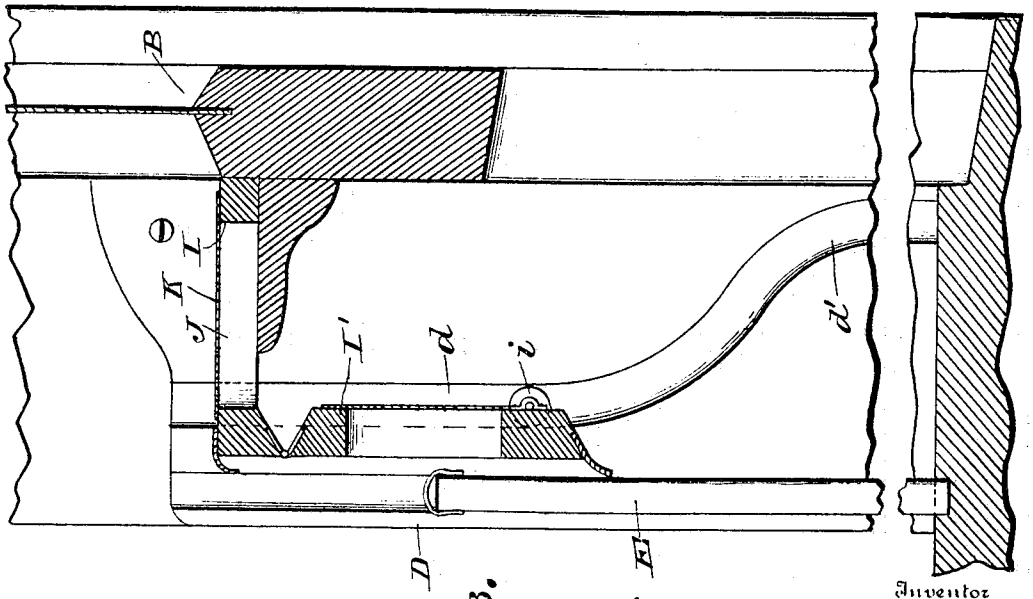


Fig. 3.

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No. 769,570. Patented September 6, 1904.

UNITED STATES PATENT OFFICE.

DITRICH SCHAFER, OF SACRAMENTO, CALIFORNIA.

WINDOW-VENTILATOR.

SPECIFICATION forming part of Letters Patent No. 769,570, dated September 6, 1904.

Application filed March 26, 1904. Serial No. 200,142. (No model.)

To all whom it may concern:

Be it known that I, DITRICH SCHAFER, a citizen of the United States, residing at Sacramento, in the county of Sacramento and State of California, have invented certain new and useful Improvements in Window-Ventilators, of which the following is a specification.

My invention relates to devices for ventilating rooms; and it consists of a plate of glass or other rigid material placed in front of the bottom of the lower sash and a frame carrying a wire screen hinged on the bottom rail of the sash and having a weather-strip on its outer edge to bear against said strip of rigid material.

The construction and advantages of my invention will fully appear hereinafter and by reference to the accompanying drawings, in which—

Figure 1 is a front view of a window with my ventilator in place; Fig. 2, a cross-section of Fig. 1, on an enlarged scale, showing the sash in a raised position; and Figs. 3 and 4, views of a modification of my invention, showing the window open and closed, respectively.

Referring to the drawings, in which similar reference characters indicate corresponding parts throughout the several views, A represents a window-frame, B the lower sash, and C the sill.

D represents uprights secured to the frame A and extended outwardly above the sill, and E a plate of rigid material, preferably glass, secured in a groove F in the sill and grooves G in uprights D.

H represents a grooved molding of metal or other suitable material to cover the upper edge of the glass plate. It will be readily understood that instead of a single plate of glass E the front may be made of a number of pieces joined in one plate.

I represents an open frame hinged to the bottom rail of the sash, adapted to swing upwardly, and having secured thereto, over the opening J therein, a strip of gauze fabric K.

L represents a weather-strip secured in the outer edge of frame I to prevent dust and insects entering between said frame and plate E.

It will be readily understood from the above description and an inspection of the drawings that when the window-sash is raised, as shown in Fig. 2, the air will enter under the sash and striking the plate E will be deflected upward, whence it will pass through the screen K. It will be understood that the screen serves not only to prevent insects and dust from entering the room, but also serves to break the force of the incoming air, and thus prevents a draft. When it is desired, the screen-frame may be swung upward and back against the window-pane, as shown in dotted lines in Fig. 2.

I am aware that window-ventilators have been patented employing glass deflectors and screen-frames, but my invention possesses advantages over these in that by having the screen-frame attached to the bottom rail of the window-sash the sash may be raised to any height desired and the screen will operate.

In the modification shown in Figs. 3 and 4 each upright D is provided with a groove *d* near its outer edge, which curves inwardly near the bottom of the upright, as shown at *d'*. In these views also the frame I is secured to the bottom rail of the window-sash B and has another screen-frame I' hinged to its outer edge and provided with rollers *i* on each end to ride in the grooves *d* in upright D. By this construction it will be seen that when the window is raised, as shown in Fig. 3, the two frames I and I' cover the opening, the frame I retaining its horizontal position, while the frame I' assumes a vertical position above the top of plate E, so that when desired a double amount of air may be admitted to the room. Fig. 3 shows the position assumed by the frame I' when the window-sash is in a closed position.

Having thus described my invention, what I claim is—

1. In a window-ventilator, a plate of rigid material placed inside of and at a distance from the bottom of the window-sash, and a horizontal frame covered with a wire-gauze fabric and secured to the window-sash to bridge the space between the bottom of the sash and said plate, substantially as shown and described.

2. In a window-ventilator, a plate of rigid material placed inside of and at a distance from the bottom of the window-sash, and a hori-

zontal frame covered with a wire-gauze fabric and hinged to the bottom of the sash and extending to said plate, substantially as shown and described.

3. In a window-ventilator, in combination with the lower sash and the bottom rail thereof, a plate of rigid material placed inside of and at a distance therefrom, and a horizontal frame hinged to the bottom rail and extending to the plate of rigid material, substantially as shown and described.

4. In a window-ventilator, in combination with the lower sash, and the bottom rail thereof, a plate of glass placed inside of and at a distance therefrom, a frame having a wire screen secured thereto, and hinged to said bottom rail, and a weather-strip secured to the free edge of said frame and adapted to close the space between the frame and said plate of glass when in an operative position, substantially as shown and described.

5. In a window-ventilator, in combination with a window frame and sash, uprights at each side of the frame, having grooves, a plate of rigid material connecting said uprights, a screen-frame secured to the bottom rail of the window-sash and extending toward said plate of rigid material, and a frame hinged to the free edge of said secured frame and having rollers to ride in the grooves in said uprights, substantially as shown and described.

In testimony whereof I hereto affix my signature in the presence of two witnesses.

DITRICH SCHAFER.

Witnesses:
W. A. LATTA,
HARRY S. LANDIS.