

(No Model.)

J. F. OGDEN.
WINDOW VENTILATOR.

No. 402,765.

Patented May 7, 1889.

Fig. 1.

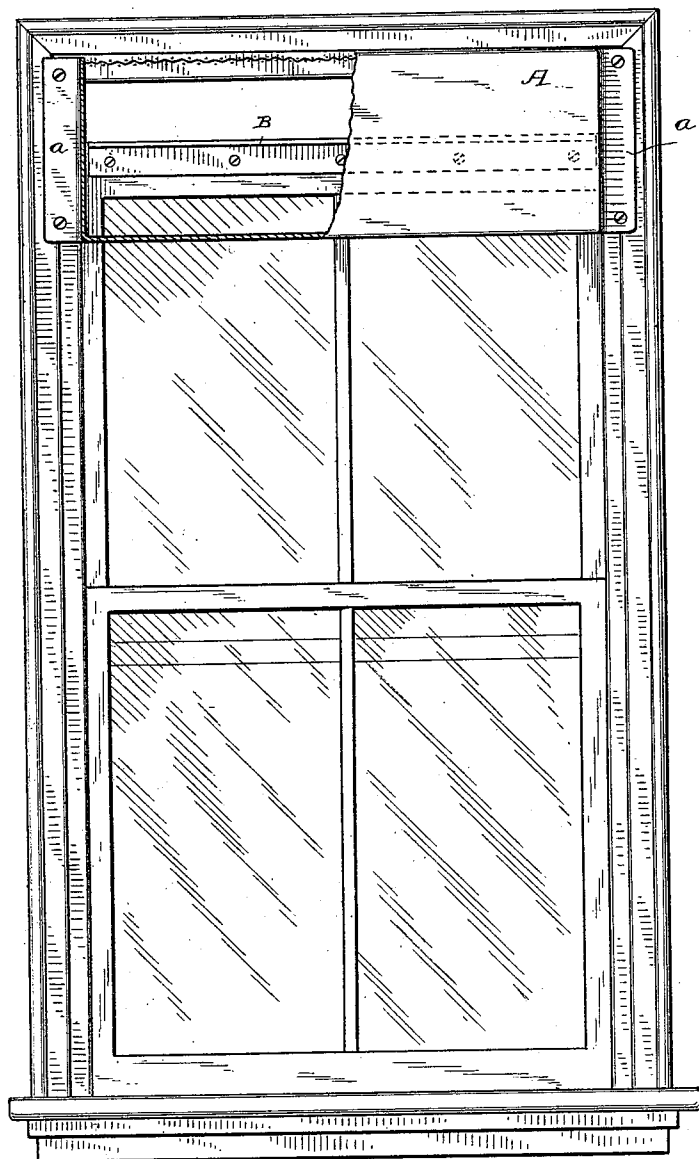
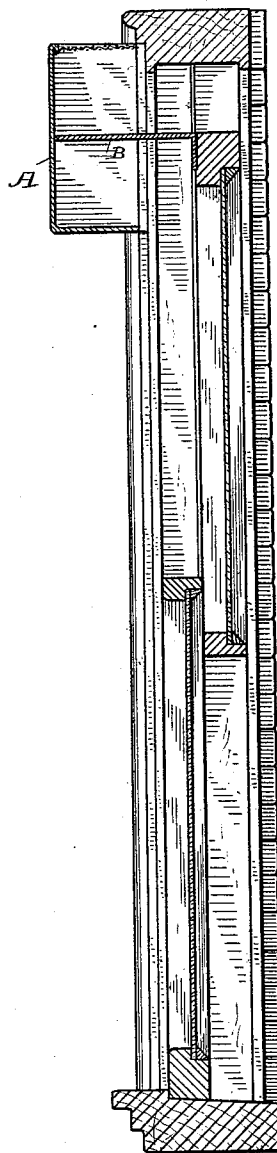


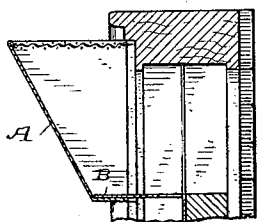
Fig. 2.



Witnesses,

H. A. Lamb
A. M. Curtis

Fig. 3.



Inventor

Jay F. Ogden
per *Geo. M. Finckel*
Attorney

UNITED STATES PATENT OFFICE.

JAY F. OGDEN, OF BUCKHANNON, WEST VIRGINIA.

WINDOW-VENTILATOR.

SPECIFICATION forming part of Letters Patent No. 402,765, dated May 7, 1889.

Application filed February 4, 1889. Serial No. 298,643. (No model.)

To all whom it may concern:

Be it known that I, JAY F. OGDEN, a citizen of the United States of America, residing at Buckhannon, in the county of Upshur and State of West Virginia, have invented certain new and useful Improvements in Window-Ventilators, of which the following is a specification, reference being had therein to the accompanying drawings.

In school-rooms and similar places, where a number of persons are compelled to remain for a considerable period of time, great difficulty has been experienced in maintaining thorough ventilation without establishing dangerous drafts.

My invention belongs to the class which are applied to windows; and it consists of a shield, constructed as hereinafter described, applied to the upper part of the window-frame, and a partition or plate secured on the upper horizontal portion of the window-sash, so that the said sash may be moved up and down to diminish or increase the extent of the opening, as hereinafter set forth.

In the accompanying drawings, Figure 1 is an elevation of a window furnished with my improvement, a portion of the shield being broken out the better to illustrate the invention. Fig. 2 is a vertical section taken on a plane passing through the line *xx*, Fig. 1, and Fig. 3 a sectional view of a modification.

In the figures like letters indicate corresponding parts, and the letter A designates the shield, which is a box-like structure with two of its sides—to wit, the upper and that contiguous the window—omitted, as shown, and having flanges or wings *a* at either end, by which it may be secured with screws or nails to the window-frame.

The letter B designates the partition or plate, which in this instance has one of its longer edges bent or formed to extend at right angles to the plate, so that the latter may be secured with screws or nails to the upper horizontal part of the window-sash, as shown. In Figs. 1 and 2 (which illustrate the preferred embodiment of my invention) this partition or plate is of such size and shape that it extends into and forms practically a complete partition in the shield in any position to which it may be adjusted by the elevation or lower-

ing of the window. On inspection of the drawings it will be seen that the lower edge of the shield does not extend across the groove in which the lower sash moves, so that when desirable the lower sash may be elevated to the usual height. The extent of opening afforded by the upper sash is of course limited only by the depth of the shield. Whatever may be the position of the partition in the shield, with the construction shown in Figs. 1 and 2 the plate or partition B will prevent the falling of cold air when it enters at the upper part of window, and the shield will direct it into the upper part of the room, where it will mix, as usual, with warm air and also prevent the formation of direct currents in the lower part of the room. In the modification shown in Fig. 3 the face of the shield is inclined outward and upward, and in this instance the plate B will not form a complete partition in all the positions to which it may be elevated in the shield. It is desirable, however, that when in its lowest position it shall entirely cover the opening between the window and the lower edge of the shield.

The direction of movement of air through the ventilator at any particular time will of course depend upon circumstances—as, for example, the relative conditions of the air inside the room and that outside, and the location of other openings in the room.

To exclude dust and insects, I cover the opening between the window-frame and the shield with a piece of wire gauze or netting.

The shield may be made of metal, wood, or both, or any other suitable material or materials, and may be ornamented in any desirable manner.

It will be found advantageous to make the shield as a frame with the open spaces filled with glass, (ornamented or plain), and thus admit the light, which otherwise would to a slight extent be excluded.

I do not of course limit myself to the particular form and proportions of parts shown in the drawings, as they may be changed without departing from the scope of my invention.

Having now described my invention, what I claim, and desire to secure by Letters Patent, is—

1. A ventilator for windows, composed of a

box-like-shield, substantially as described, attached to the upper part of a window-frame, and a plate or partition, B, secured to the window-sash, so as to extend into the shield, substantially as shown and described.

2. A ventilator for windows, composed of a box-like shield, substantially as described, attached to the upper part of a window-frame, and a plate or partition secured to the window-sash, so as to extend across the open space between said shield and the window to

form a practically complete partition in any position to which it may be adjusted in the shield by the movement of the window, as described.

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

JAY F. OGDEN.

Witnesses:

J. J. MORGAN,
N. C. LOUDIN.