(No Model.)

R. S. READ.

VENTILATOR.

No. 265,636. Patented Oct. 10, 1882.

Fig 1

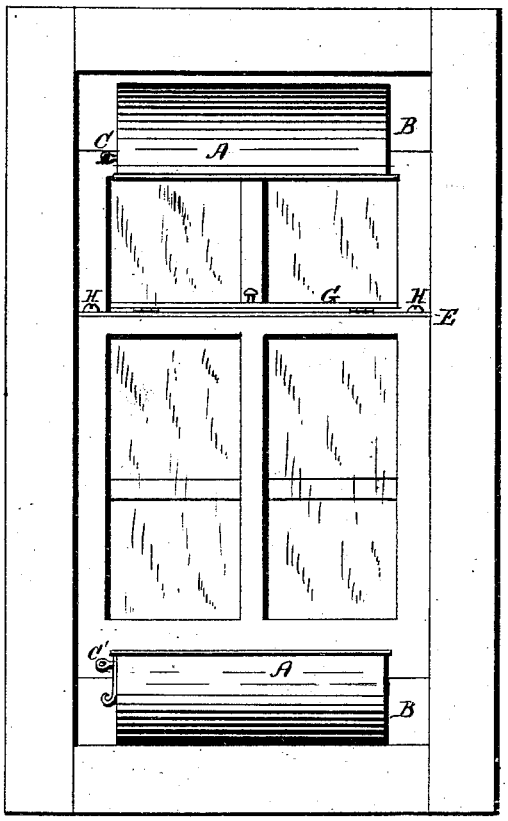


Fig 2

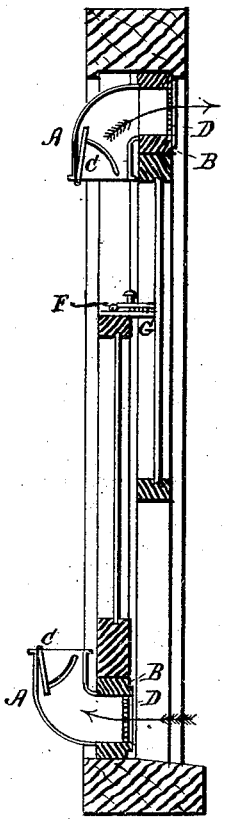


Fig 3

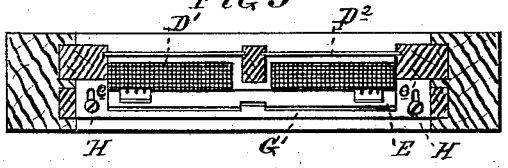
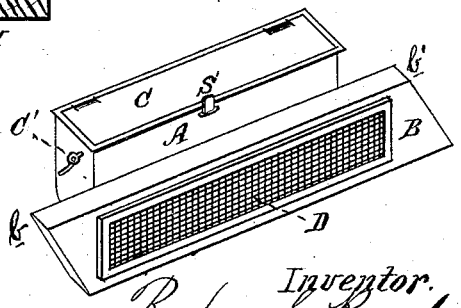


Fig 4



Witnesses.
A. P. Morgan
J. H. Appleton

Inventor.
Rufus S. Read.

UNITED STATES PATENT OFFICE.

RUFUS S. READ, OF PHILADELPHIA, PENNSYLVANIA.

VENTILATOR.

SPECIFICATION forming part of Letters Patent No. 265,636, dated October 10, 1882.

Application filed March 20, 1882. (No model.)

To all whom it may concern:

Be it known that I, RUFUS S. READ, a citizen of the United States, residing in the city and county of Philadelphia, and State of Pennsylvania, have invented a new and useful Improvement in Window-Ventilators, of which the following is a specification.

The object of my invention is to provide a ventilator which may be readily applied for ventilating rooms, cars, halls, &c.; and it consists of an oblong bar having the ends cut obliquely to enable them to pass the inside or stop-bead of the window-frame, and provided with an opening covered with wire-gauze for the passage of air into a curved trough which is attached to said bar, the upper end of the trough which leads into the apartment being furnished with an adjustable cover, by which means the air-passage can be regulated to admit more or less air, or closed, as required, without removing the ventilator from the window-frame.

My invention further consists in a ventilator applied to the meeting-rails of the upper and lower sash, which may be used in connection with the ventilators at the bottom and upper portion of the window to afford more ventilation, if desired, reference being had to the accompanying drawings, in which—

Figure 1 is a view of a window frame and sash with the ventilators in position. Fig. 2 is a vertical section of the same. Fig. 3 is a plan view of the ventilator applied to the upper rail of the lower sash. Fig. 4 is a perspective view of the ventilator detached from the window-frame.

B, Figs. 1 and 4, is an oblong bar made of suitable dimensions to fit in the groove in which the sash works, and has its ends *b b'* cut in an oblique direction to enable them to pass the stop-beads when the ventilator is tilted longitudinally to place it in position or to remove it from the window-frame. D is an air-opening made in the said bar and covered with a wire-gauze for protection from the entrance of dust and insects.

A is a curved trough, of tin or other suitable material, attached to the inside of the bar B, directly over the opening, by which means the fresh air is conducted, so as to produce an upward current of air in the room, one of the said troughs being placed in an inverted position at the top of the upper sash, as shown in Fig. 2, for the exit of impure air. The trough A, Figs. 2 and 4, is provided with a hinged cover, C, operated by a handle, C', and held in place by a spring, S, so as to entirely close the air-duct or allow it to remain partially open.

G, Figs. 1 and 3, is a sliding plate extending across the upper rail of the lower sash and secured in position by set-screws H H, which pass through slots *e e'*, thus enabling the plate to be moved in and out, so as not to interfere in raising or lowering the sash. The said plate G is provided with openings D' D^2, covered with wire-gauze and closed with a hinged cover, E, by which means a current of air may be allowed to pass between the upper and lower sash without admitting dust or insects; or it may be shut off entirely, as occasions require.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. The combination, in a window-ventilator, of the oblong bar B, provided with oblique parallel ends *b b'*, air-opening and wire-gauze D, curved trough A, hinged cover C, and spring S, substantially as shown and described.

2. The combination of the adjustable plate G, slots *e e'*, set-screws H H, air-openings and wire-gauze D' D^2, and cover E with the upper or meeting rail of the lower sash, substantially as shown and described.

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

RUFUS S. READ.

Witnesses:
A. H. MORGAN,
J. L. APPLETON.