(No Model.)

E. W. CHADWICK.

VENTILATOR FOR WINDOW SASHES.

No. 299,960. Patented June 10, 1884.

Fig. 1.

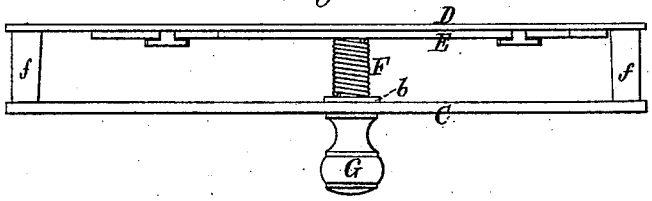


Fig. 2.

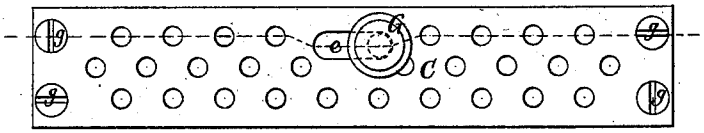


Fig. 3.

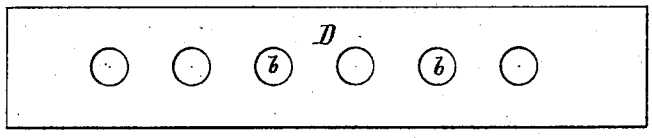


Fig. 4.

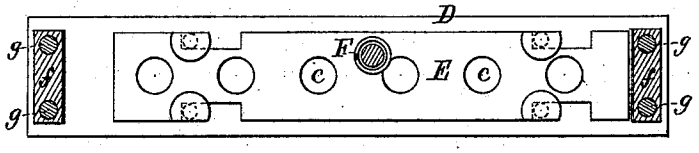


Fig. 5.

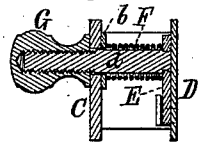
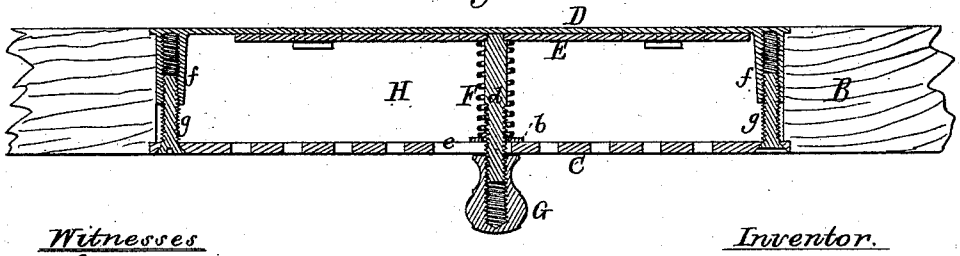


Fig. 6.



Witnesses
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UNITED STATES PATENT OFFICE.

EDWARD WELLS CHADWICK, OF EDGARTOWN, MASSACHUSETTS.

VENTILATOR FOR WINDOW-SASHES.

SPECIFICATION forming part of Letters Patent No. 299,960, dated June 10, 1884.

Application filed January 21, 1884. (No model.)

To all whom it may concern:

Be it known that I, EDWARD WELLS CHADWICK, of Edgartown, in the county of Dukes, of the Commonwealth of Massachusetts, have invented a new and useful Improvement in Ventilators for Window-Sashes; and I do hereby declare the same to be described in the following specification and represented in the accompanying drawings, of which—

Figure 1 is a top view; Fig. 2, a front elevation; Fig. 3, a rear view. Fig. 4 is a longitudinal section, and Fig. 5 a transverse and median section, of a ventilator containing my invention, the nature of which is defined in the claims hereinafter presented. Fig. 6 is a horizontal section showing the application of the ventilator to the lower bar of the lower sash of a window.

The said ventilator is of the class or kind represented and described in the United States Patent No. 289,387, dated December 4, 1883, and granted to me.

My present improvement is for the purpose of connecting the parts of the ventilator and rendering it adaptable to sashes of different thicknesses, as a ventilator constructed as shown in the aforesaid patent can only be used with a sash-bar of a thickness corresponding to or substantially to that of the ventilator.

In carrying out my said improvement, not only are the two perforated plates of the ventilator provided with lugs and screws for connecting them and fixing them to a sash-bar, but the knob for operating the slide-valve is screwed or adjustable on the shank projecting from the valve.

The main parts of the ventilator, as represented, consist of the foraminous or perforated plates C and D, a perforated slide-valve, E, a knob, G, and a spiral spring, F, the latter encompassing the shank *d* of the knob and bearing at one end against the valve, and at the other against a washer, *b*, placed on the said shank concentrically and against the plate C. The valve E is a plate adapted to slide lengthwise of it in suitable guides and against the rear face of the plate D, which has in it a series of holes, *b*, arranged at equal distances apart and corresponding in number and size and in their distances asunder with another such series of holes, *c*, made through the valve. The said shank *d* is screw-threaded and extends from the valve through and beyond a slot, *e*, made lengthwise in the plate C, the knob G being made with a female screw to admit of it being screwed on the shank. The plate D, near its ends, has lugs or flanges *f* extending back from it, and there go through the plate C and screw into said lugs or flanges, four or other suitable number of screws, *g*, having nicked and tapering heads, the plate being countersunk to receive the said heads. The screw-holes in each of the lugs should have a depth equal or about so to the depth of the lug, and each of the screws to enter such holes should have a shank equal or about equal in length to the depth of the hole for its reception, the same being to enable the plates C and D, when not fixed to a sash, to be held in connection with each other, or to be disconnected and applied and fixed to a sash-bar of any ordinary thickness within the limit of about double the depth of each of the lugs.

In Fig. 6 the ventilator is represented as applied to the bar B of a window-sash, such bar being slotted, as shown at H, between the two plates C and D of the ventilator, which are held in place not only by being let or sunk into the bar, but by means of the screw-threaded lugs and their screws.

After the ventilator so made may have been fixed to a sash-bar, the knob G is to be screwed upon the shank, in which case such knob will not only serve to aid in moving the valve, but with the screw of the shank to clamp such valve in place after any such movement of it, to open the holes of the plate D more or less, in order to allow air to pass through such plate and the plate C.

I do not herein claim a ventilator as represented in the aforesaid Patent No. 289,387, and consisting simply of a knob, spiral spring, two perforated plates, and a perforated slide-valve, arranged and adapted as described in the specification and drawings of the said patent; but

I claim—

1. The improved ventilator, substantially as hereinbefore described, consisting of the

two perforated plates provided with connection-screws, and with lugs screw-threaded to engage with them, and of the perforated slide-valve, and the screw-threaded knob and shank, arranged and adapted essentially as represented.

2. The ventilator consisting of the two perforated plates provided with connection-screws and with lugs, screw-threaded to engage with them, and of the perforated slide-valve, its spiral spring, and the screw-threaded knob and shank, all adapted and arranged substantially, and to operate as and for the purposes set forth.

EDWARD WELLS CHADWICK.

Witnesses:
C. H. PEASE,
J. W. COFFIN.