

L. D. HARVEY.
Window-Ventilator.

No. 205,957.

Patented July 16, 1878.

Fig. 1.

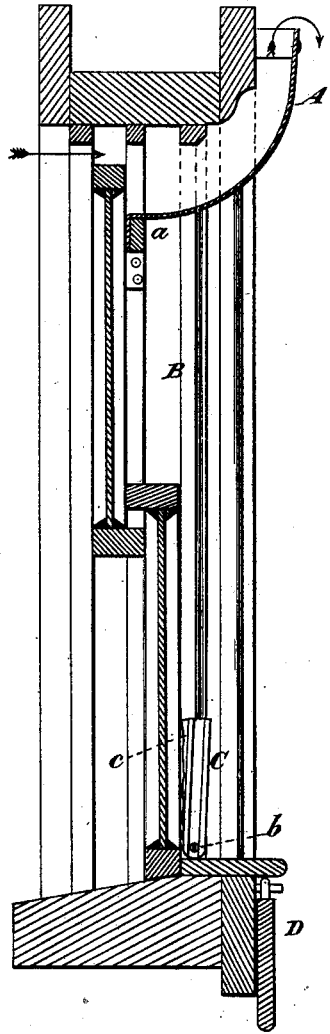


Fig. 2.

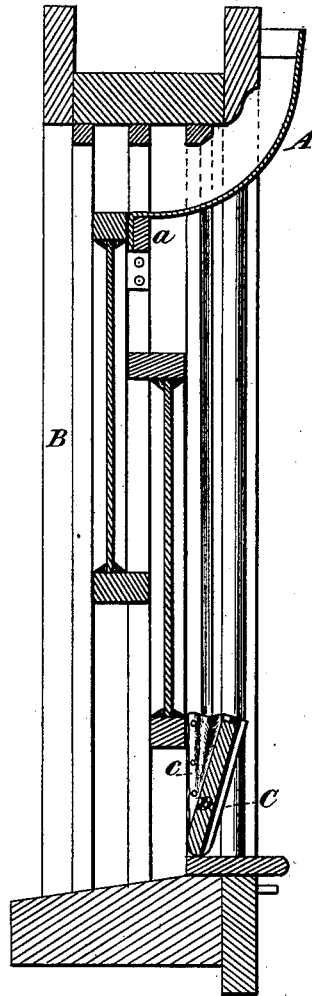
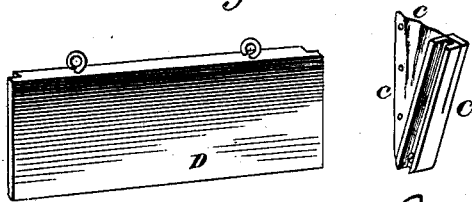


Fig. 3.



Witnesses.
A. Ruppert.
Jas. H. Lange.

Inventor.
L. Dow Harvey
Per J. H. [Signature]

UNITED STATES PATENT OFFICE.

LORENZO D. HARVEY, OF SHEBOYGAN, WISCONSIN.

IMPROVEMENT IN WINDOW-VENTILATORS.

Specification forming part of Letters Patent No. **205,957**, dated July 16, 1878; application filed January 17, 1878.

To all whom it may concern:

Be it known that I, LORENZO DOW HARVEY, of Sheboygan, in the county of Sheboygan and State of Wisconsin, have invented certain new and useful Improvements in Ventilators for Windows; and I do hereby declare the following to be a full, clear, and exact description thereof, reference being had to the accompanying drawings, and to the letters of reference marked thereon, and in which—

Figures 1 and 2 represent vertical sections of my improved ventilator as applied to a window, and Fig. 3 represents detached perspective views thereof.

Corresponding parts in the several figures are denoted by like letters.

This invention relates to certain improvements in ventilators for windows; and it consists, first, of an upper deflector similar to the one forming the subject-matter of the claim of my patent of August 7, 1877, but differing from that in being fastened at its lower end to a fixed point or bar secured to the inner sides of the window casing or frame instead of to the window-sash; and, secondly, of a lower deflector consisting of pivoted grooved pieces or bars, which receive a board or slide, and are connected to the window casing or frame by folding or textile end pieces, said grooved pieces having set or adjusting screws, substantially as hereinafter more fully set forth.

To enable others skilled in the art to which my invention appertains to make and use the same, I will proceed to describe its construction and operation.

In the annexed drawing, A refers to the upper deflector fastened to the window casing or frame B, and which is similar in all respects to the one forming the subject-matter of the claim of my patent above mentioned, excepting being fastened at its lower end to a fixed point or bar, *a*. This bar is secured to the inner sides of the window casing or frame B in any suitable manner, and arranged a short distance below the upper surface of said casing or frame, and so that the upper window-sash can move past it or stand flush with it.

By means of this improvement it will be observed that the window can be removed, when desired, without first having to detach the deflector therefrom, and can be raised and low-

ered to any desired point, or completely closed, and can be moved into and out of contact with the deflector or its bar *a*, in varying the in and out drafts.

The lower deflector consists of the below-named parts.

C C are grooved pieces or bars pivoted at their lower ends to the inner sides of the window casing or frame B, preferably by means of set or adjusting screws *b*, to set and hold them at any desired inclination or angle, by which the deflector can be accordingly adjusted with reference to the in-rushing currents of air. These grooved pieces are connected to the window-casing by means of folding or textile end pieces *c c*, which not only prevent lateral drafts of air, but also assist in holding the deflector in position and allow the pieces C C to be brought up close to the window, to permit of the closing of the inside shutters when the deflector is used with windows having such. A board, D, sliding or fitting in the grooves of the pieces C C completes the lower deflector. This board acts directly to deflect the in-rushing currents of air.

When not in use, the board D can be removed and suspended from below the window-sill by means of pins and eyes or other suitable means.

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

1. The upper deflector A, in combination with the window casing or frame B, and the fixed bar *a*, to which the lower end of said deflector is fastened and arranged, so that the window-sash can move past or stand flush with it, substantially as and for the purpose set forth.

2. The combination, with the window casing or frame B, of the lower deflector, consisting of the pivoted grooved pieces C C, having folding or textile end pieces *c c*, and board D, substantially as and for the purpose set forth.

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

LORENZO DOW HARVEY.

Witnesses:

J. L. MARSH,
E. J. STOKES.