

C. PULLINGER.
Ventilating Window-Sash.

No. 142,941.

Patented September 16, 1873.

Fig. 1.

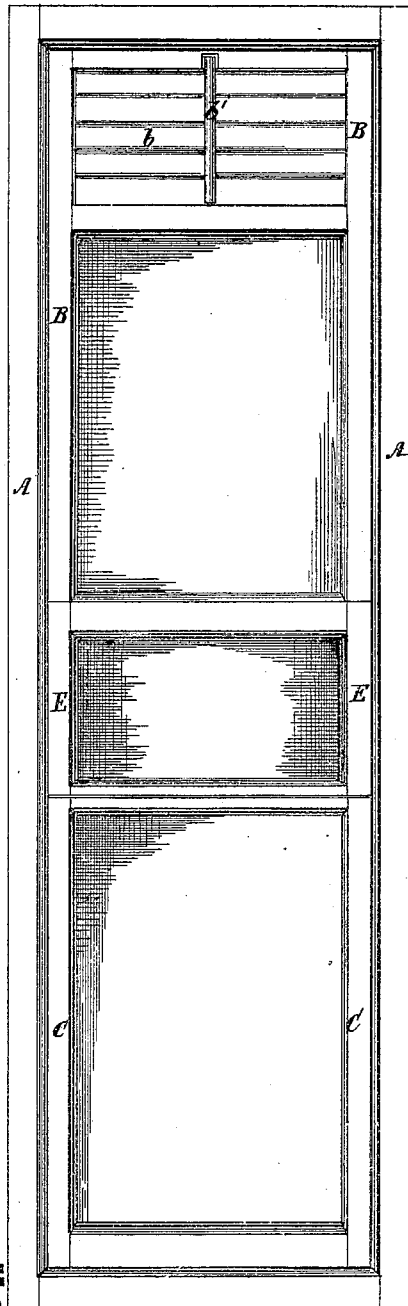
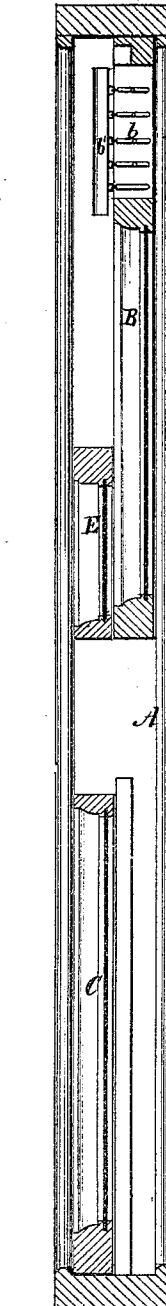


Fig. 2.



Witnesses:

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UNITED STATES PATENT OFFICE.

COLLIN PULLINGER, OF PHILADELPHIA, PENNSYLVANIA.

IMPROVEMENT IN VENTILATING WINDOW-SASHES.

Specification forming part of Letters Patent No. **142,941**, dated September 16, 1873; application filed August 13, 1873.

To all whom it may concern:

Be it known that I, COLLIN PULLINGER, of the city and county of Philadelphia and State of Pennsylvania, have invented a new and Improved Ventilating Window-Sash; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawing forming a part of this specification.

The invention relates to convenient modes of ventilating rooms through the windows without bringing to bear upon the persons therein a cold draft of air.

Figure 1 is a front elevation. Fig. 2 is a vertical transverse section.

A represents a window-frame, in which a top sash, B, having the slat blind-ventilator *b*, may slide or be permanently fixed. The slats are all attached to a common rod, *b'*, by which they may be placed obliquely, and made to exclude the light, and yet admit the air or allow its exit. C is a lower sliding sash separated from the sash B by an intermediate

small sash, E, which also slides over the top one.

The operation is as follows: By raising the small sash E over the sash B, and drawing down the sash B or opening the slat-ventilator *b*, the cold air will come in at the upper and force the warm air out at the lower aperture, a circulation being thus secured that insures a perfect ventilation without bringing a draft of cold air on persons in the room. The bottom and small sash may also be raised together in warm weather, and when a draft is not objected to.

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

The small sliding sash E, arranged between the upper and lower sash of a window, as and for the purpose described.

COLLIN PULLINGER.

Witnesses:

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