

(No Model.)

A. P. WHITE.
WINDOW VENTILATOR.

No. 462,368.

Patented Nov. 3, 1891.

Fig. 1.

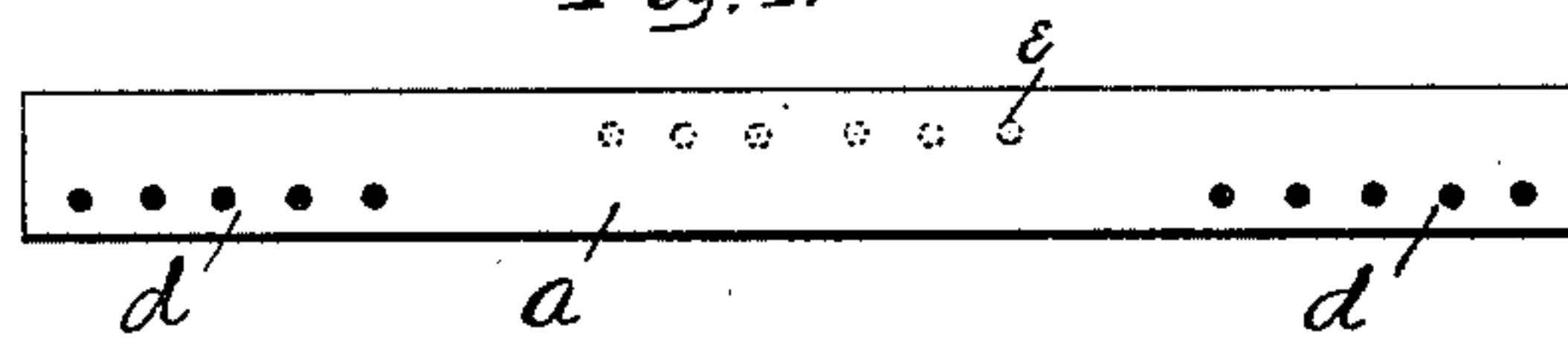


Fig. 2.

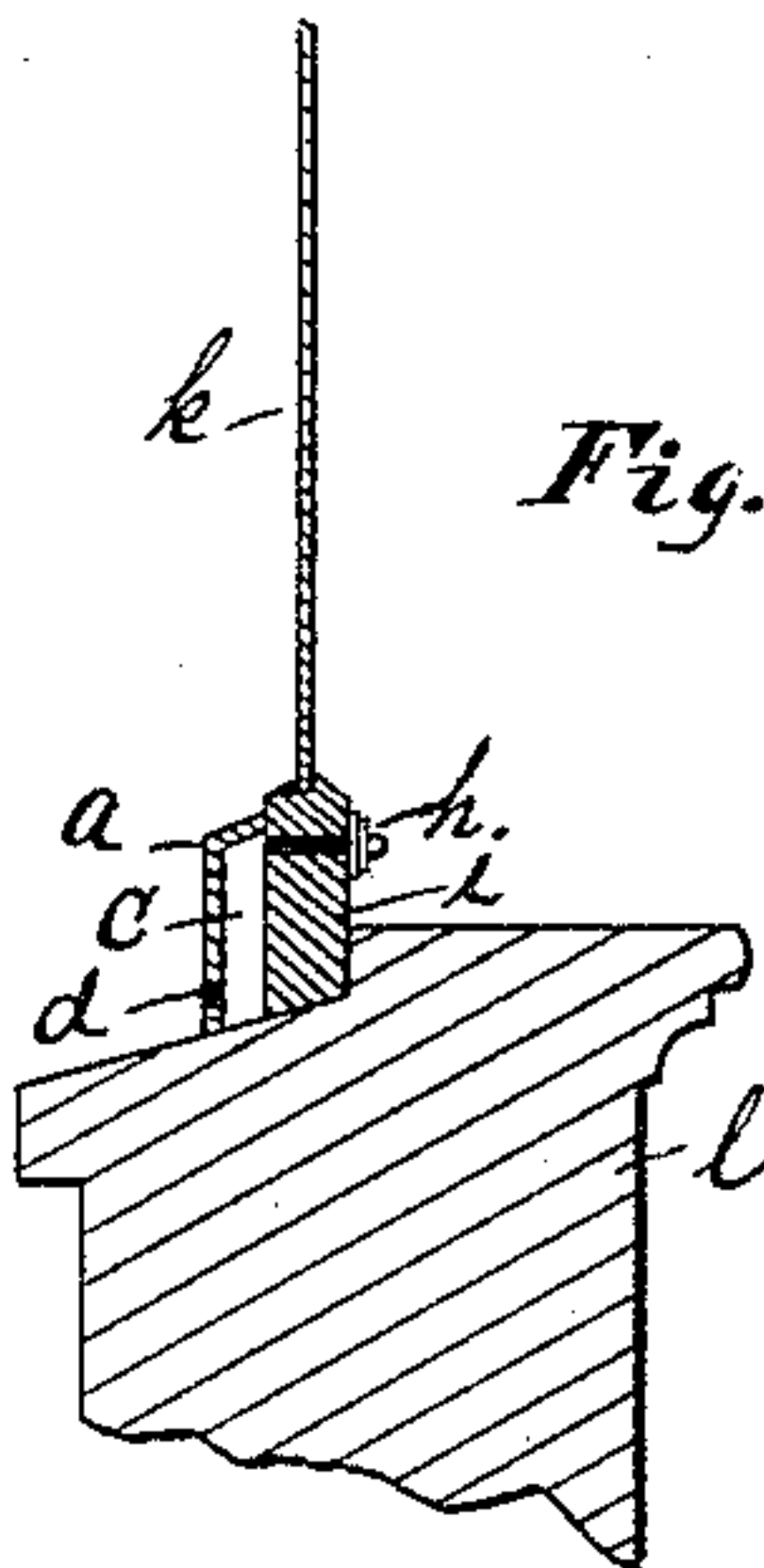
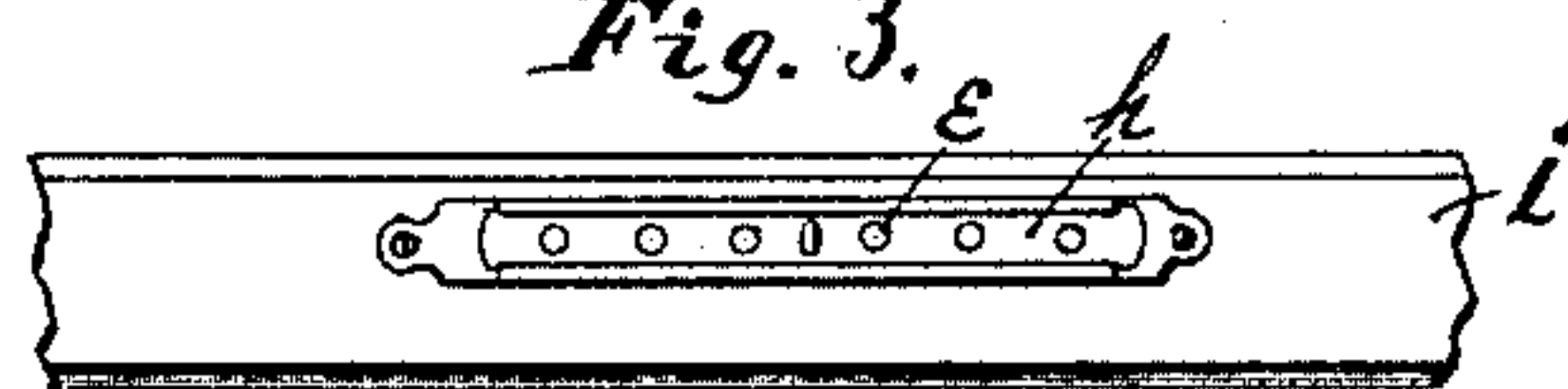


Fig. 3.



Witnesses

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ALBERT P. WHITE, OF NEW BEDFORD, MASSACHUSETTS, ASSIGNOR OF ONE-HALF TO JOHN H. LOWE, OF SAME PLACE.

WINDOW VENTILATOR.

SPECIFICATION forming part of Letters Patent No. 462,368, dated November 3, 1891.

Application filed May 21, 1890. Serial No. 352,659. (No model.)

To all whom it may concern:

Be it known that I, ALBERT P. WHITE, a citizen of the United States, residing at New Bedford, in the county of Bristol and State of Massachusetts, have invented a new and useful Improvement in Window Ventilators, of which the following is a specification.

The object of my invention is to produce a window ventilator which will admit the outside air, while it excludes to as great an extent as possible the dust which may be contained in it, and also driving rain.

In the accompanying drawings, in which similar letters refer to similar parts, Figure 1 represents a view of the outer side of my improved ventilator. Fig. 2 is a view, in cross-section, of a window-sill, a portion of the glass of the window, and the lower sash-rail of a window, and showing the principal features of my improved ventilator. Fig. 3 is a view of a portion of the inside of the window-sash provided with a slide to control the openings in said sash.

k represents the glass of the window. *i* represents the lower sash-rail of the window, and *l* represents the window-sill.

The part *a*, the outside of which is represented by Fig. 1, is secured to the outside of the sash-rail *i* in such a manner as to form an inclosed chamber *c* when the sash-rail rests on the window-sill, the bottom of said chamber being formed by the window-sill. The part *a* is provided in the lower edge of its end portions with the openings *d d*, leading into the lower portion of the inclosed chamber *c*. The central portion of the sash-rail *i* is provided with openings leading into the upper portion of the inclosed chamber *c*. The inside surface of the sash-rail *i* is provided with means to close the openings in the same, which in this instance is a slide *h*. (Represented in Fig. 3.) When the openings in the sash-rail are uncovered by the slide *h*, the outside air enters through the openings *d d* into the inclosed chamber *c*, where it is caused to

change its direction twice before entering the room and to eddy or become comparatively in a state of rest in the chamber *c*, which causes any dust which it may contain to drop to the bottom of said chamber, while the purified air passes through the openings in the sash-rail into the interior. The part *a* is made to extend the entire length of the outside of the sash-rail *i* in order to have the openings *d d* as far removed as possible from the openings in the sash-rail, and the area of the inclosed chamber *c* is many times larger than the sum of the area of the openings leading into it in order that the air contained in said chamber may be at all times comparatively in a state of rest. It will be observed that the construction of my improved ventilator is exceedingly simple and cheap and capable of being easily applied to all sorts of windows now in use. It will also be observed that it will entirely prevent rain from driving through it into the room, because of the changes in the direction of the air and the inclosed chamber being larger in area than the sum of the openings leading into it.

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

In combination with the lower sash-rail of a window and the sill of the frame thereof, the part *a*, secured to the outside of said sash-rail in such a manner as to form an inclosed chamber between it and said sash-rail and said window-sill, said part *a* having lateral openings in the lower edge of its end portions leading into the lower part of said inclosed chamber, said sash-rail having in its central portion lateral openings leading into the upper portion of said inclosed chamber, and means to close said openings in said sash-rail, all as shown and described.

ALBERT P. WHITE.

Witnesses:

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