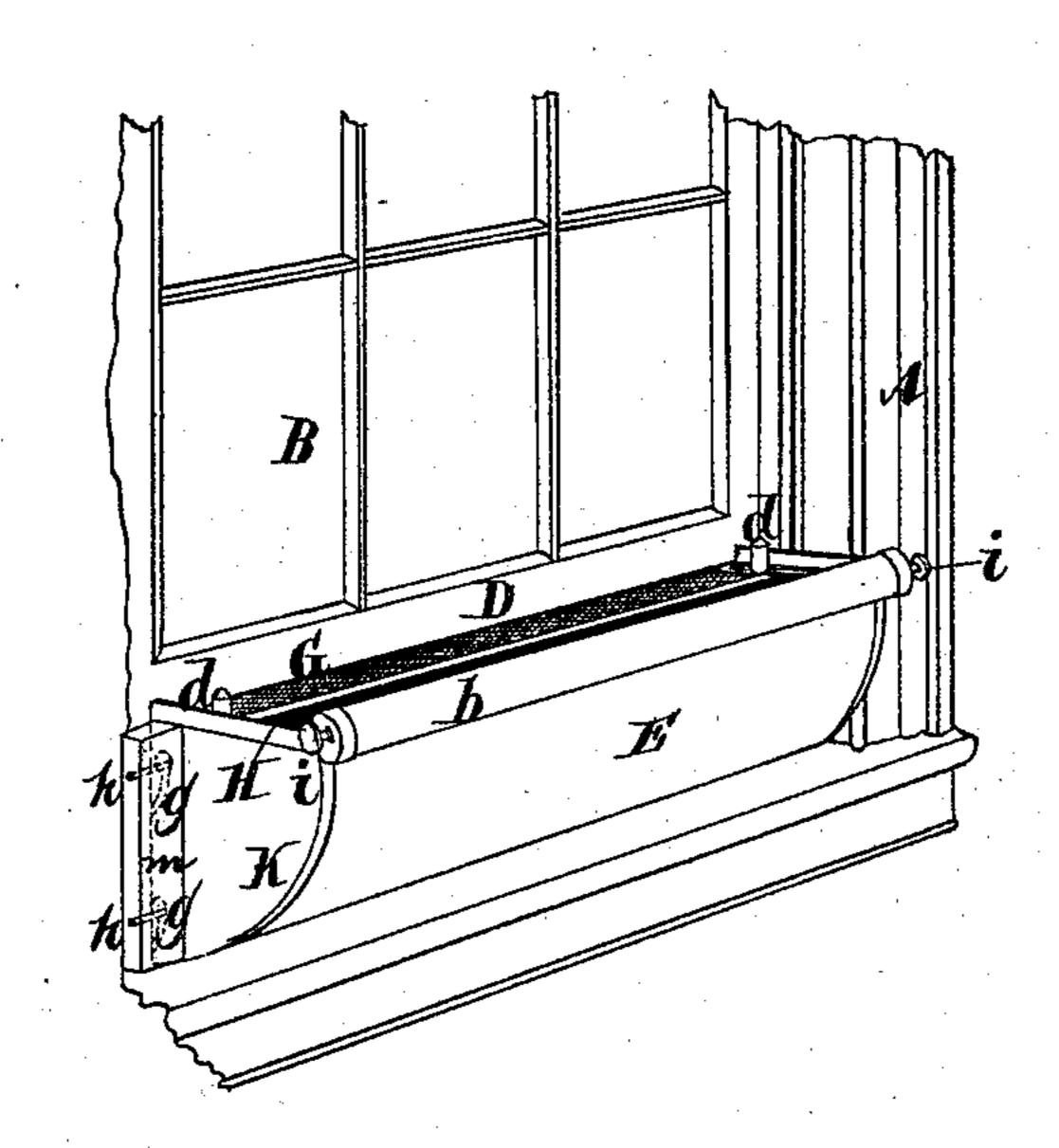
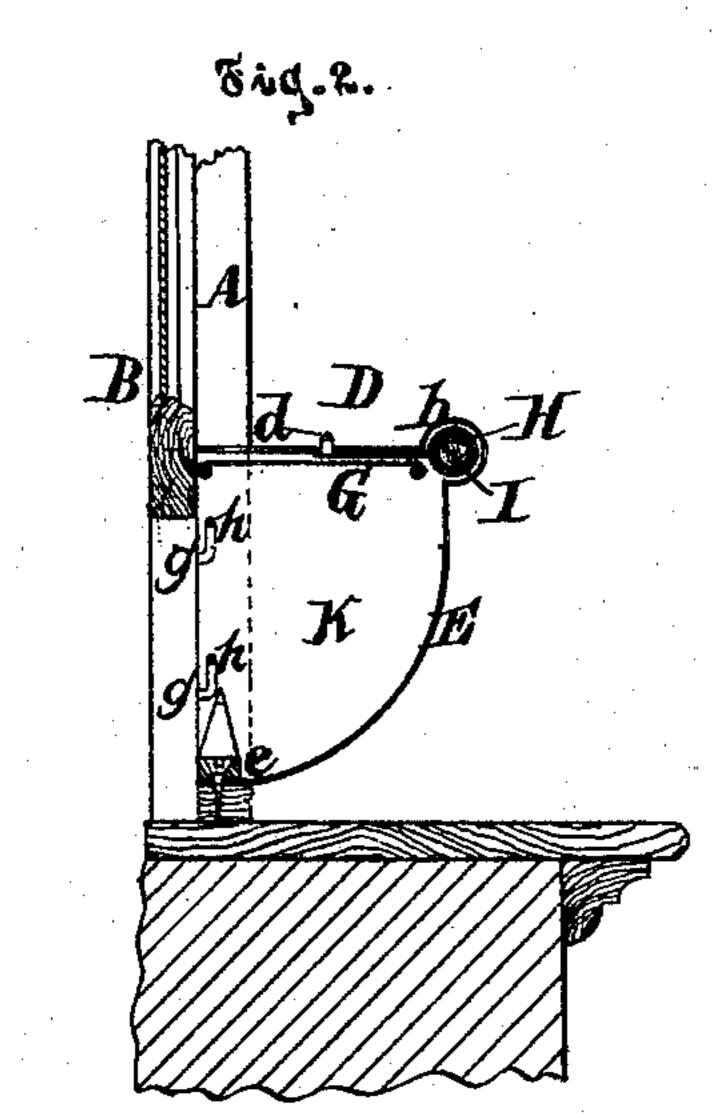
T. W. BRACHER. VENTILATOR.

No. 171,345.

Patented Dec. 21, 1875.

Fig.1.





Mitnesses. Atto Aufeland Chase. Wahlers.

Inventor.

Thomas W. Bracher

Van Santvoord x Hauft.

Attr.

UNITED STATES PATENT OFFICE.

THOMAS W. BRACHER, OF NEW YORK, N. Y.

IMPROVEMENT IN VENTILATORS.

Specification forming part of Letters Patent No. 171,345, dated December 21, 1875; application filed September 23, 1875.

To all whom it may concern:

sary.

Be it known that I, THOMAS W. BRACHER, have invented a new and useful Improvement in Ventilators, which improvement is fully set forth in the following specification, reference being had to the accompanying drawing, in which—

Figure 1 represents a perspective view, showing my improvement applied to a window. Fig. 2 is a cross-section thereof.

Similar letters indicate corresponding parts. My invention relates to certain improvements in ventilators, and particularly those designed to be placed in windows.

My invention consists of a novel combination and arrangements of parts, which will be fully hereinafter described, and specifically pointed out in the claim, a preliminary description, therefore, being deemed unneces-

In the drawing, the letter A designates a window-frame, in which is fitted a sash, B, which, in the example shown, is partly raised, in order to permit of a circulation of air to and from the apartment to which the window may belong. In Figs. 1 and 2 the deflectingpiece E has an upward curve, and, consequently, the air entering by the ventilator has an upward tendency. Across the upper part of the deflector E extends a plate, G, of gauze, (wire-gauze being preferred.) with which is combined a curtain, H, of linen, muslin, or other fibrous or textile fabric having a loose texture. Instead of wire-gauze, a perforated plate may be used, and the plate is fixed in its position, while the curtain H is arranged to be pulled off or on the same by being wound on a roller, I, which is placed within a casing, b, attached to the deflector E, and which has finger-pieces i exterior of this casing, by means of which it may be turned in order to wind up the curtain. The curtain H is unwound from the roller I by being pulled to the desired position, and to facilitate this operation study d are fastened to the stretcher of the curtain. The ends of the stretcher are guided in grooves formed in the end pieces K K of the ventilator.

It will be readily understood that when the curtain H is drawn over the wire-gauze or perforated plate G it tends to arrest the passage of dust through the ventilator, while but a very small hinderance of the ventilation had by the plate is thereby occasioned.

Another advantage of combining a textile curtain with the wire-gauze or perforated of the city, county, and State of New York, | plate consists in that a greater or less amount of ventilation may be had; also, that the ventilator may be regulated for different kinds of weather, according to whether a greater or less ventilation is desired.

The deflector E is intended to be made shorter than the average width of a window, and the spaces between the ends of the deflector and the window-frame are filled up by strips of wood m m. These strips are furnished with the deflector, and they are of such thickness that they will fill up the spaces between the ends of the deflector and the widest window-frame to which said deflector may be applied.

For narrow window-frames the filling-strips m can be readily trimmed down, and by these means my ventilator can be made to fit windows of different width.

The end pieces KK are provided with slots g g, whose direction is inward and upward, (best seen in Fig. 2,) and if pins h h are attached to the sides of the window-frame A, and the slots g g are adjusted thereon in a proper manner, the ventilator is thereby firmly held in place.

With my ventilator are also combined plates c, which are affixed to the lower part of the deflector E, and are provided with screwholes, in order that when it is desired to fasten the ventilator permanently to a window this purpose may be accomplished by screws driven through the plates into the window-sill.

I am aware of the patent to Lesperance, dated February 9, 1869, and numbered 86,766, and I disclaim the construction therein shown.

What I claim as new, and desire to secure

by Letters Patent, is—

A ventilator in which is combined a curved deflector, E, a perforated plate, G, extending across the upper part of the deflector, a curtain, H, a casing, b, and a roller, I, arranged in said casing, and having finger-pieces i, the whole being constructed and arranged for operation substantially as shown and described.

In testimony that I claim the foregoing I have hereunto set my hand and seal this 15th day of September, 1875.

T. W. BRACHER.

Witnesses:

W. HAUFF, E. F. KASTENHUBER.