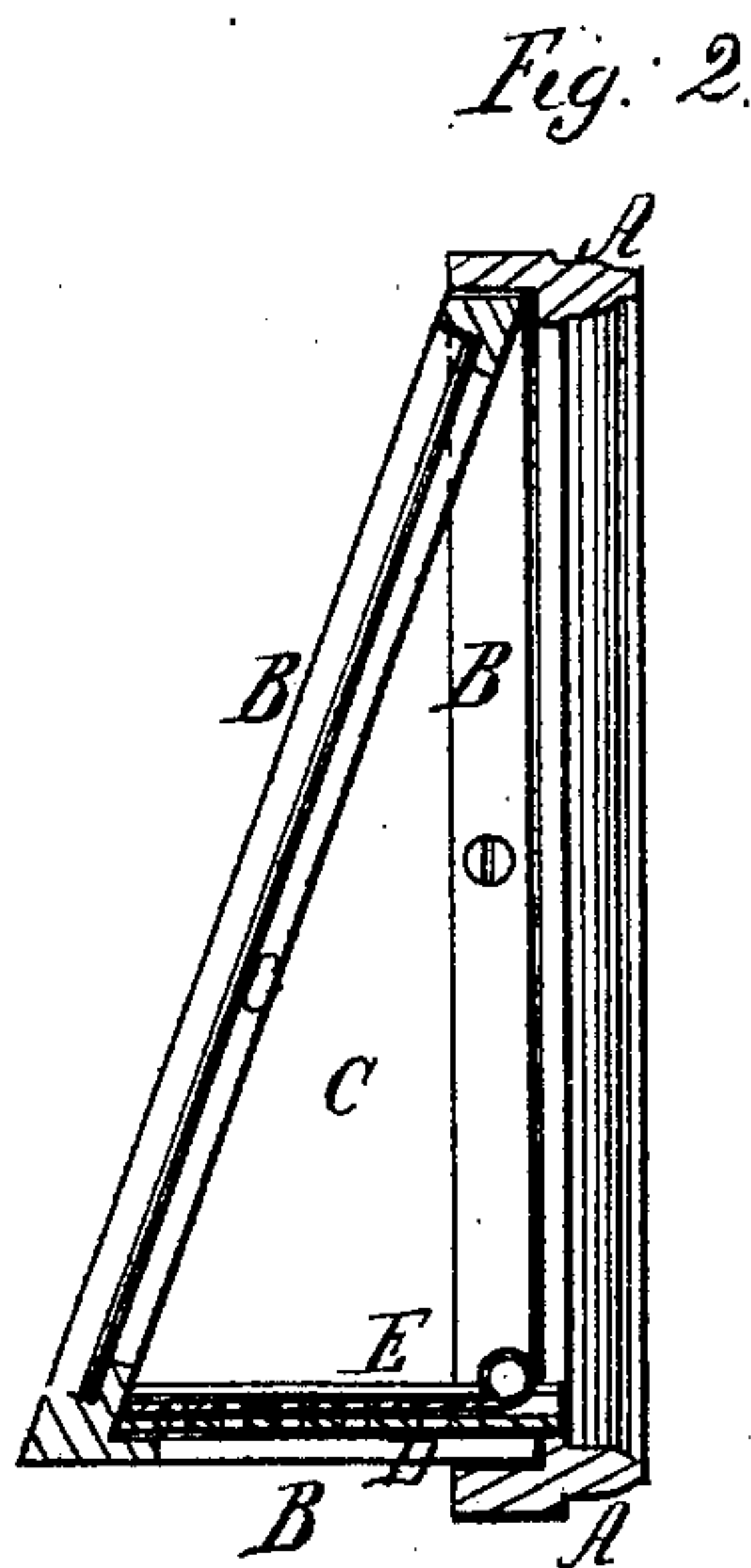
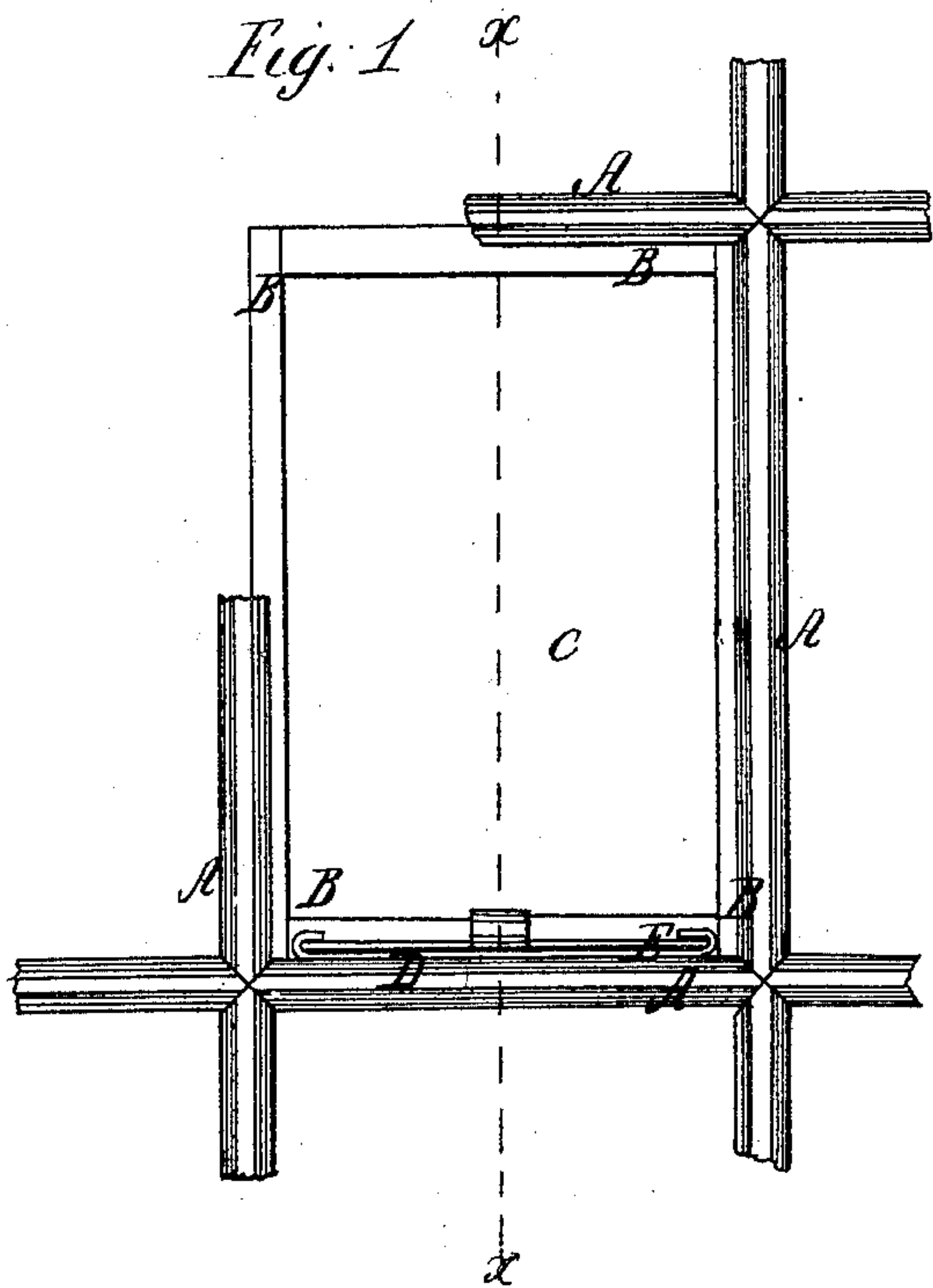


W. H. Cowl.

House Ventilator.

N^o 94,462.

Patented Aug. 31, 1869.



Witnesses:

A. W. Almqvist
Geo. F. Brooks

Inventor:

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PER

Attorneys.

United States Patent Office.

WILLIAM H. COWL, OF BROOKLYN, NEW YORK.

Letters Patent No. 94,462, dated August 31, 1869.

VENTILATOR FOR WINDOWS.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, WILLIAM H. COWL, of Brooklyn, in the county of Kings, and State of New York, have invented a new and improved Ventilator for Windows; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable those skilled in the art to make and use the same, reference being had to the accompanying drawings, forming part of this specification.

Figure 1 is an inside view of a portion of a window, to which my improved ventilator has been attached.

Figure 2 is a detail sectional view of the same, taken through the line *xx*, fig. 1.

Similar letters of reference indicate corresponding parts.

My invention has for its object to furnish an improved ventilator for the windows of buildings, railroad-cars, steamboats, &c., which shall be so constructed as not to exclude the light while allowing the fresh air to pass in freely, but in such a way as not to cause any unpleasant or injurious draughts; and

It consists in the construction and combination of the various parts of the ventilator, as hereinafter more fully described.

A represents the sash of a window, in the rabbet of which, in which the glass pane is usually secured, is placed the vertical part of the metallic frame B, which is secured in place by screws, screwing into the sash A.

The outer part of the frame B inclines downward and outward, so as to leave an opening in the lower part of the frame B, from four to eight inches wide, according to the size of the said frame.

In the front, and in the triangular side openings of the frame B, are fitted and secured panes of glass, C, so as to allow the light to pass through freely.

In the opening in the bottom of the frame B are detachably secured two finely-perforated plates, D

and E, one of which, D, is stationary, and the other, E, slides upon it, so that by adjusting the position of the sliding plate E, the perforations may be partially or wholly closed, to regulate the admission of air, as desired.

In the case of windows provided with outside blinds or shutters, the position of the ventilator may be reversed; that is to say, the inclined part of the ventilator may project inward and upward, the perforated plates being at the top of said ventilator.

But in the case of windows provided with inside blinds or shutters, the inclined part of the frame should project outward and downward, as first described.

In the case of sashes having large panes, only part of the pane may be removed, the upper or lower part of the frame B resting against the edge of said glass, and being secured to the sash in the manner hereinbefore described.

Having thus described my invention,

What I claim as new, and desire to secure by Letters Patent, is—

1. An improved ventilator for windows, formed by the combination of the metallic frame B, constructed as described, the glass panes C, stationary perforated plate D, and sliding perforated plate E, with each other, said parts being constructed and connected with the window-sash, substantially as herein shown and described, and for the purpose set forth.

2. Projecting one end of a glass window-pane outward or inward from the plane of the sash, for the purpose of obtaining an upward draught, substantially as herein shown and described.

The above specification of my invention signed by me, this 5th day of August, 1869.

WM. H. COWL.

Witnesses:

GEO. W. MABEE,
JAMES T. GRAHAM.