I. W. CANFIELD, Jr. & C. H. DEMAREST.

Ventilator.

No. 200,255. Patented Feb. 12, 1878.

Fig: 1.

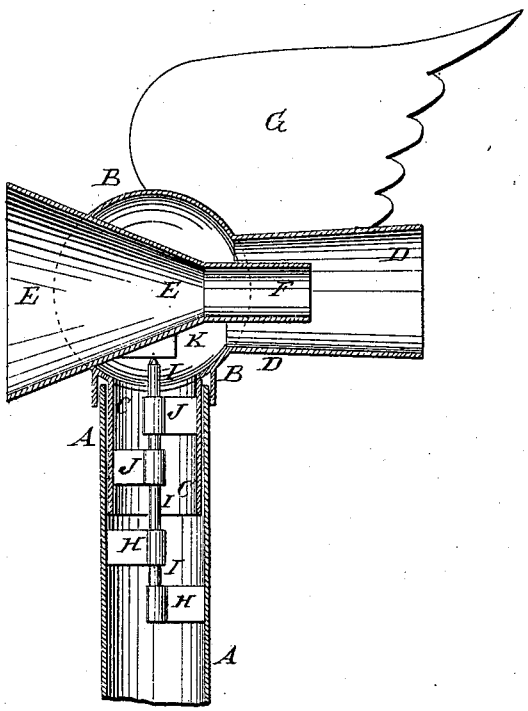
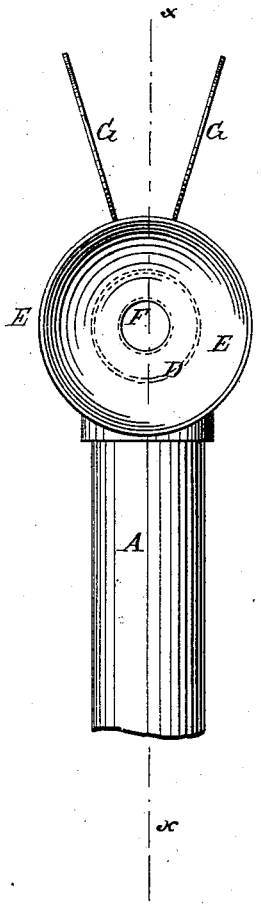



Fig: 2.




WITNESSES:

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# UNITED STATES PATENT OFFICE.

ISAAC W. CANFIELD, JR., AND CANTINE H. DEMAREST, OF NYACK, N. Y.

## IMPROVEMENT IN VENTILATORS.

Specification forming part of Letters Patent No. **200,255**, dated February 12, 1878; application filed January 17, 1878.

*To all whom it may concern:*

Be it known that we, ISAAC W. CANFIELD, Jr., and CANTINE H. DEMAREST, of Nyack, in the county of Rockland and State of New York, have invented a new and Improved Ventilator, of which the following is a specification:

Figure 1 is a vertical longitudinal section of our improved ventilator, taken through the line *x x*, Fig. 2. Fig. 2 is a front view of the same.

Similar letters of reference indicate corresponding parts.

The object of this invention is to furnish an improved device to be attached to the tops of ventilating and chimney flues of houses, vessels, railway-cars, &c., which shall be so constructed that the action of the wind will induce an upward draft through the flue, and which shall be simple in construction and not liable to get out of order.

The invention consists in the combination of the lower pipe, the globular shell, the rear pipe, the conical pipe, the inner rear pipe, the wing or wings, and the pivot with each other and the pipe or flue, as hereinafter fully described.

A is a pipe attached to the upper end of the flue, or which may be the upper end of the flue. B is a globular shell, which has openings in its lower, front, and rear sides. In the opening in the lower side of the shell B is secured the end of a short pipe, C, which fits into the upper end of the pipe A. In the opening in the rear side of the shell B is secured the end of a short pipe, D. In the opening in the forward side of the shell B is secured a conical or flaring pipe, E, the larger end of which projects beyond the said shell B, and its smaller end extends nearly to its rear side. To the smaller end of the conical pipe E is attached the end of a small pipe, F, which projects into the inner part of the pipe D. To the upper part of the shell B and pipe D are attached one or two wings, G, to serve as a vane to keep the conical pipe E turned toward the wind.

By this construction, as the wind blows through the pipes E F into and through the pipe D, it induces an upward draft through the pipe A, shell B, and pipe D.

To arms H, attached to the pipe A, is attached a pivot, I, which passes through guide-arms J, attached to the pipe C, and upon its upper end rests a pivot-block, K, attached to the lower side of the conical pipe E.

Having thus fully described our invention, we claim as new and desire to secure by Letters Patent—

The combination of the lower pipe C, the globular shell B, the rear pipe D, the conical pipe E, the inner rear pipe F, the wing or wings G, and the pivot I with each other and the pipe or flue A, substantially as herein shown and described.

ISAAC WATTS CANFIELD, JR.
CANTINE HASBROUCK DEMAREST.

Witnesses:
PHILIP MOELLER,
CHARLES R. CHRISTY.