

A. HAY & J. De VAUSNEY.

VENTILATORS FOR FLUES.

No. 183,498.

Patented Oct. 24, 1876.

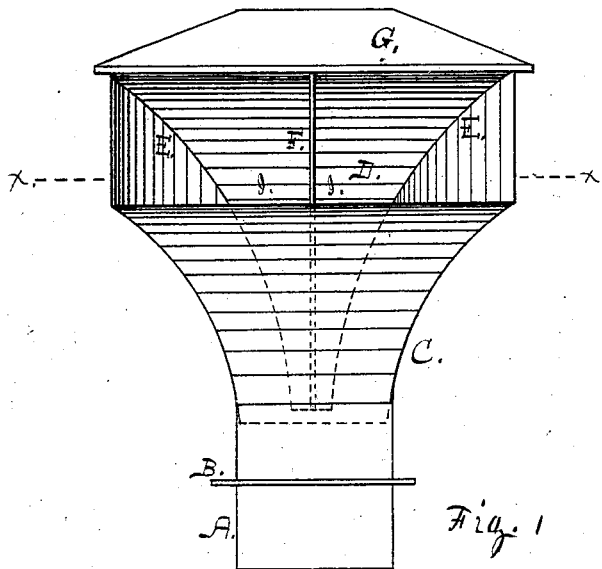


Fig. 1

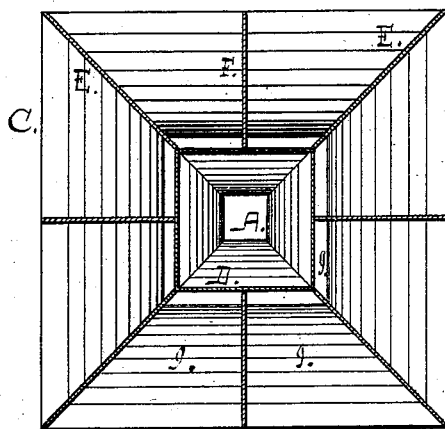


Fig. 2

witness

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# UNITED STATES PATENT OFFICE.

ADAM HAY AND JACOB DE VAUSNEY, OF NEWARK, NEW JERSEY.

## IMPROVEMENT IN VENTILATORS FOR FLUES.

Specification forming part of Letters Patent No. **183,498**, dated October 24, 1876; application filed September 18, 1876.

*To all whom it may concern:*

Be it known that we, ADAM HAY and JACOB DE VAUSNEY, of Newark, in the county of Essex and State of New Jersey, have invented a certain Improvement in Ventilators for Flues, of which the following is a specification:

Our invention consists in constructing a series of tubes to connect with the outside air, and the inside of a flue, so that the air from without will be forced down the flue into any apartment below, having a communication therewith, for the purpose of ventilation.

Figure 1 is a side elevation. Fig. 2 is a cross-section on a line of *x x*.

We construct a ventilator in size and form to fit the top of a flue where it is to be used. The base A of this ventilator is made to fit inside of the flue, passing down as far as the flange B. Above this base is added a concave funnel, C, and inside of this funnel is placed another, D, similarly shaped, and the two are connected by the corner ribs E. These ribs or partitions, besides serving to unite the two funnel forms, also greatly assist in catching the currents of air from all quarters, compelling their descent into the

flue, and thence into the apartment where it is needed. But for these divisions the air would blow past the orifice between the sections C and D, and in many instances would not be driven down into the flue. The concave form of the parts C and D very materially assists in directing the currents of air striking the top below the cap G into the flue. The cap projecting over the tubes I, besides covering and protecting the whole, assists in catching the currents of air, and turning them down the tubes into the flue.

Having thus described our invention, what we claim, and desire to secure by Letters Patent of the United States, is—

The ventilator constructed with the double concave funnel shapes C and D, forming the orifice between, divided by the rib partitions E and F into the tubes I, and having the cap G and base A, substantially as and for the purposes specified.

ADAM HAY.  
JACOB DE VAUSNEY.

Witnesses:

HORACE HARRIS,  
JOHN C. TUNBRIDGE.