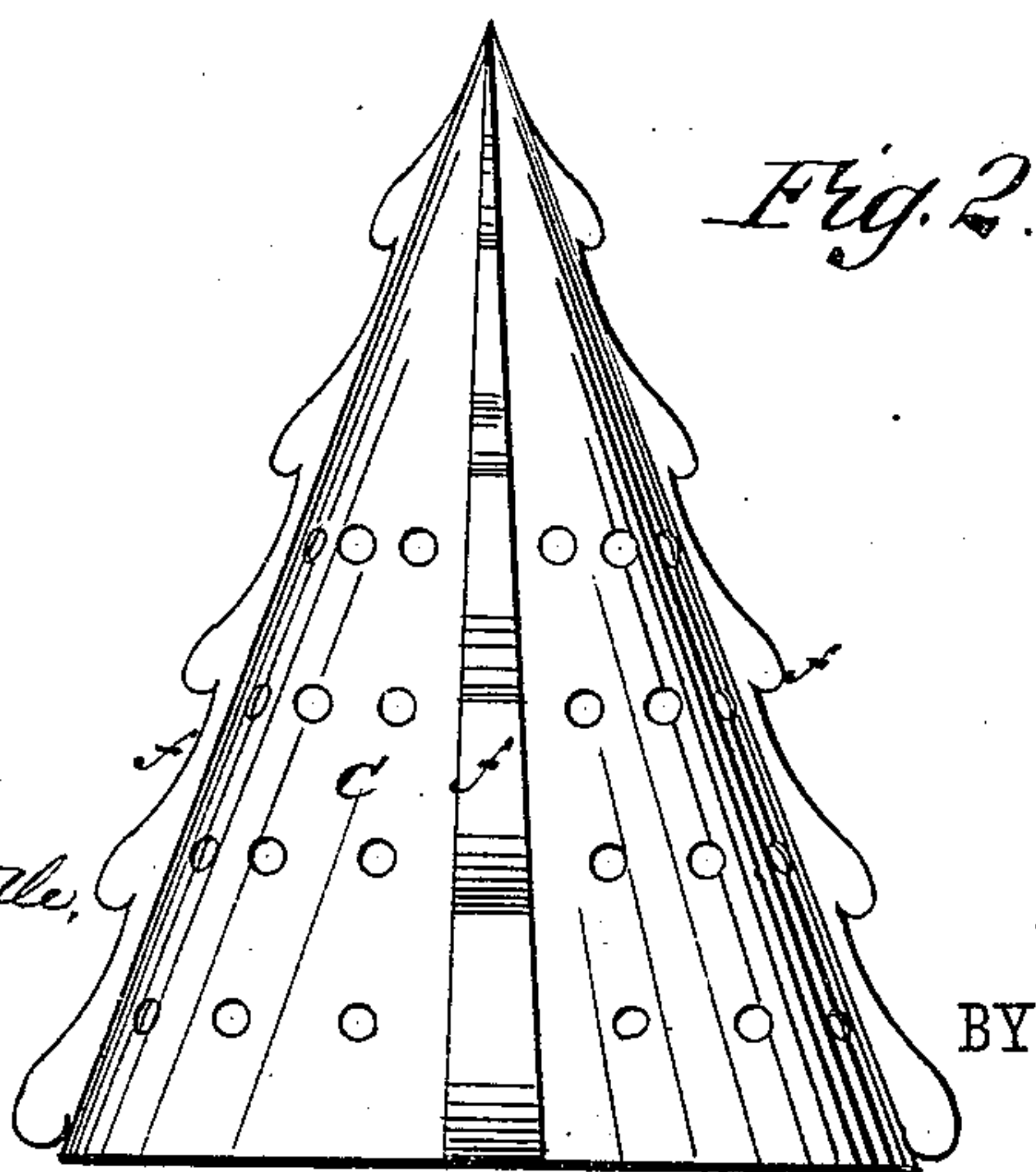
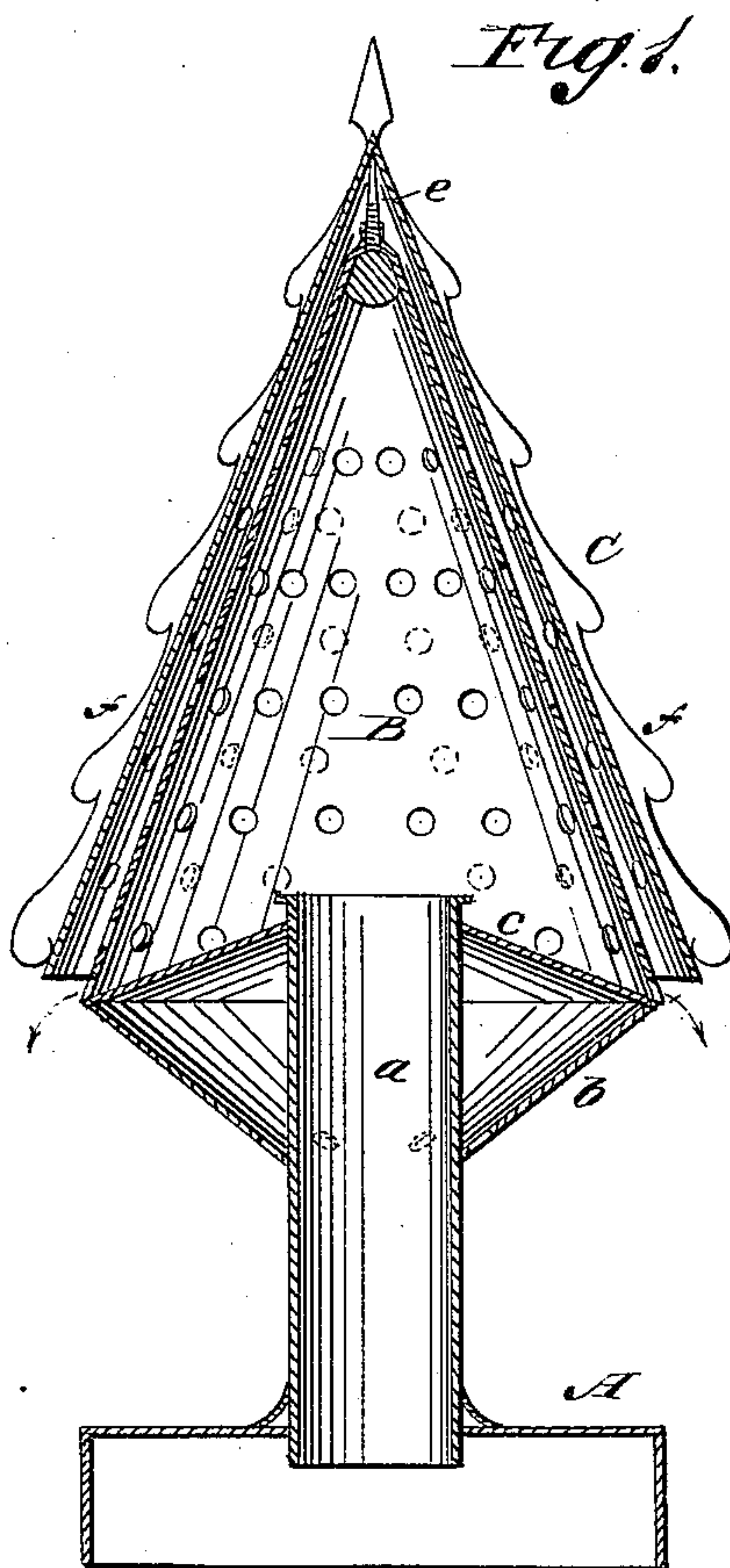


(No Model.)

W. D. BARTLETT.
CHIMNEY CAP AND VENTILATOR.

No. 251,159.

Patented Dec. 20, 1881.



WITNESSES:
Francis McArdle,
C. Sedgwick

INVENTOR:
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UNITED STATES PATENT OFFICE.

WILLIAM D. BARTLETT, OF AMESBURY, MASSACHUSETTS.

CHIMNEY-CAP AND VENTILATOR.

SPECIFICATION forming part of Letters Patent No. 251,159, dated December 20, 1881.

Application filed August 6, 1881. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM D. BARTLETT, of Amesbury, in the county of Essex and State of Massachusetts, have invented a new and
5 Improved Chimney-Cap and Ventilator, of which the following is a full, clear, and exact description.

My present invention is an improvement on the chimney-cap shown in Letters Patent granted to me September 21, 1880, No. 232,434, and
10 has for its object to render the operation of the cap more perfect.

The invention consists in wing-strips combined with a suspended hood for the purpose
15 of diverting or breaking up the gusts of wind and preventing back eddies, as explained more particularly hereinafter.

In the accompanying drawings, Figure 1 is a vertical section of my improved chimney-cap and ventilator. Fig. 2 is a side elevation of the suspension-hood.

Similar letters of reference indicate corresponding parts.

In the drawings, the base A, pipe *a*, fixed
25 conical cap or housing B, and the suspended hood C are similar to the same parts shown in the aforesaid Letters Patent, except in particulars hereinafter described.

Near the upper end of the flue-pipe *a* is fixed
30 an inclined ring or annular flange, *c*, that extends to and is connected with the lower edge of the fixed cone B, so as to form a closed bottom thereto.

Beneath the bottom *c*, and fixed on pipe *a*,
35 is a ring, *b*, inclined in the opposite direction, and serving as an additional support and brace for the cone B. The bottom *c* receives any water and debris that enter the perforations

of cone B, and directs the same out at the lower perforations. There will also be perforations
40 in ring *b* to allow escape of water that may get beneath bottom *c*.

In the apex of cone B is fixed a pointed spindle, *e*, on which the suspended hood C is hung.

Upon the outer surface of hood C are the
45 wings *f*, consisting of strips of sheet or cast metal, fixed in place and extending from the point of the hood to the lower edge. There are preferably four of the wings *f*, of the ornamental form shown, and they project outward
50 from the surface of the hood, so as to offer resistance to the wind and eddies.

In operation under a high wind the hood C is forced against the fixed cone B and the perforations of the inner cone thus closed, as
55 described in my previous Letters Patent. The vacuum tendency at the leeward side of the cone insures a suction or draft through the cap, and the effect of the wings *f* is to increase such
60 action, and also remove the vortex or meeting-point of the two currents farther from the cap, so that eddies shall not lessen the draft.

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

1. The suspended and perforated hood C, 65 provided with wings *f*, in combination with the fixed and perforated cone B, substantially as shown and described.

2. The wing-strips *f*, combined with the suspended hood C of a chimney-cap or ventila-
70 tor, substantially as and for the purposes set forth.

WILLIAM DEARBORN BARTLETT.

Witnesses:

GEO. W. CATE,

JOHN W. BARTLETT.