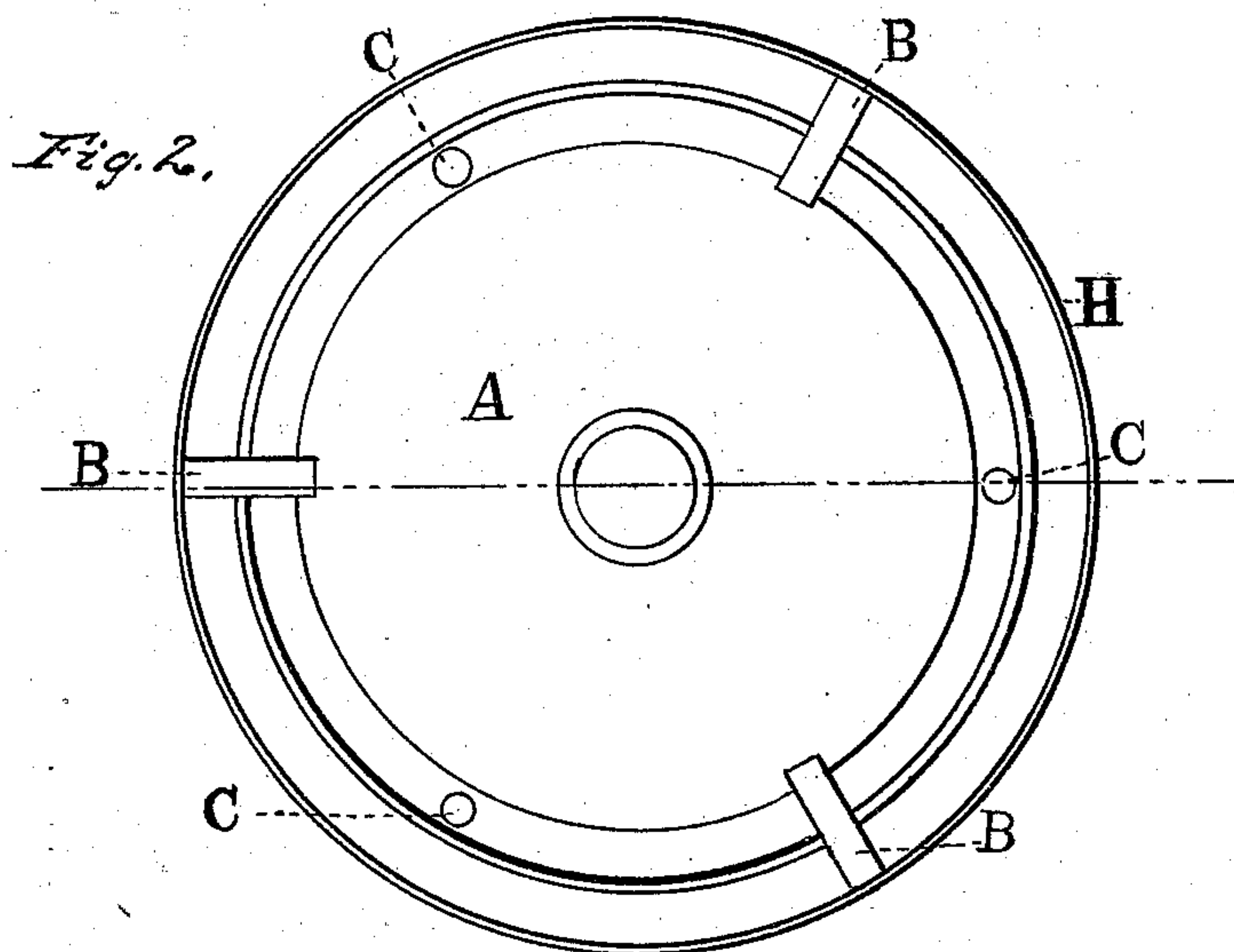
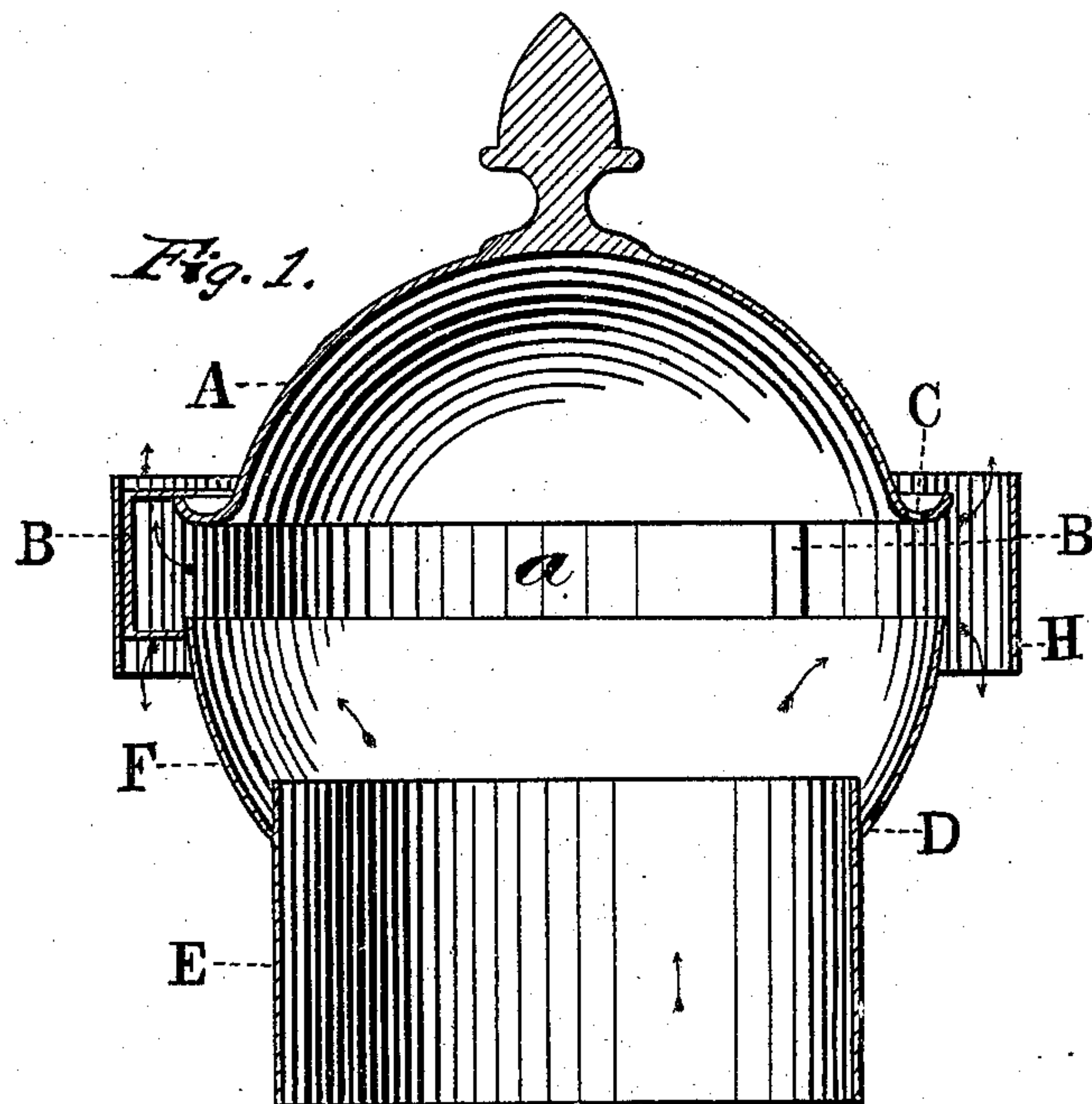


A. J. ROBINSON.
VENTILATOR.

No. 174,304.

Patented Feb. 29, 1876.



Witnesses

George H. Lurvey.
E. P. Bates

Inventor,

Andrew J. Robinson.
Gilmore, Smith & Co.
Attorneys.

UNITED STATES PATENT OFFICE.

ANDREW J. ROBINSON, OF TROY, NEW YORK.

IMPROVEMENT IN VENTILATORS.

Specification forming part of Letters Patent No. **174,304**, dated February 29, 1876; application filed February 5, 1876.

To all whom it may concern:

Be it known that I, ANDREW J. ROBINSON, of Troy, in the county of Rensselaer and State of New York, have invented a new and valuable Improvement in Ventilators; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a representation of a vertical central section of my ventilator, and Fig. 2 is a plan view of the same.

This invention has relation to ventilators for buildings; and the nature of my invention consists in a novel construction of the cap or upper end of the ventilator-shaft, whereby currents of air are prevented from diving down this shaft, and whereby water falling upon the dome thereof is carried off upon its outside, as will be understood from the above description.

In the annexed drawings, E designates the shaft of the ventilator, which may be of any suitable diameter; and F designates a segment of a sphere, the lower end of which is permanently secured to the shaft E, a short distance below the upper end thereof, as shown in Fig. 1, and at D openings are made for the escape of water on the outside of the shaft E. A designates a dome, between

which and the upper end of the shaft E is a horizontal space, *a*, for the escape of vitiated air from the building. The lower edge of the dome A is turned up, so as to form an annular gutter, which is perforated at C for allowing the escape of water, which falls into the channel around the upper end of the shaft E, and escapes at D. The upturned portion of the dome A will deflect or change the down currents of air. Surrounding the space *a* is a belt, H, which serves as a shield to prevent currents of external air from striking through the space *a*. This annular shield is of greater diameter than the diameter of the base of the dome A, for the purpose of allowing a free escape of air from the shaft E. The shield H is secured by short arms B, which unite the portions A F to it.

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

In combination with the shaft E and segment F, the shield H and the dome A, with its perforated upturned base, substantially as described.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

ANDREW J. ROBINSON.

Witnesses:

E. C. REYNOLDS,
SIMEON BIRDSALL.