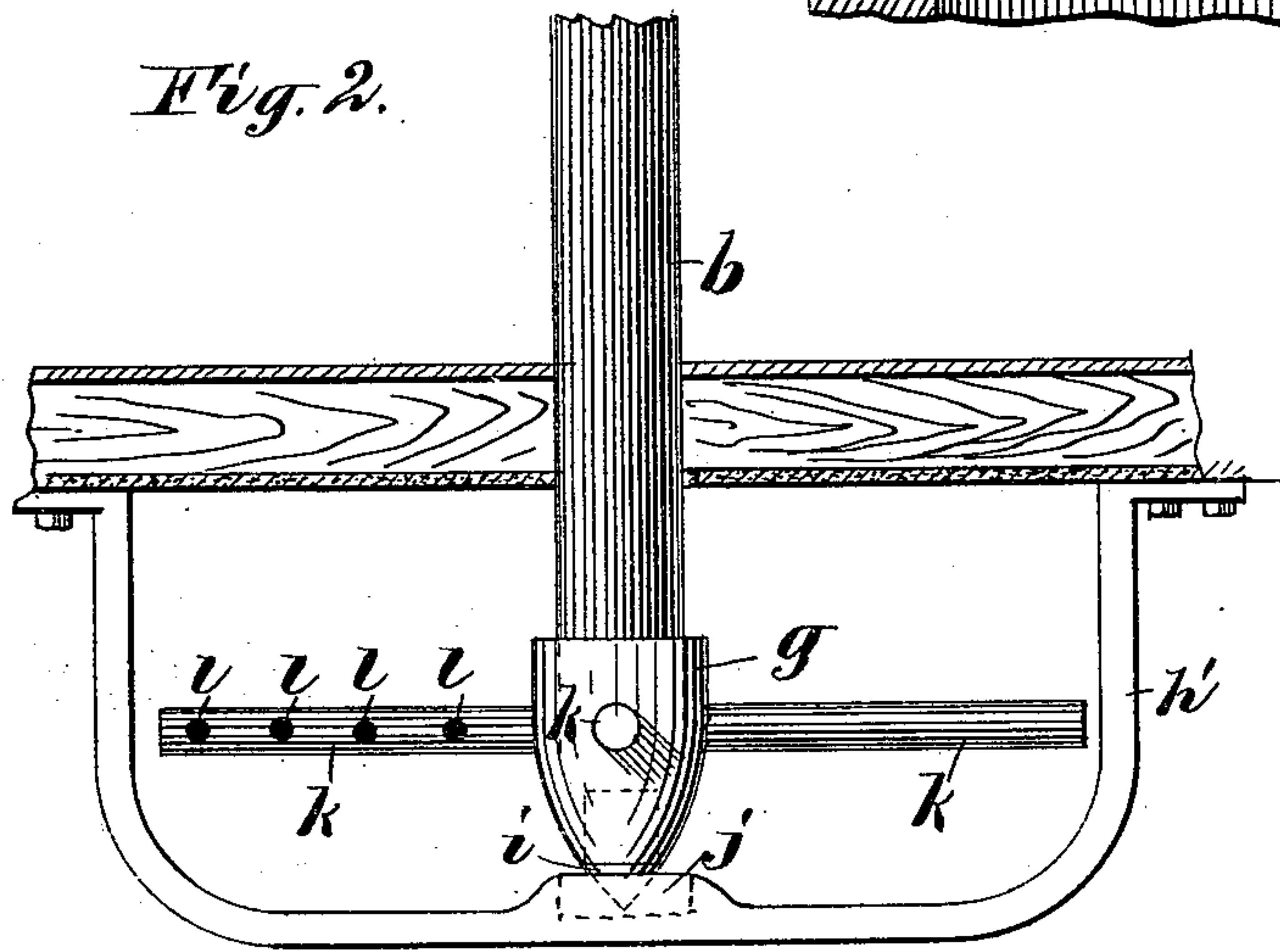
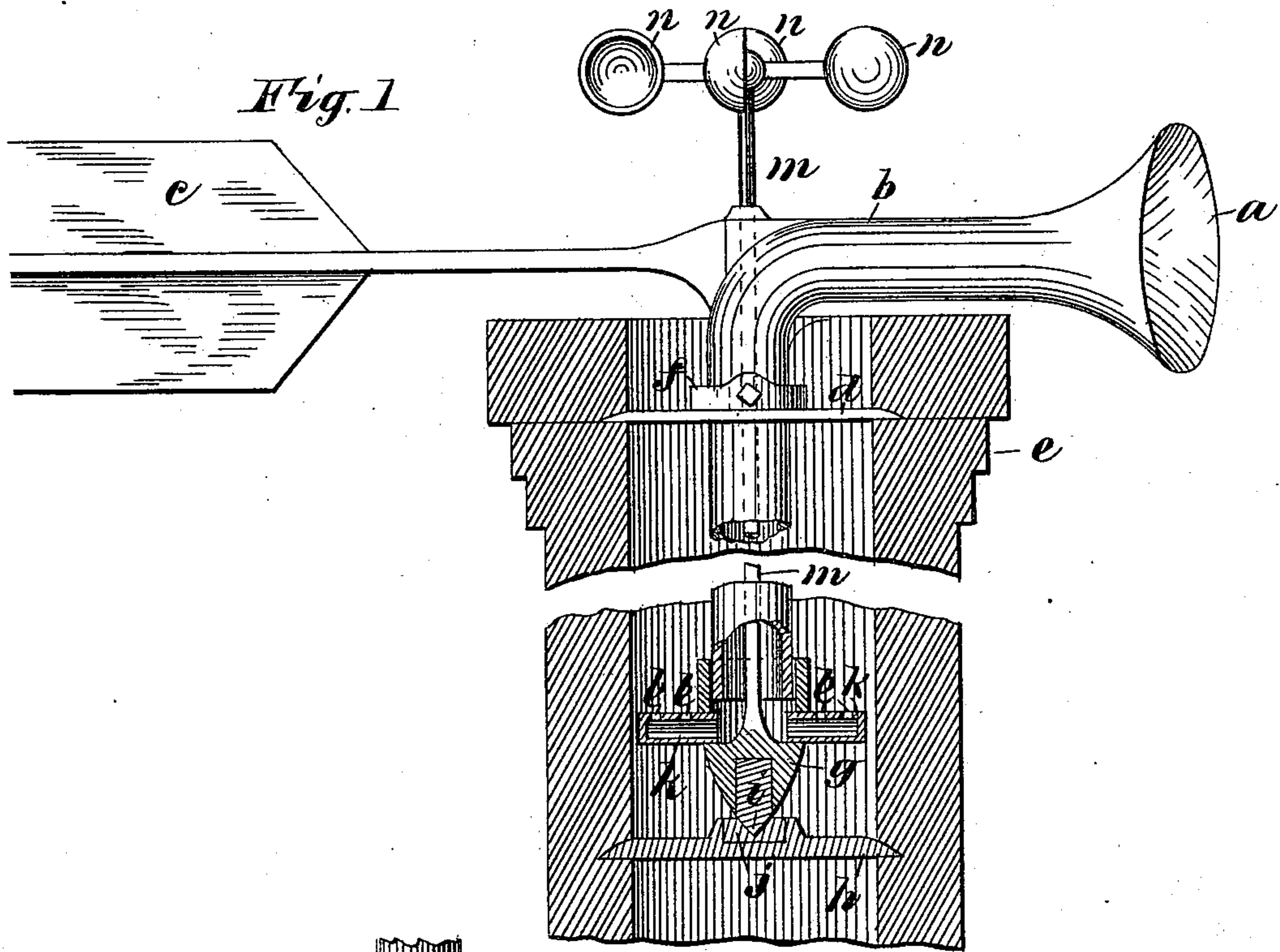


(No Model.)

A. DAUB.
VENTILATOR.

No. 332,059.

Patented Dec. 8, 1885.



Witnesses
G. M. Gridley
M. J. Schinnerer.

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UNITED STATES PATENT OFFICE.

ADOLPH DAUB, OF MILWAUKEE, WISCONSIN.

VENTILATOR.

SPECIFICATION forming part of Letters Patent No. 332,059, dated December 8, 1885.

Application filed May 22, 1885. Serial No. 166,337. (No model.)

To all whom it may concern:

Be it known that I, ADOLPH DAUB, of Milwaukee, in the county of Milwaukee and State of Wisconsin, have invented new and useful Improvements in Automatic Ventilators; and I do hereby declare the following to be a full, clear, and exact description of said invention, reference being had to the accompanying drawings, and to the letters or figures of reference marked thereon, which form a part of this specification.

My invention, to be hereinafter distinctly claimed, relates to an automatic ventilator for chimneys or rooms so situated that operative mechanism is needed to superinduce a current of air for the purpose of ventilation.

In the accompanying drawings, Figure 1 is a section of a chimney having my device attached, a part of the device being also in section. Fig. 2 is a detail showing a part of the device and a method of supporting it in a room.

The same letters refer to like parts in both views.

The funnel *a*, open at its larger end toward the wind, is located above the top of the chimney or other locality to be ventilated, and a tube, *b*, forming the continuation of the funnel *a*, extends rearward a short distance, and is then bent down at right angles, so as to extend downwardly into the chimney or room to be ventilated. Rigidly attached to the horizontal part of this tube, and extending rearwardly therefrom, is a vane, *c*, adapted to hold the mouth of the funnel to the wind. The funnel, tube, and vane are supported upon and rotate freely horizontally in the bracket *d*, rigid to the chimney *e*. A collar, *f*, is affixed to the tube *b* above the bracket *d*, whereby the tube is supported on the bracket, as described.

At the lower end of the tube *b*, and within the chimney or room to be ventilated, is the upturned terminal cap *g*, the sides of which receive and inclose the end of the tube *b*, and permit of a free but air-tight rotary motion therein. This cap *g* is supported and rotates freely on its downwardly-extending apex on the bracket *h*, which bracket is rigidly attached to the chimney *e*. To insure a free ro-

tary motion of this cap *g* on the bracket *h*, the apex of the cap is provided with a glass point, *i*, and a corresponding glass socket, *j*, is inserted in the bracket *h*, for the reception of the point *i*. This cap *g* is also provided with two or more laterally-extending tubular arms, *k k*, which arms are closed at their outer ends, but are provided with a series of apertures, *l l l*, along the respective sides, for the discharge of air therethrough.

Rigid to the cap is the centrally-located upwardly-extending stem *m*, passing up within and out through the side of the tube *b* at its angle through an aperture made therefor, and carrying rigid on its upper end two or more wind-catching cups, *n n*. These cups *n n* are affixed to horizontal arms rigid to said stem *m*, and are so placed that, as they revolve with and about the stem *m*, they will each in succession be open to take the wind on the same side at the same point of their revolution, and will also expose their rounded exterior to the wind in the opposite part of their circuit. These cups *n n* are intended as and for the fans of a wind-engine, to catch the force of the wind and compel the rotation of the stem *m* and *g*, and the ordinary oblique fans of a windmill placed horizontally may be used instead of these cups, if desired.

In Fig. 2 the cap *g* is shown as supported within a room by and upon a bent bracket, *h'*, affixed to the ceiling of the room.

When my device is used for ventilating a tall chimney, it is desirable to have the cap *g* and parts thereto attached as low in the chimney as possible, to secure a current or agitation of the air as near the bottom as may be.

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

1. The automatic ventilator, consisting of the funnel *a*, the bent tube *b*, continuing rearwardly and downwardly from the funnel, and the vane *c*, rigid to the tube *b*, in combination with the upturned cap *g*, provided with the perforated tubular arms *k k*, the upwardly-extending centrally-located stem *m*, rigid to cap *g*, and the cup-fans *n n*, rigid to stem *m*, substantially as set forth.

2. In automatic ventilators, the funnel *a*,

tube *b*, and vane *c*, rigid to each other and supported on bracket *d*, in combination with the upturned cap *g*, adapted to receive and rotate around the end of the tube *b*, the tubular perforated arms *k k*, and a supporting-bracket for cap *g*, substantially as and for the purpose set forth.

In testimony whereof I affix my signature in presence of two witnesses.

ADOLPH DAUB.

Witnesses:

C. T. BENEDICT,
M. J. SCHINNER.