

(No Model.)

C. MÖHLMAYER.
VENTILATOR.

No. 412,973.

Patented Oct. 15, 1889.

Fig. 1.

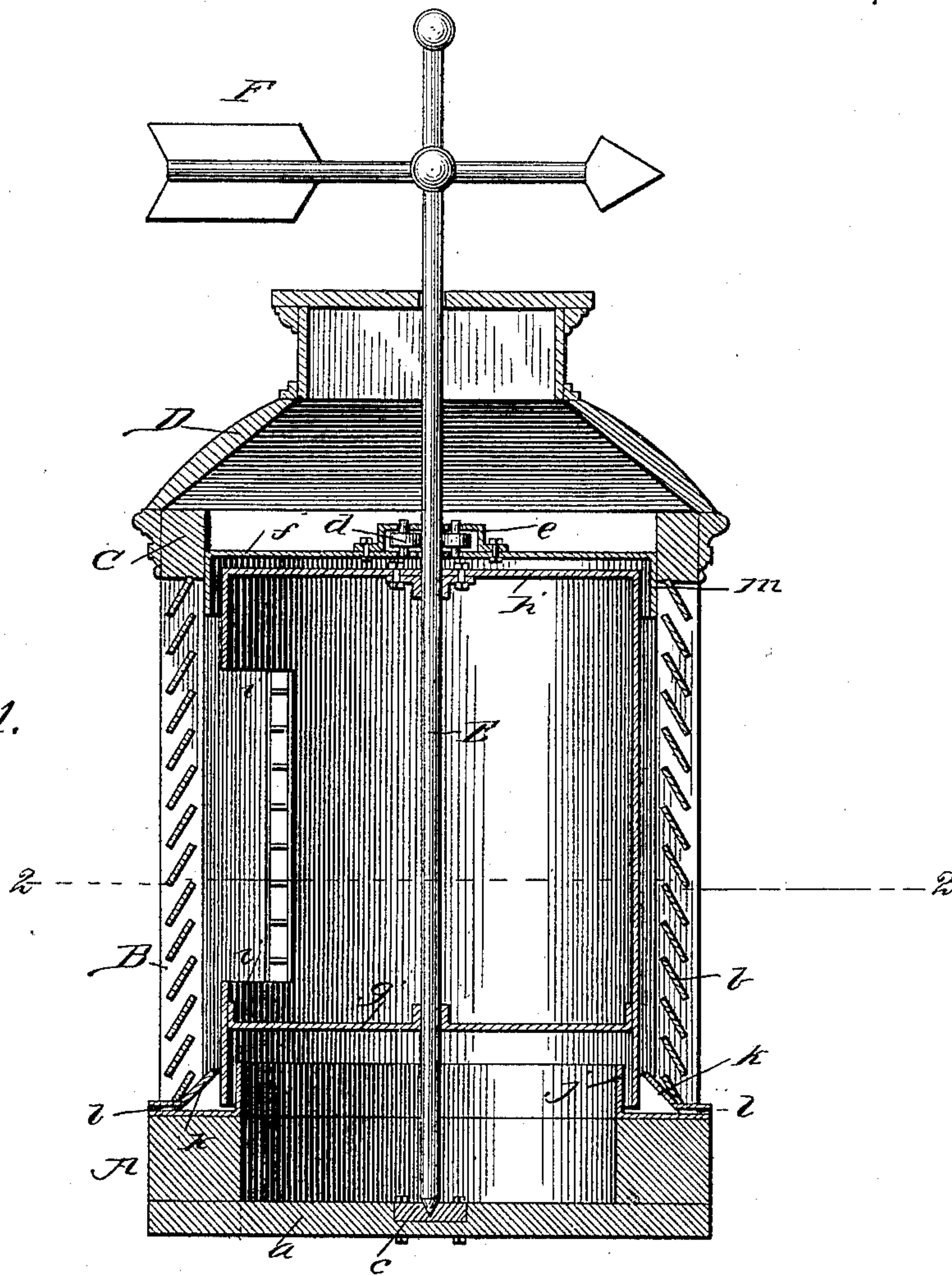
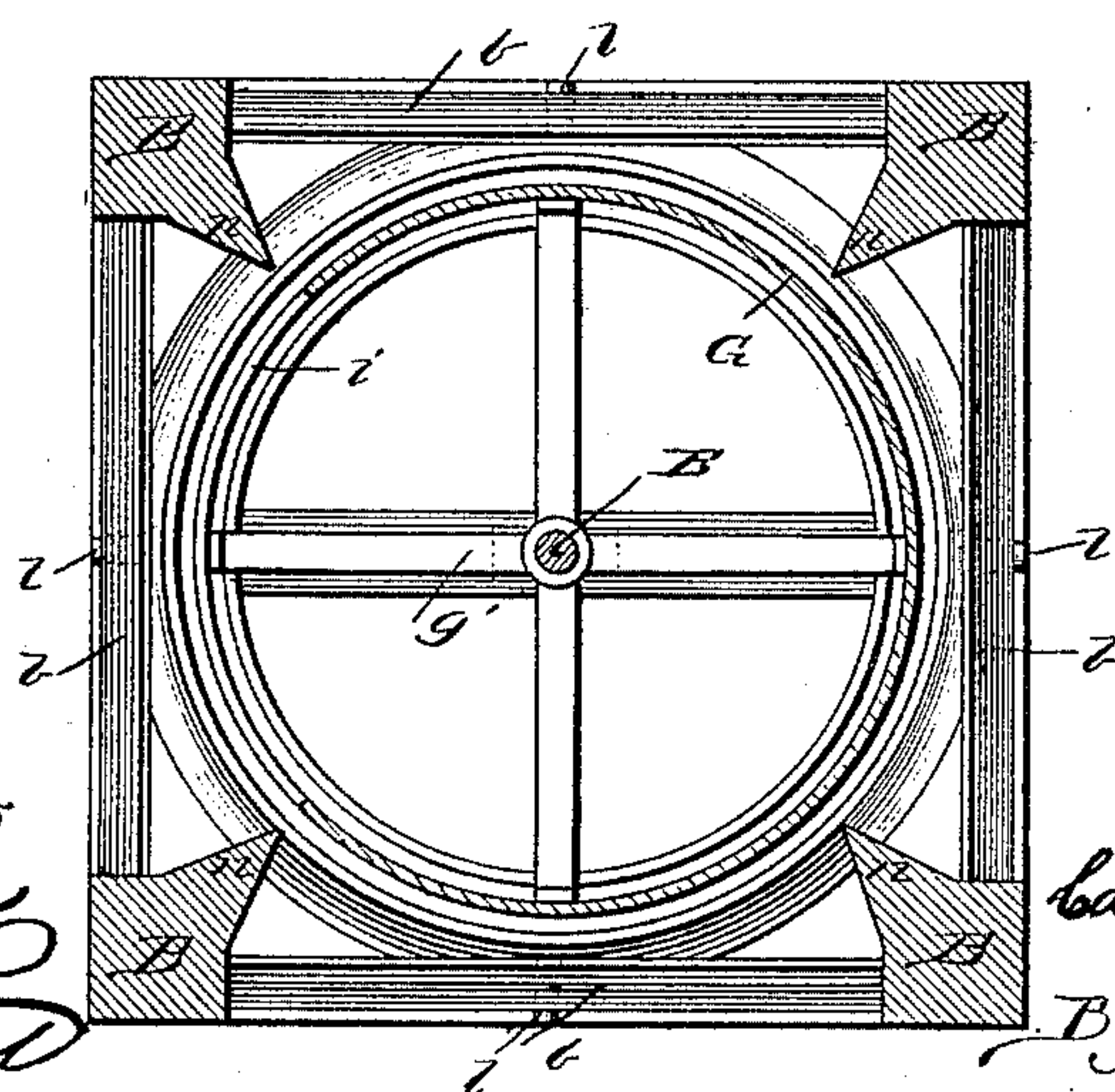


Fig. 2.



Witnesses
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UNITED STATES PATENT OFFICE.

CARL MÖHLMAYER, OF DUNNING, ILLINOIS.

VENTILATOR.

SPECIFICATION forming part of Letters Patent No. 412,973, dated October 15, 1889.

Application filed February 6, 1889. Serial No. 298,776. (No model.)

To all whom it may concern:

Be it known that I, CARL MÖHLMAYER, a citizen of the United States of America, residing at Dunning, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Ventilators, of which the following is a specification, reference being had therein to the accompanying drawings.

10 This invention relates to ventilator-tops for buildings in the shape of towers or cupolas on top of the roof of such buildings; and it has for its object to insure a good strong draft of air from the ventilator-flue during any sort of wind or weather; and with these objects in view my invention consists of the novel devices and combinations of devices hereinafter described and specifically claimed.

20 In the accompanying drawings, Figure 1 represents a vertical cross-section of the ventilator, and Fig. 2 a sectional plan on line 2 2 in Fig. 1.

25 Corresponding letters of reference designate like parts in the several figures of the drawings.

The ventilator cupola or tower consists of base A, corner-posts B, and top frame C, with conical roof D, which latter may be made of any ornamental shape. Between the posts B are framed blind-slats *b*, that will exclude rain and snow, but still will provide a free passage for the air.

30 In the base A is secured a cross-bar *a*, having a step-bearing *c* for an upright shaft E, journaled again between anti-friction rollers *d*, which are pivoted in a box *e*, secured upon a cross-bar *f*, which is fixed within the top frame C of the cupola, and thence the shaft E extends through the roof of the cupola, where it has mounted a vane F, that may be arrow-shaped or otherwise. Intermediate of step-bearings *c* and bearing-rollers *d* are mounted upon shaft E two spiders *g'* and *h'*, that carry a drum G, which is open on bottom and closed on top with a quarter-circle segment cut out at *i*, that is opposite to the vane F or to the side of drum G directed toward the wind. The vane F, following the direction of the wind, will thus rotate and hold the drum G so that the opening *i* therein will be on the side opposite from where the wind blows.

The lower edge of drum G surrounds a circular stationary flange *j*, and exterior of said drum a conical flange K surrounds the drum to provide a guard against rain blown in during stormy weather, and any water that still might enter the annular chamber between rings *j* and *k* will escape through small vents or pipes *l*. The upper end of drum G is surrounded by a ring *m*, which will fend off any water blown through the top slats *b*. Each corner-post B is shaped to provide an inwardly-projecting rib *n*, that nearly touches the drum G, thereby preventing air being blown through the cupola past the drum, whereby the blowing in of rain through the slats *b* is obviated to a great extent.

A ventilator thus constructed is not only self-adjusting to the direction of the wind, so as to provide a good draft during all changes of the weather, but its moving parts are so well protected by the blind-slatted cupola and by the rings *j*, *k*, and *m* that there will be no chance of its getting out of order or of corroding, as would be the case if exposed to the weather.

What I claim is—

1. In a ventilator, the combination, with a slatted cupola, of a shaft E, extending vertically through it, a drum G, and vane F, secured upon the shaft, said drum having a segmental opening *i*, corresponding in vertical line with the feather-end of the vane, as set forth.

2. In a ventilator, the combination, with a cupola having blind-slats on its sides and a closed roof and provided with a cross-brace *f*, having the anti-friction rollers *d* and *e*, and an inclined ring *k* and upright ring *j* at the base thereof, of a shaft E, extending vertically through the ventilator, and a drum G, secured to the shaft, having its lower edge projected into the space between the flanges or rings *k* and *j*, and provided with a segmental opening *i* and a vane on top of the shaft, as set forth.

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

CARL MÖHLMAYER.

Witnesses:

AUGUST ARCK,
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