

P. MIHAN.  
VENTILATOR CHIMNEY-CAPS.

No. 194,781.

Patented Sept. 4, 1877.

Fig. 1.

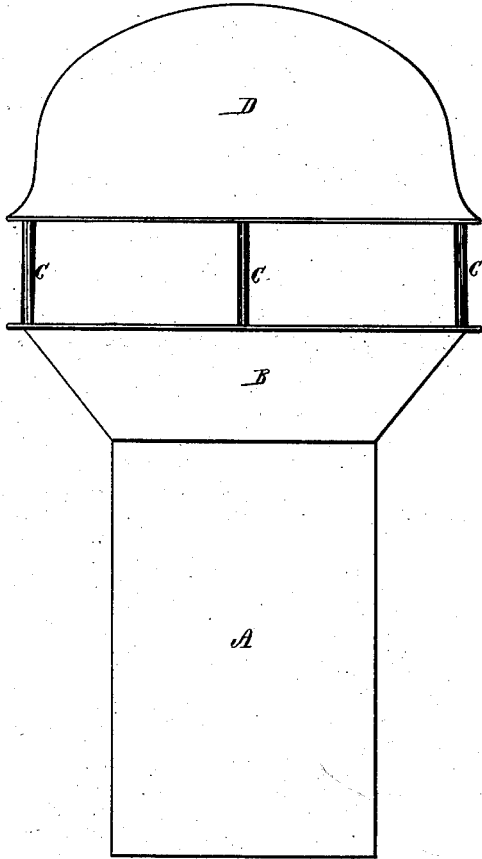
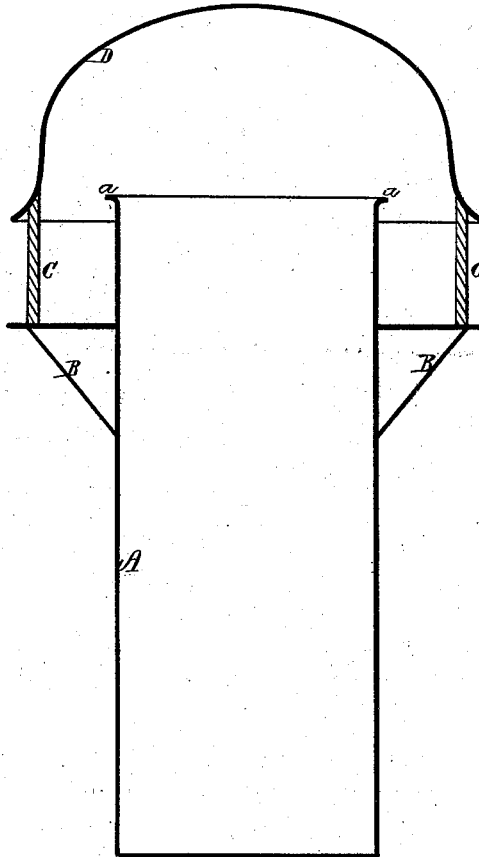


Fig. 2.



Witnesses.

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by his attorney.

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# UNITED STATES PATENT OFFICE.

PATRICK MIHAN, OF CAMBRIDGEPORT, MASSACHUSETTS.

## IMPROVEMENT IN VENTILATOR CHIMNEY-CAPS.

Specification forming part of Letters Patent No. **194,781**, dated September 4, 1877; application filed January 12, 1877.

*To all whom it may concern:*

Be it known that I, PATRICK MIHAN, of Cambridgeport, of the county of Middlesex and State of Massachusetts, have invented a new and useful or Improved Ventilator Chimney-Cap; and do hereby declare the same to be described in the following specification, and represented in the accompanying drawings, of which—

Figure 1 is a front elevation, and Fig. 2 a vertical and transverse section thereof, it consisting of a tube, an inverted frustum, and a dome and its supports, arranged and combined substantially as hereinafter explained.

The said ventilator or cap is very simple in its construction and efficient in operation.

In such drawings, A denotes a tube, which may be flanged or slightly bell-mouthed at its upper end, as shown at *a*. Extending around the tube and arranged concentrically with it, and at a suitable distance from its upper end, is an inverted conic frustum or deflector, B, from whose superior surface or larger base a series of standards, C, project upward, and have fixed to them at their upper ends a bonnet or dome, D, into which and at its base the tube A projects a short distance, as shown. This dome is bell-shaped, and has at its base a diameter equal, or about equal, to that of the larger base of the deflector B, all being as represented.

When the chimney-cap so made surmounts the top of a chimney, a flue thereof should open directly into the tube A at its lower end.

The smoke, passing from the chimney-flue into the tube A, will flow therefrom into the dome, and from thence it will be discharged into the atmosphere through the opening between such dome and the base of the deflector.

Any upward, downward, or horizontal current of air, on impinging against the ventilator or cap, will promote the escape of the smoke therefrom, and induce or increase a draft up the chimney or flue.

Instead of making the deflector B a conic frustum, as set forth, it may be a simple disk, like the base of such frustum, in which case it will operate to advantage, though not so well as it will when formed as a frustum.

The base of the frustum, instead of being a plane or disk, may be a very low frustum, inclined so as to shed water.

I claim—

In the described improved chimney cap or ventilator, the stationary dome D and the inverted and closed conical deflector B, arranged, as represented, in combination with the pipe A, concentric with the deflector and dome, and extended above the former and upward within the latter, all being substantially as set forth.

PATRICK MIHAN.

Witnesses:

R. H. EDDY,  
J. R. SNOW.