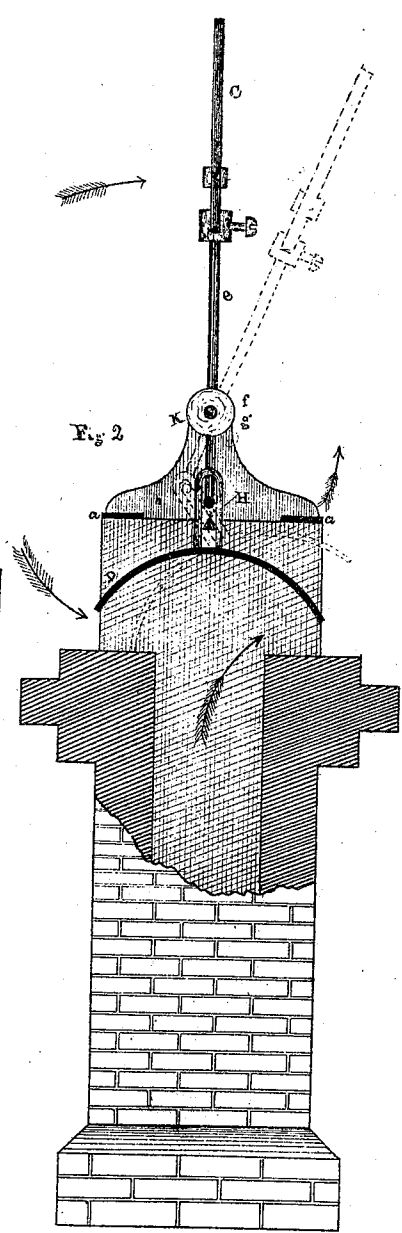
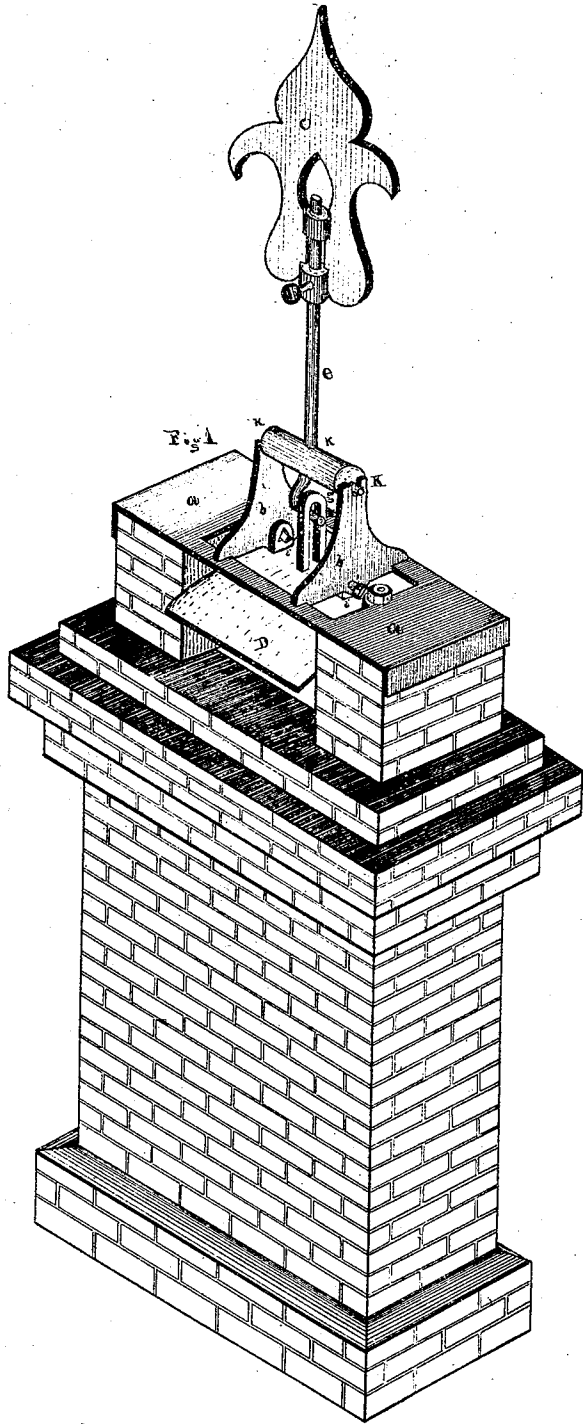


*N. Douglas.*  
*Chimney Cowl.*

*No. 101443.*

*Patented, April 5, 1870.*



Witnesses  
*George S. Davis,*  
*Alvine Douglas,*

≡ Inventor ≡  
≡ N. Douglas ≡

# United States Patent Office.

NATHAN DOUGLAS, OF GOSHEN, INDIANA, ASSIGNOR TO HIMSELF AND  
FRANK DOUGLAS, OF NORWICH, CONNECTICUT.

Letters Patent No. 101,443, dated April 5, 1870.

## CHIMNEY-COWL.

The Schedule referred to in these Letters Patent and making part of the same.

### To all whom it may concern:

Be it known that I, NATHAN DOUGLAS, of Goshen, county of Elkhart, State of Indiana, have invented a new and improved Chimney-Cap and Ventilator; 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, in which—

Figure 1 is a perspective view of a chimney-cap when attached to the chimney.

Figure 2, a vertical sectional view of the cap with a part of chimney broken out, showing an end view of cap.

*a a* is a metallic bed, to which is attached the standards *b b*.

At the lower end of these standards are the pivots *i i*, to which is hung the curved plate or cap *D*, by little ears at each end.

Cap *D* has a slotted upright standard, *H* at or near its center, through which the end *g* of wire standard *e* is locked or pivoted.

Roller or rock-shaft *K*, through which rod *e* passes, is pivoted at each end at or near the top of standard *b b*.

Near the top of wire *e*, or between top of rock-shaft *K* and end of wire *e*, is the fan-plate *c*, for the purpose of holding the wind to tilt curved cap *D* and close the opening in chimney on the windward side.

The operation is as follows:

When the wind blows against the plate or fan *c*

and curved cap *D*, the rock-shaft *K* rocks on pivots *f f*, tilting the curved cap *D* down close and tight on the windward side of chimney, (as shown by dotted lines,) thereby preventing the wind and rain from driving down chimney; and also increases the draught by the upward current of air, as shown by the arrows.

The bed-piece *a a* also serves as an excellent protection for the top of chimney in protecting the brick-work from the action of the weather.

All of the pivoted points are above the curved plate *D*, and therefore cannot be obstructed by soot. The vane *c* can be made quite ornamental, and can be used as a lightning conductor by insulating the plate *a a* from the brick-work and connecting lightning-rod to the plate.

I do not claim the cap *D* as a new device when used without the arm *H*, and detached from the tilting-rod *e* and rock-shaft *K*; but

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

1. The cap-plate of the chimney *a a*, when used in combination with the device for closing the chimney on the windward side by the action of a current of air, as herein specified.

2. The cap *D*, with pivot-stem *H*, pivot points *i i*, *f f*, and *g*, rod *e*, and fan *c*, when used in combination as herein specified and described.

NATHAN DOUGLAS.

Witnesses:

GEORGE G. DAVIS,  
ALLINE DOUGLAS.