

(No Model.)

J. W. HUNT.
CHIMNEY COWL.

No. 594,877.

Patented Dec. 7, 1897.

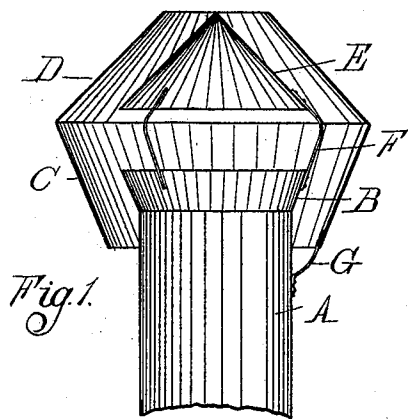


Fig. 1.

Fig. 2.

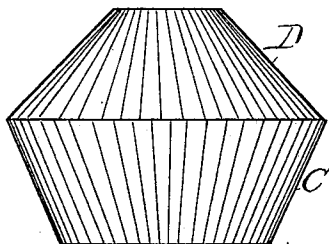


Fig. 4.

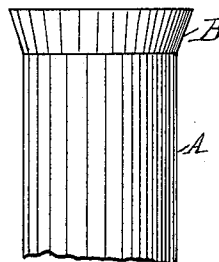


Fig. 3.

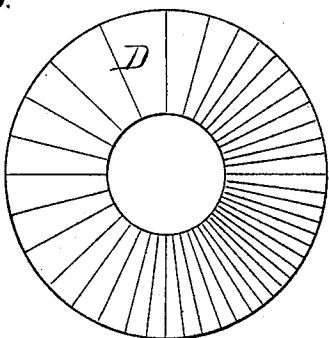
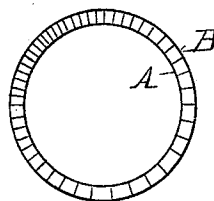


Fig. 5.



Witnesses:

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UNITED STATES PATENT OFFICE.

JAMES W. HUNT, OF PORT HOPE, CANADA.

CHIMNEY-COWL.

SPECIFICATION forming part of Letters Patent No. 594,877, dated December 7, 1897.

Application filed March 19, 1897. Serial No. 628,268. (No model.) Patented in Canada March 12, 1896, No. 51,642.

To all whom it may concern:

Be it known that I, JAMES W. HUNT, a subject of the Queen of Great Britain, residing at Port Hope, in the county of East Durham, Dominion of Canada, have invented certain new and useful Improvements in Chimney Tops and Ventilators, of which the following is a specification, reference being had therein to the accompanying drawings, and for which I have obtained Letters Patent of the Dominion of Canada, dated March 12, 1896, No. 51,642.

The invention consists in the construction of a chimney top and ventilator, and particularly in such a device comprising a flaring chimney capped by a cone with a smoke-exit between, and a surrounding casing tapering toward a point up and down from its middle, or what I call a "double-cone" casing, the object of this construction being to prevent any downdraft in the smoke-pipe and to aid the natural draft of the chimney, all as more fully hereinafter described.

In the drawings, Figure 1 is a sectional elevation of my improved device. Fig. 2 is a side elevation of the double-cone casing detached. Fig. 3 is a top plan thereof. Fig. 4 is a side elevation of the top of the smoke-pipe, and Fig. 5 is a top plan of the same.

A is the smoke-pipe or other pipe from a building, such as a ventilator-pipe, from which it is desired to have a draft outward. This pipe A is provided at the top with a flaring flange B. Over the mouth of this pipe A is the conical cap E, supported by suitable rods or bars F. Surrounding the top of the pipe A and its cap and inclosing both is the double-cone casing hereinbefore referred to, formed of the two sections D and C, open at the ends and secured to the pipe A by suitable brackets or rods G. The double-cone

casing is of such a size, compared to the part it incloses, as to leave a passage-way or channel within it, as plainly shown in Fig. 1. The action of the wind when it strikes the pipe A is, in case the current rises into the hub or double-cone case, that it will follow the channel or passage formed within the same across the exit between the flaring flange B and the cap E, acting something on the principle of an ejector to draw the air from the pipe into the passing current, the current passing out through the open top. In case the current is downward this same draft by the current crossing the exit-opening is produced, except that the air is discharged through the open mouth at the bottom of this casing.

I have found by experience that this construction adds very greatly to the natural draft of a chimney, positively prevents any downdraft, and the cap prevents the ingress of rain or snow.

What I claim as my invention is—

The combination with a pipe A having a flaring mouth such as B, a conical cap E the base of which is substantially the diameter of the mouth of the pipe supported above the pipe but separated therefrom, and a double-cone casing D supported around the mouth of the pipe and its cap, and extending substantially from the top of the cap E to a point below the flaring mouth, the point of juncture of the two cone-sections of the casing D being opposite the exit from the pipe, substantially as described.

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

JAMES W. HUNT.

Witnesses:

SETH S. SMITH,
GEO. B. HENWOOD.