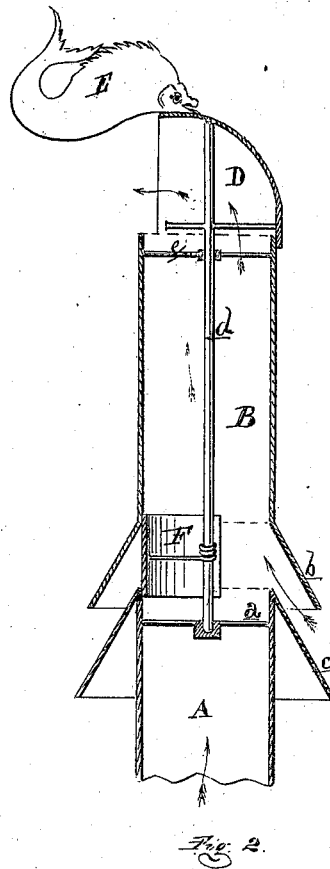
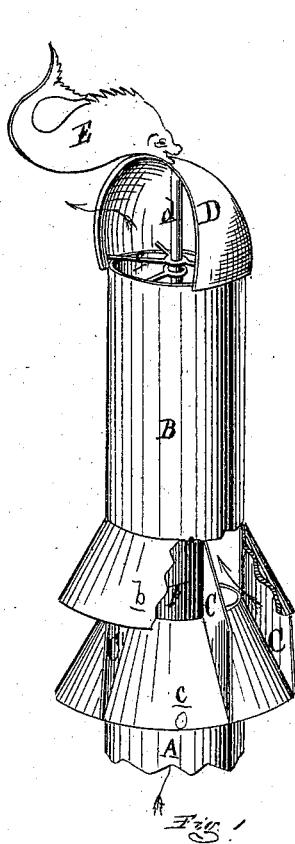


M. S. KAVANAGH.

Chimney Top.

No. 113,527.

Patented April 11, 1871.



ATTEST

Wm. H. Schuch
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INVENTOR

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United States Patent Office.

MICHAEL S. KAVANAGH, OF DETROIT, MICHIGAN.

Letters Patent No. 113,527, dated April 11, 1871.

IMPROVEMENT IN CHIMNEY-TOPS.

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

To whom it may concern:

Be it known that I, MICHAEL S. KAVANAGH, of Detroit, in the county of Wayne and State of Michigan, have invented a new and useful Improvement in Chimney-Tops; and I do declare that the following is a true and accurate description thereof, reference being had to the accompanying drawing and to the letters of reference marked thereon and being a part of this specification, in which—

Figure 1 is a perspective view of my device with a portion of the upper flange broken away, and

Figure 2 is a vertical section of the same.

Like letters indicate like parts in each figure.

The nature of this invention relates to the construction of chimney-tops in such a manner that the chimney will not smoke during the prevalence of winds; and

It consists in the peculiar construction of a top provided with a hood rotated from the wind by a vane.

To the hood is attached a spindle, to the lower part of which is attached a sector in the plane of a circumferential opening in the top, and from the top and bottom of such opening depend inclined flanges or deflectors, the whole arranged and operating as more fully hereinafter set forth.

In the drawing—

A represents the top of the chimney or flue, in the upper part of which is secured a bridge-piece, *a*.

B is the top of the chimney, having at the bottom an inclined flange, *b*.

c is a similar flange surrounding the top of the flue.

The top B is secured to the flue by four vertical plates, C, leaving a circumferential opening at that point of its height.

D is a hood or cowl of the form shown, provided with a vane, E, and central spindle *d* passing down through a bridge-piece, *e*, in the upper part of the top, and stepped in the lower one *a*.

F is a sector of a cylinder fitting easily inside the top, and is secured to the spindle so as to close one-half of the opening between the top and flue opposite the wind and below the mouth of the cowl, so that the wind, entering the top, is given an upward direction by the flanges *b c*, and finding no exit opposite its entrance, passes on up the top and out of the cowl, as shown by the arrows in the drawing, the plates C compelling it to enter.

The cowl should turn freely to the direction given it by the wind through the vane attached thereto.

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

The construction and arrangement of the chimney-top B, provided with a hood, D, vane E, spindle *d*, valve-sector F, bridge-pieces *a e*, inclined flanges *b c*, and plates C with relation to each other and the chimney or flue A, substantially as and for the purpose set forth.

MICHAEL S. KAVANAGH.

Witnesses:

H. F. EBERTS,

MYRON H. CHURCH.