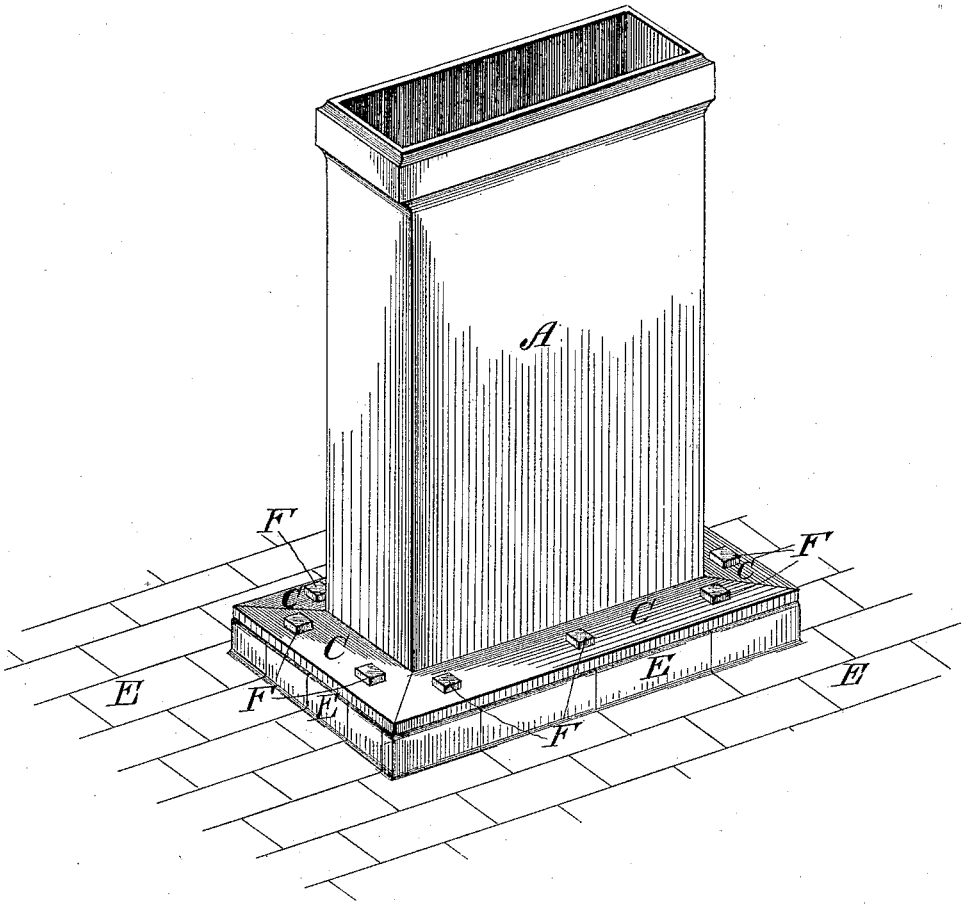
(No Model.) 2 Sheets—Sheet 1.

F. VINCENT.

CHIMNEY COWL.

No. 418,252. Patented Dec. 31, 1889.

Fig 1



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(No Model.) 2 Sheets—Sheet 2.

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No. 418,252. Patented Dec. 31, 1889.

Fig. 3.

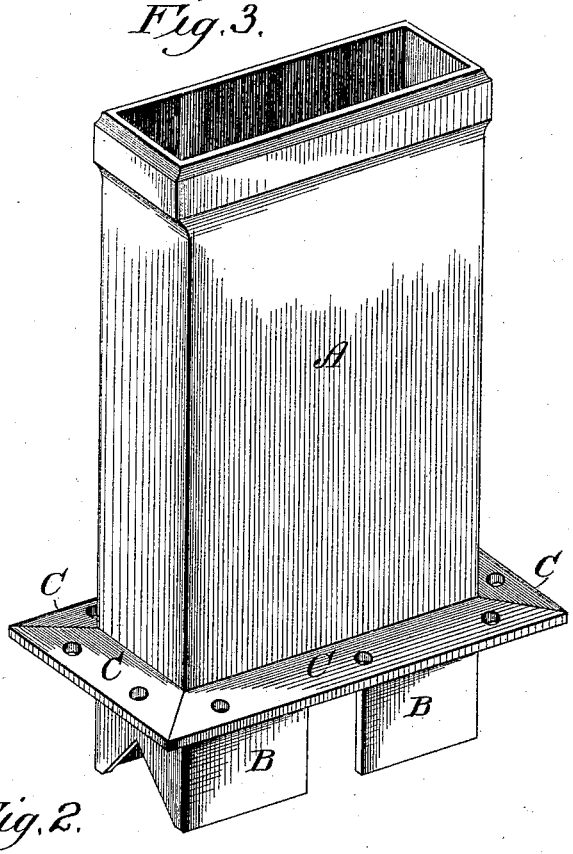
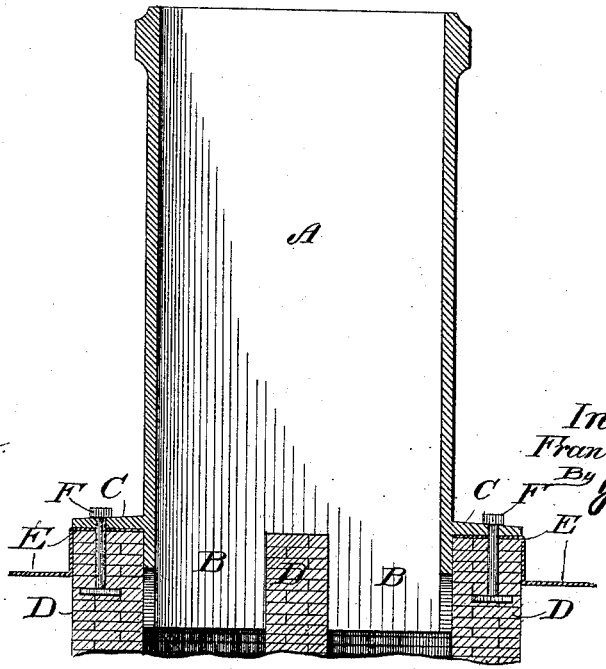


Fig. 2.



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UNITED STATES PATENT OFFICE.

FRANK VINCENT, OF BROOKLYN, NEW YORK.

CHIMNEY-COWL.

SPECIFICATION forming part of Letters Patent No. 418,252, dated December 31, 1889.

Application filed October 15, 1888. Serial No. 288,079. (No model.)

To all whom it may concern:

Be it known that I, FRANK VINCENT, a citizen of the United States, residing at Brooklyn, in the county of Kings and State of New York, have invented certain new and useful Improvements in Chimney-Cowls; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to certain new and useful improvements in chimney-cowls, and is especially designed to do away with sectional cowls, the object being to insure a perfectly water-tight connection with the brickwork of the chimney, and at the same time to strengthen the latter.

With these ends in view my invention consists in the details of construction and combination of elements, such as will be hereinafter fully set forth, and then specifically designated by the claim.

In the accompanying drawings, Figure 1 is a perspective showing my improved cowl secured in proper position relative to the brickwork of the chimney; Fig. 2, a central longitudinal vertical section of the same, and showing particularly the water-tight connection made between the chimney-flashing and the water-shed; and Fig. 3 a detail perspective of my improved cowl.

Similar letters denote like parts in the several figures.

Prior to my invention chimney-cowls have been made in sections and secured directly to and upon the roof; but the great drawback to the use of such a chimney has been that a water-tight connection with the roof could not be effected, owing to the fact that the base of the cowl was on a level with the roof, and therefore no flashing could extend over said base. However, my improvement does not contemplate a sectional cowl, nor is it to be secured to the roof.

A is the cowl having depending braces B.

C is a water-shed extending laterally from the base of the cowl.

D is the chimney-stump, which projects a short distance above the roof.

E is the tin flashing, which extends from the roof up the sides of the chimney-stump and over and across the top edge thereof.

In applying my improvement the cowl is set upon the stump, so that the braces depend within the chimney in close contact with the walls thereof, while the water-shed rests immediately upon the tin flashing. Bolts F are driven through the water-shed and flashing into the chimney-stump, thereby securing said flashing, so as to make a water-tight joint and also firmly fastening the cowl in position. The braces B, in conjunction with said bolts, greatly strengthen the chimney-stump, while they also secure the cowl within and without said stump as against lateral displacement.

It is a well-known fact that metallic chimneys and metal cowls have as their sole object to provide against injury to the chimney by the elements. In a brick chimney the mortar between the top bricks becomes rotted by frequent rains, and said bricks are thereby loosened and are easily blown off by the wind. In ordinary brick chimneys the tin flashing extends from the roof a slight distance up the sides of the chimney, so that there will be no leakage at the base of the latter. The absorbing nature of the brick itself renders it impossible for rain-water to flow down the sides of the chimney and enter between the latter and the flashing, but where a metal cowl or top is used, such as is shown in the references, the rain-water will collect at the bottom edges or eaves of said cowl or top and steadily drop and enter between the said flashing and the sides of the chimney.

The common complaint concerning metal cowls or chimneys is that they leak, and no metal chimney, so far as I know, has hitherto been devised which is not amenable to this complaint. Water will collect and flow steadily on a metal surface; and realizing that a metallic chimney is well nigh useless unless it is made water-tight, I have aimed principally to so construct a chimney and secure it to a roof that there shall be no possibility of leakage. I wish to be understood as disclaiming chimney-tops and sectional chimneys, since the gist of my invention rests in com-

bining a solid metallic chimney with the chimney-stump and flashing, so as to prevent leakage.

I claim—

In combination, the chimney-stump projecting slightly above the roof, the cowl having downwardly-extending braces within said stump, and a water-shed extending laterally outward, the flashing extending upward and inclosing the sides of the stump and having its upper edges turned over upon the top thereof, and bolts passing through the water-shed and flashing into the chimney-stump, as set forth.

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

FRANK VINCENT.

Witnesses:

EMIL C. WALTER,

WM. A. FABER.