E. COLE.

Chimney-Cowl.

No. 166,968. Patented Aug. 24, 1875.

Fig. 1

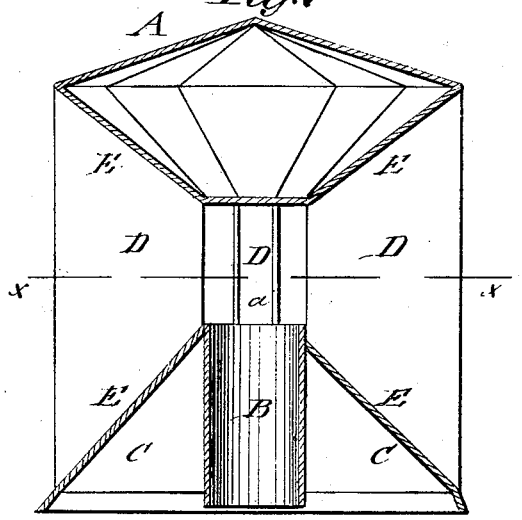


Fig. 2.

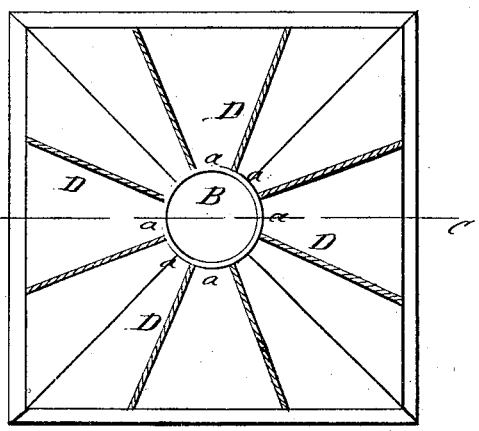


Fig. 3

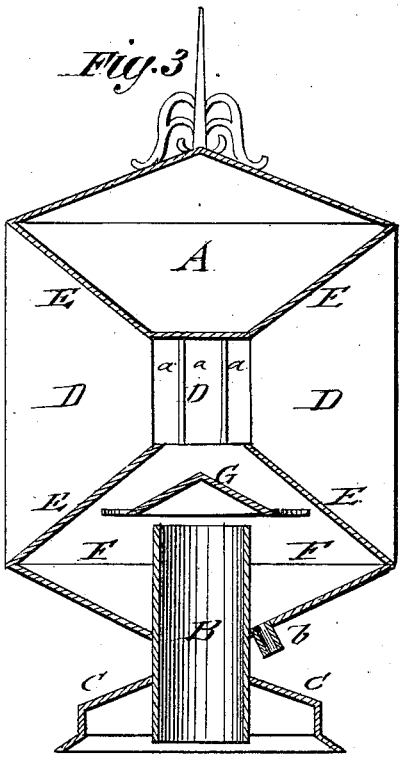
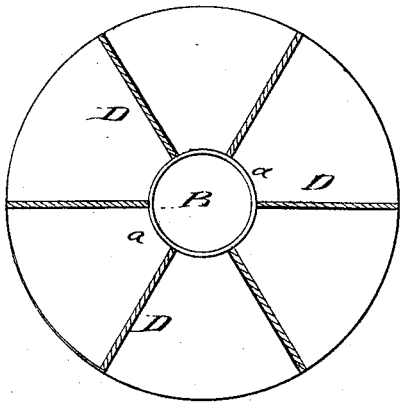


Fig. 4.



WITNESSES:

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UNITED STATES PATENT OFFICE.

EMANUEL COLE, OF NEW YORK, N. Y.

IMPROVEMENT IN CHIMNEY-COWLS.

Specification forming part of Letters Patent No. **166,968**, dated August 24, 1875; application filed July 10, 1875.

To all whom it may concern:

Be it known that I, EMANUEL COLE, of the city, county, and State of New York, have invented a new and Improved Chimney-Cowl, of which the following is a specification:

In the accompanying drawing, Figures 1 and 2 represent, respectively, vertical central and horizontal sections on the lines *c c* and *x x* of my improved chimney-cowl; and Figs. 3 and 4 are vertical central and horizontal sections of a modified form of the same.

Similar letters of reference indicate corresponding parts.

My invention relates to an improved chimney-cowl that secures an effective draft in the chimney in whatever direction the wind is blowing, the wind assisting the draft, and rendering thereby the working of the chimney reliable in any weather, so as to prevent smoking and other inconveniences.

The invention will first be fully described, and then pointed out in the claims.

In the drawing, A represents a chimney-cowl, which is made of suitable sheet metal, of round or polygonal shape, and secured, by a chimney connecting-tube, B, and cap-piece C, rigidly to the crown or top of the chimney. A series of vertical partitions, D, run at equal distance from each other in diametrical direction from the end of the chimney-tube, and form, with the straight or conical top and bottom plates E E, a number of channels, that taper toward the communicating apertures *a*, arranged around the end of the chimney-tube.

The wind passes readily along any one or more of the radiating channels from whatever direction the same may come, and then across the chimney-tube to the diametrically-opposite channel, which assists, by its widening shape, the passage of the wind, and creates also, by the cross draft, a supplementary draft in the chimney, and thereby the escape of the smoke with the wind. This is effected in every direction without any chance of damage or disarrangement to the operating parts, the cowl being perfectly reliable in its work.

For the purpose of excluding the rain from the chimney the exit-apertures of the cowl are arranged at some distance above the end of the same, and an additional base-chamber, F, formed around the same.

A central diaphragm, G, is attached, in suitable manner, above the chimney-tube, to conduct any entering rain sidewise to be collected at the bottom of chamber F, and discharge through an exit-spout, *b*, to the outside. This water-collecting chamber may be arranged with little extra expense in connection with the inclined bottom plate of the cowl, while it imparts, at the same time, a more ornamental appearance to the same.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

1. The combination of cowl A, tube B, cap C, partitions D, and plates E with base-chamber F, in the manner and for the purpose described.

2. The combination of chamber F and diaphragm G, to conduct the rain-water to spout *b*, in the manner specified.

EMANUEL COLE.

Witnesses:
T. B. MOSHER,
ALEX. F. ROBERTS.