

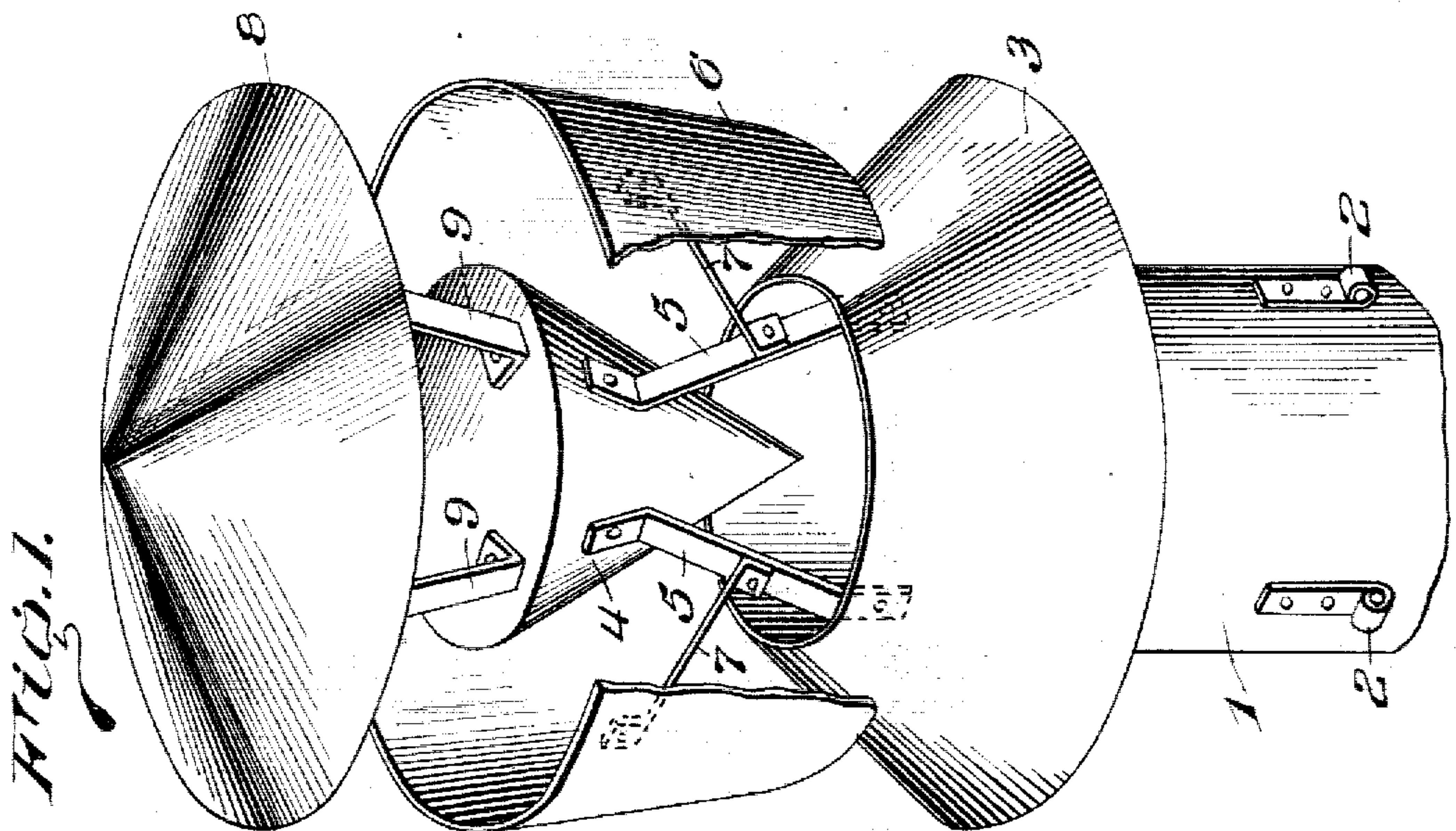
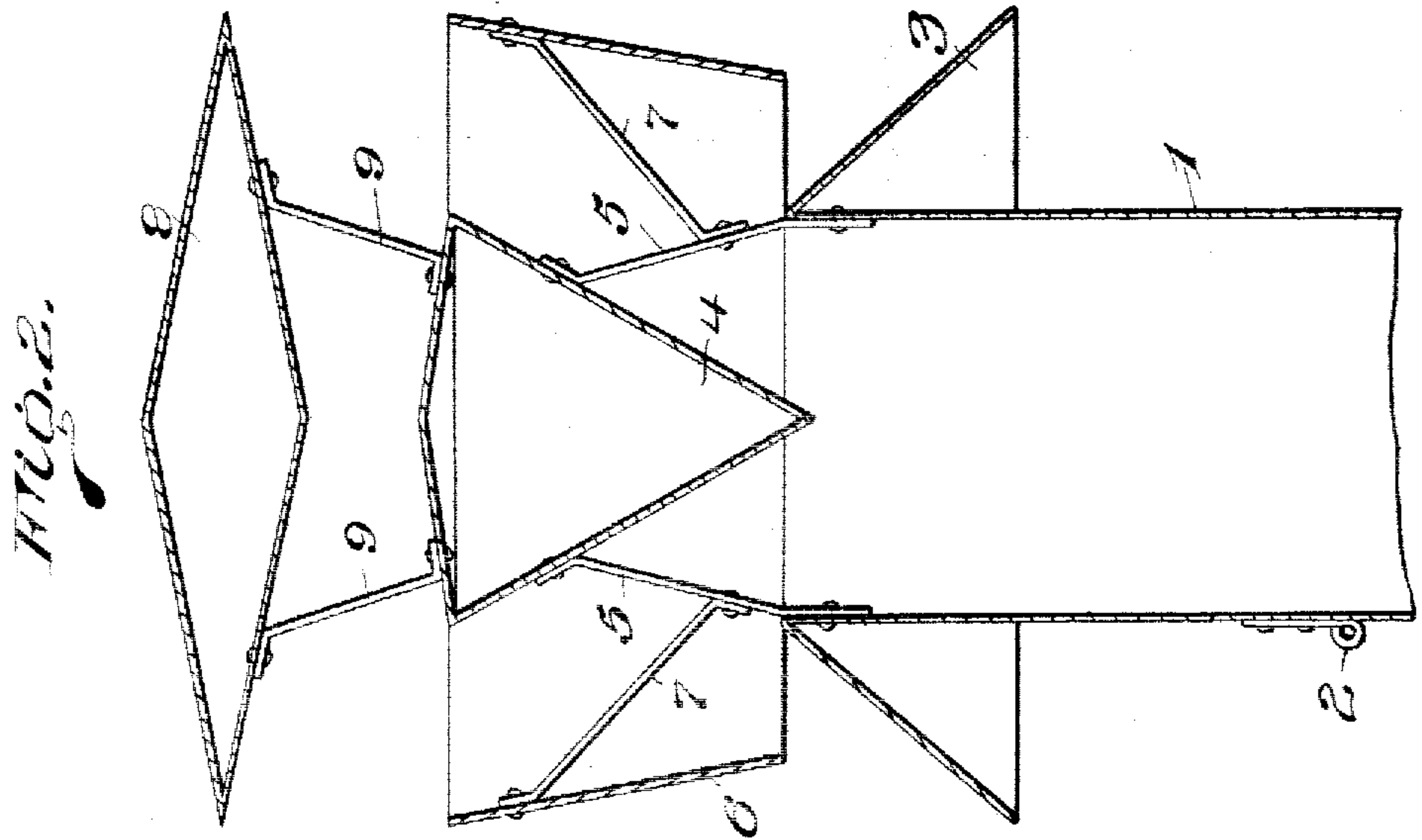
No. 811,764.

PATENTED FEB. 6, 1906.

A. E. COLEGROVE & S. REED.

CHIMNEY CAP.

APPLICATION FILED FEB. 15, 1905.



Inventors

A. E. Colegrove

Shelton Reed

Witnesses

J. J. Smith  
W. V. Woodson

By

Phar. M. Lacey, Attorneys



# UNITED STATES PATENT OFFICE.

AUSTIN E. COLEGROVE AND SHELTON REED, OF CYNTHIANA, KENTUCKY.

## CHIMNEY-CAP.

No. 811,764.

Specification of Letters Patent.

Patented Feb. 6, 1906.

Application filed February 15, 1905. Serial No. 245,727.

*To all whom it may concern:*

Be it known that we, AUSTIN E. COLEGROVE and SHELTON REED, citizens of the United States, residing at Cynthiana, in the county of Harrison and State of Kentucky, have invented certain new and useful Improvements in Chimney-Caps, of which the following is a specification.

This invention provides a cowl or cap for chimneys, stacks, or shafts of novel and peculiar formation for accelerating the draft through the chimney or like shaft either for ventilating or carrying off smoke and gases and which will prevent rain, sleet, snow, and the like from entering the chimney or shaft.

For a full description of the invention and the merits thereof and also to acquire a knowledge of the details of construction of the means for effecting the result reference is to be had to the following description and accompanying drawings.

While the invention may be adapted to different forms and conditions by changes in the structure and minor details without departing from the spirit or essential features thereof, still the preferred embodiment thereof is shown in the accompanying drawings, in which—

Figure 1 is a detail perspective view of a chimney-cap embodying the invention, parts being broken away. Fig. 2 is a vertical section of the cap or cowl.

Corresponding and like parts are referred to in the following description and indicated in both views of the drawings by the same reference characters.

The cowl comprises a collar 1, which is of a size to be fitted to the top of the chimney, stack, or like part, said collar being provided with loops 2 for connection therewith of stay-wires for holding the cowl in place and bracing the same. A deflecting-frustum 3 is fitted to the upper end of the collar 1 to give an upward direction to horizontal air-currents, whereby the draft through the chimney or shaft is accelerated. A deflecting-cone 4 is located above the collar and deflecting-frustum, said cone being inverted and having its apex projecting below a plane touching the upper edges of the collar and frustum. Rods

or bars 5 connect the cone 4 with the collar 1. A band 6 of conico-cylindrical form encircles the deflecting-cone 4 and is arranged above the deflecting-frustum 3, the smaller base being lowermost, so as to provide ample space between the upper portion and the base of the cone 4. The band 6 is supported by means of stay rods or bars 7, preferably connected at their lower ends to the rods or bars 5 between the ends of the latter. A top 8 is arranged above the cone 4 and is of such diametrical extent as to prevent rain, sleet, or the like from entering the space inclosed by the band 6 to a certain extent. Stay rods or bars 9 support the top 8 and are by preference attached at their lower ends to the cone 4. The top 8 is hollow and composed of companion parts jointed at their outer edges in any convenient and substantial way. Each part of the top is of conical form and by being placed with their hollow sides facing the upper and lower sides of the top present a conical appearance. By reason of the peculiar formation of the top the upper side thereof quickly sheds water, and the lower side acts as a deflector to direct smoke, gases, and the like in an outward and upward direction.

A cowl or chimney-cap constructed substantially as herein set forth is adapted to accelerate the draft through the chimney or shaft by utilizing air-currents. The same striking the deflecting-frustum 3 and glancing upward meet with the cone 4 and are again deflected outward, thereby creating a suction within the band 6, which results in materially increasing the draft through the chimney or like part.

Having thus described the invention, what is claimed as new is—

A chimney-cowl substantially as described and comprising the collar 1, the loop members 2 exterior of the collar 1, the deflecting-frustum 3 at the upper extremity of the collar 1, the upward-flaring band 6 above the frustum 3 and having its smaller end lowermost, the rods or bars 5 projected upwardly from the upward extremity of the collar 1, the deflecting-cone 4 exposed above the collar 1 and encircled by the band 6, the rods or bars 7 attached at their lower ends to the rods or bars

5 between the ends of the latter and secured at their upper ends to the band 6 aforesaid to support the same, the hollow top 8 above the cone 4, and the rods or bars 9 attached at their lower ends to the top of the cone 4 and at their upper ends to the under side of the hollow top, supporting the latter.

In testimony whereof we affix our signatures in presence of two witnesses.

AUSTIN E. COLEGROVE. [L. S.]

SHELTON REED. [L. S.]

Witnesses:

W. S. HARDIN,  
THOS. POWER.