

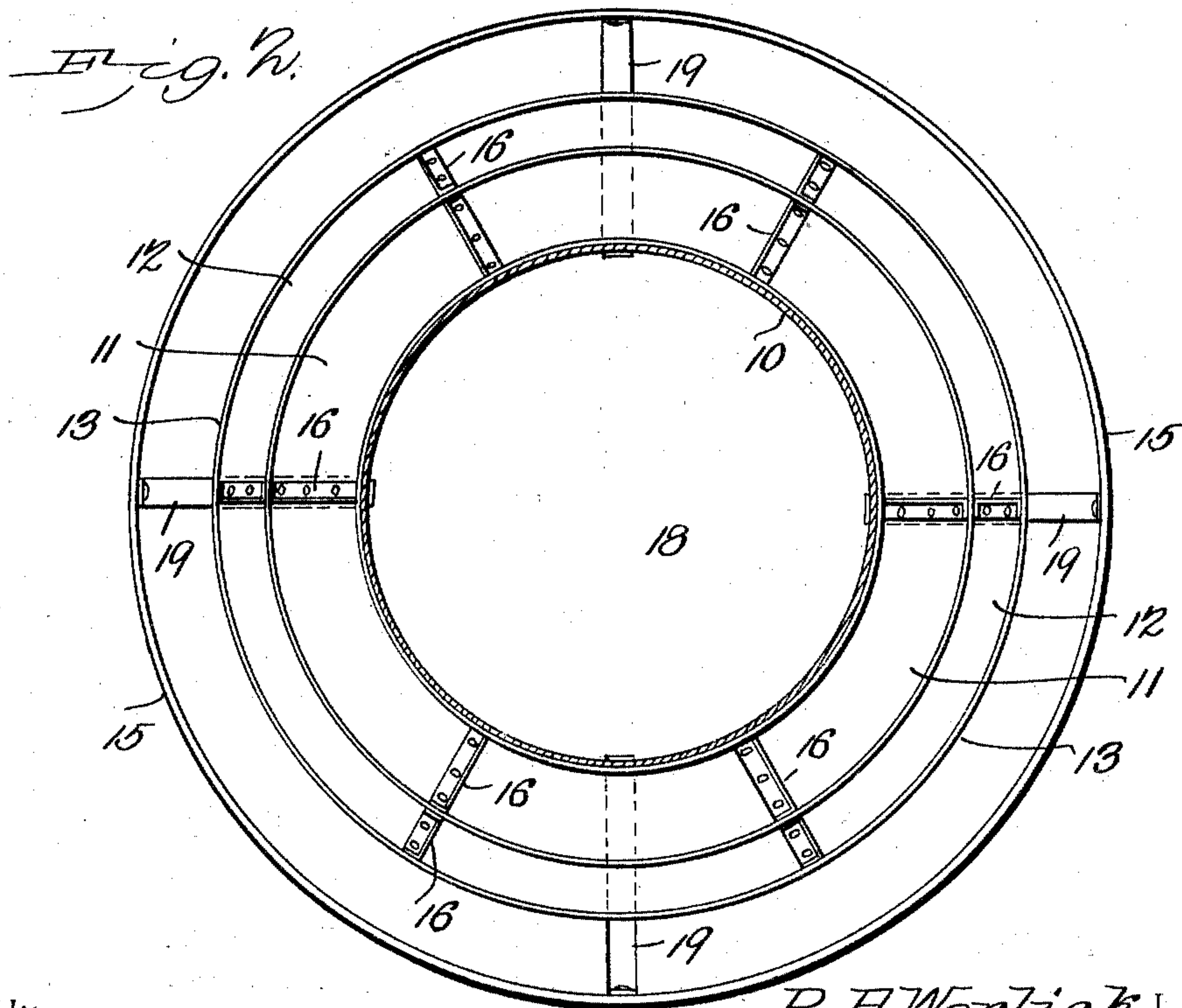
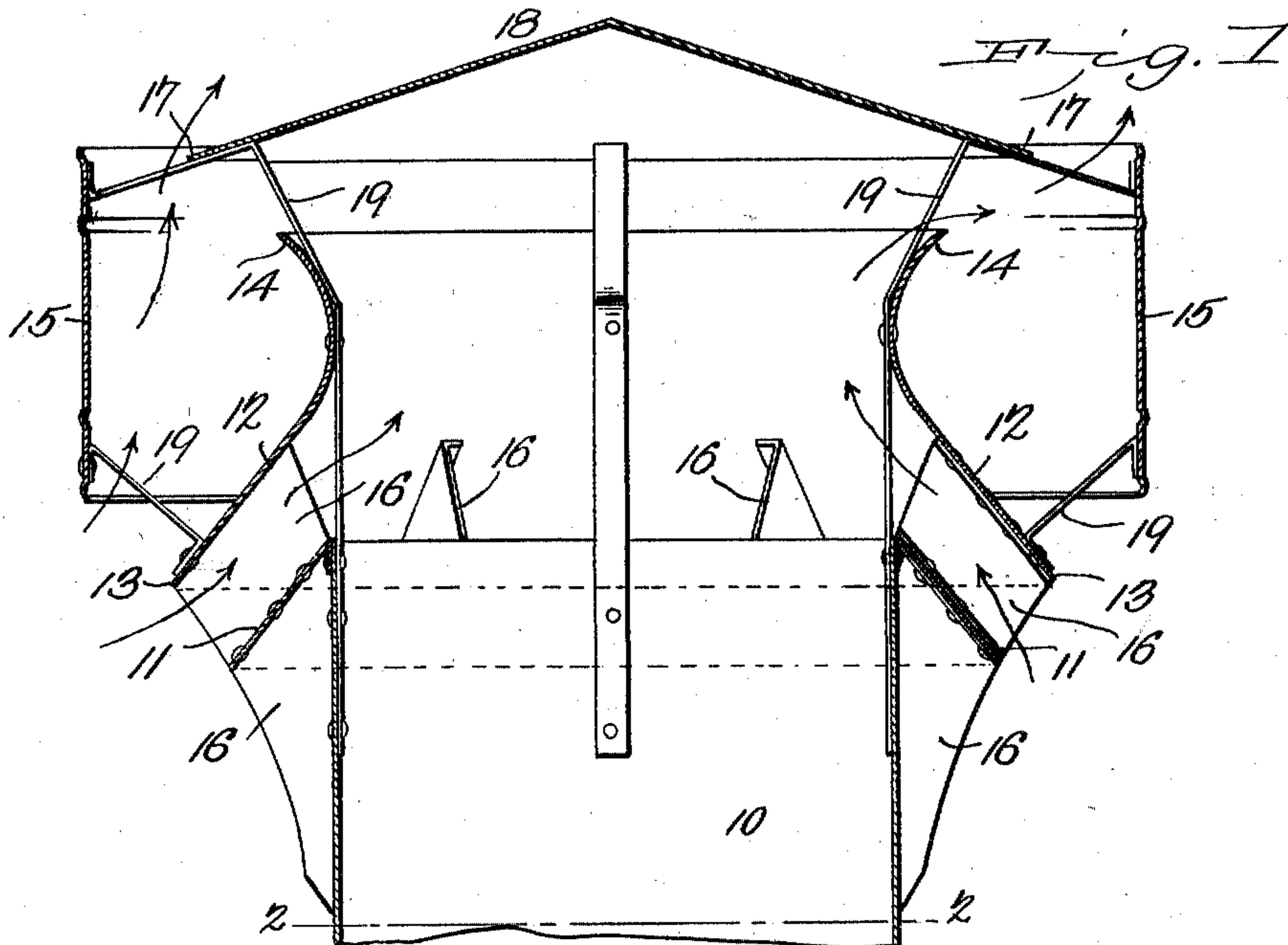
No. 760,092.

PATENTED MAY 17, 1904.

B. A. WARLICK.
CHIMNEY COWL.

APPLICATION FILED JULY 1, 1903.

NO MODEL.



Witnesses
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UNITED STATES PATENT OFFICE.

BARTOW ALEXANDER WARLICK, OF ATLANTA, GEORGIA.

CHIMNEY-COWL.

SPECIFICATION forming part of Letters Patent No. 760,092, dated May 17, 1904.

Application filed July 1, 1903. Serial No. 163,940. (No model.)

To all whom it may concern:

Be it known that I, BARTOW ALEXANDER WARLICK, a citizen of the United States, residing at Atlanta, in the county of Fulton and State of Georgia, have invented a new and useful Chimney-Cowl, of which the following is a specification.

This invention relates to attachments to chimneys, smoke and other flues, to improve the draft therethrough, and has for its object to simplify and improve devices of this character and to produce a device which will materially increase the force and efficiency of the draft without increase of expense or complication of parts; and the invention consists in certain novel features of construction, as hereinafter shown and described, and specified in the claim.

In the drawings illustrative of the invention, in which corresponding parts are denoted by like designating characters, Figure 1 is a vertical sectional elevation. Fig. 2 is a bottom plan view with flue in section on the line 2 2 of Fig. 1.

The improved device may be formed for attachment to any sized flue, represented at 10, and consists of a lower annulus 11, adapted to be attached to the open mouth of the flue and flaring outwardly and downwardly therefrom, as shown.

Above the lower annulus is an upper annulus 12, spaced therefrom and with its lower edge 13 above the lower edge of the lower annulus and with its lower portion flaring inwardly and upwardly parallel to the lower annulus and with its upper portion flaring outwardly, as at 14.

Surrounding the upper annulus is a wind-break in the form of a vertical annular band 15, spaced from the annuli, with its lower edge above the lower edge of the upper annulus 12 and extending above the upper edge 14, as shown.

Between the annuli 11 12 vertical wings 16 are disposed and spaced apart and also extending downwardly between the flue 10 and lower

annulus, as shown, the wings serving to check the air-currents and turn them upward between the annuli, and thus increase the force of the draft by preventing the currents from merely flowing or whirling around the flue and its attached cowl. The wings also materially assist in supporting and bracing the annuli.

Above the upper annulus is a cap member 18, preferably conical, with its edge 17 just below or in horizontal alinement with the upper edge of the band member 15 and spaced above the part 14 of the upper annulus, as shown.

The parts will be connected by braces 19, spaced apart and disposed at suitable intervals to properly secure them, as shown, and without interfering with the free passage of the air. By this simple arrangement all down-drafts into the flue 10 are prevented, while at the same time all updrafts between the parts 11 and 12 and between the parts 12 15 will be forcibly conducted away from the flue and create a strong draft in the latter, and thus materially accelerate the currents of air flowing through the flue.

The wings 16, as before stated, materially aid in this operation by breaking up the lateral or whirling currents and causing them to flow through the improved cowl.

The parts will be of sheet metal of suitable gage and material and may be of any suitable relative size to accomplish the desired beneficial results.

Having thus described the invention, what I claim is—

A chimney-cowl comprising a lower annulus adapted for attachment to the outlet end of a flue and flaring outwardly and downwardly therefrom, an upper annulus spaced from and parallel with said lower annulus with its lower edge disposed in a plane above the lower edge of the lower annulus and below the upper edge thereof, an annular wind-break inclosing said upper annulus and spaced therefrom and terminating at its lower edge in a plane above

the lower edge of the upper annulus, vertical
gather-wings spaced apart and disposed be-
tween said annuli and extending below said
lower annulus and adapted to gather the wind
5 and brace the annuli, and a cap member dis-
posed above said upper annulus with its edge
spaced from said wind-break.

In testimony that I claim the foregoing as
my own I have hereto affixed my signature in
the presence of two witnesses.

BARTOW ALEXANDER WARLICK.

Witnesses:

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W. C. WASHBURN.