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B. A. WARLICK.
CHIMNEY COWL.

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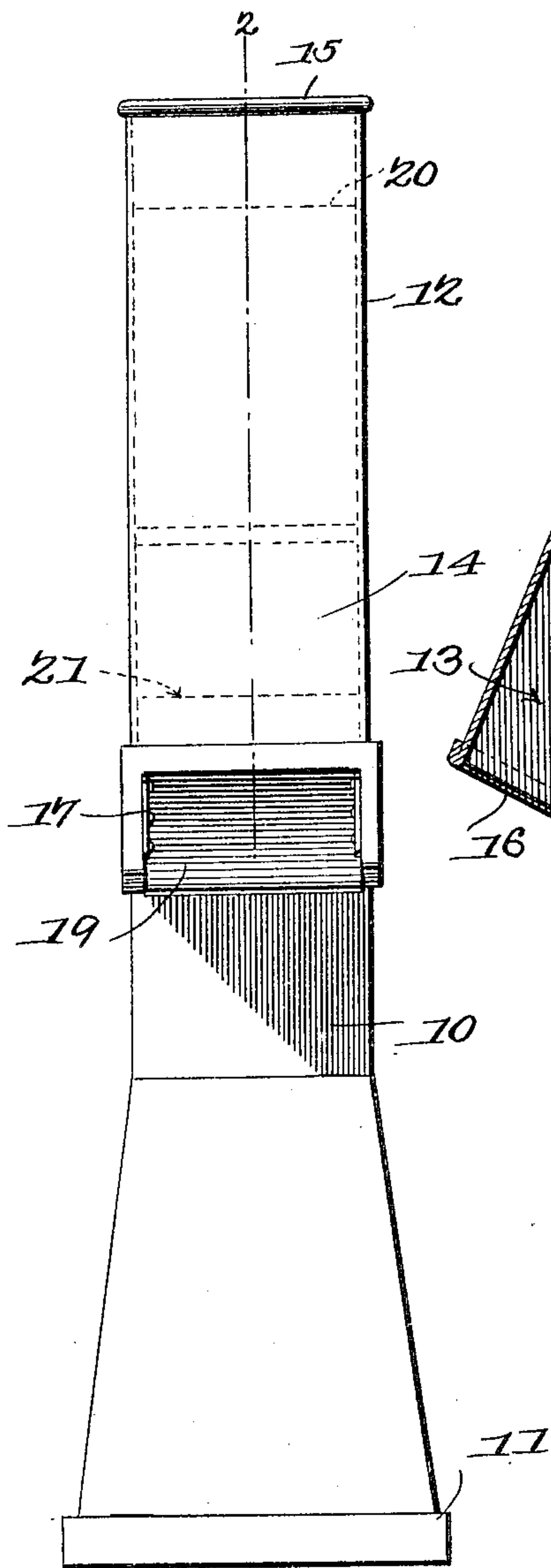


Fig. 1.

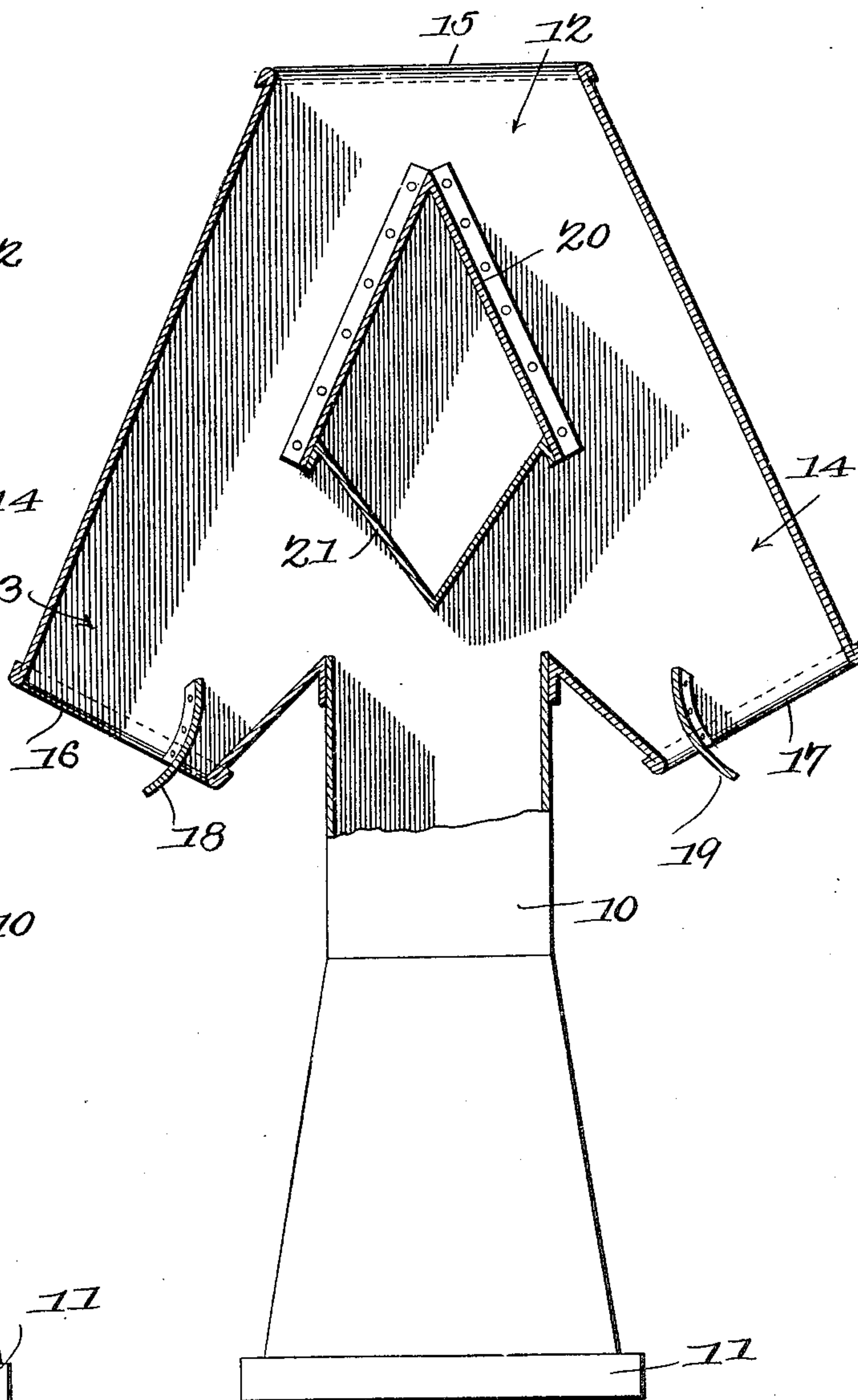


Fig. 2.

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BARTOW A. WARLICK, OF ATLANTA, GEORGIA.

CHIMNEY-COWL.

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Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, BARTOW A. 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 chimney-cowls for improving the draft and preventing the wind from blowing downward into the same or the entrance of rain or snow, and has for its object to improve the construction and increase the efficiency of devices of this class.

With these and other objects in view, which will appear as the nature of the invention is better understood, the same consists in certain novel features of construction, as hereinafter fully described and claimed.

In the accompanying drawings, forming a part of this specification, and in which corresponding parts are denoted by like designating characters, is illustrated the preferred form of embodiment of the invention capable of carrying the same into practical operation, it being understood that the invention is not necessarily limited thereto, as various changes in the shape, proportions, and general assemblage of the parts may be resorted to without departing from the principle of the invention or sacrificing any of its advantages.

In the drawings, Figure 1 is a side elevation, and Fig. 2 is a sectional elevation on the line 2 2 of Fig. 1.

The improved device comprises a flue portion 10, having a base 11 for engaging the top of a chimney, and with a hood 12, formed with laterally-extending and downwardly and outwardly inclined flues 13 14, the upper end of the hood and the downward ends of the laterally-inclined flues being open, as shown, respectively, at 15, 16, and 17.

Within the mouths of the lateral flues 13 14 are disposed curved transverse deflecting-plates 18 19, depending for a distance below the flues and adapted to receive the currents of air and deflect them upward into the hood, as hereinafter explained.

Disposed within the hood above the open discharge end of the flue 10 is an inverted-V-shaped or cone-shaped plate 20, the base-lines of the plate extending beyond the flue 10, so that rain or snow falling into the hood will be carried into the lateral flues 16 and not permitted to fall into the smoke-flue 10.

Beneath the conical-shaped member 20 is a V-shaped guard-plate 21 to fill the cavity otherwise remaining beneath the member 20,

but also assisting in the action by deflecting the rising products of the combustion laterally into the inclined flues 16 17.

The flue 10 will preferably be substantially square in transverse section, and the side walls of the hood 12 and the flues 13 14 will not project laterally beyond the side walls of the flue 10, so that a number of the devices may be arranged closely disposed side by side. This is of advantage when the device is to be employed upon chimneys having multiple flues, as each flue may thus be easily supplied with an independent cowl, as will be obvious.

With a device thus constructed the smoke, gases, and other products of the combustion rising through the flue 10 are deflected by the V-shaped plate 21 and carried around the cone-shaped member 20 and exit at the open upper end 15 of the hood 12. In the meantime the currents of air entering at the lower open ends of the inclined lateral flues 16 17 are carried upward alongside the members 20 21 together with the smoke and gases, and thus materially accelerate the draft of the chimney, while at the same time the lateral movements of the air are effectually prevented from causing down-drafts in the same by reason of the peculiar form of the "cowl."

The curved deflector-plates 18 19 perform an important function, as they receive the air-currents blowing laterally against them and turn them upwardly and carry them past the upper end of the flue 10, and thus effectually prevent any tendency of the currents to blow downwardly into the chimney.

The device is simple in construction, is inexpensive to manufacture, and can be adapted to any form or size of chimney or smoke-stack.

Having thus described the invention, what is claimed is—

A ventilator comprising a flue having means at one end for connection to a chimney and with a hood extending above the same and open at the upper end, said hood having oppositely-disposed lateral branches inclining downwardly and outwardly therefrom, a cone-shaped deflector within said hood above said flue, and curved deflector-plates disposed within the open lower ends of said inclined branches and transversely of the same.

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

BARTOW A. WARLICK.

Witnesses:

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