

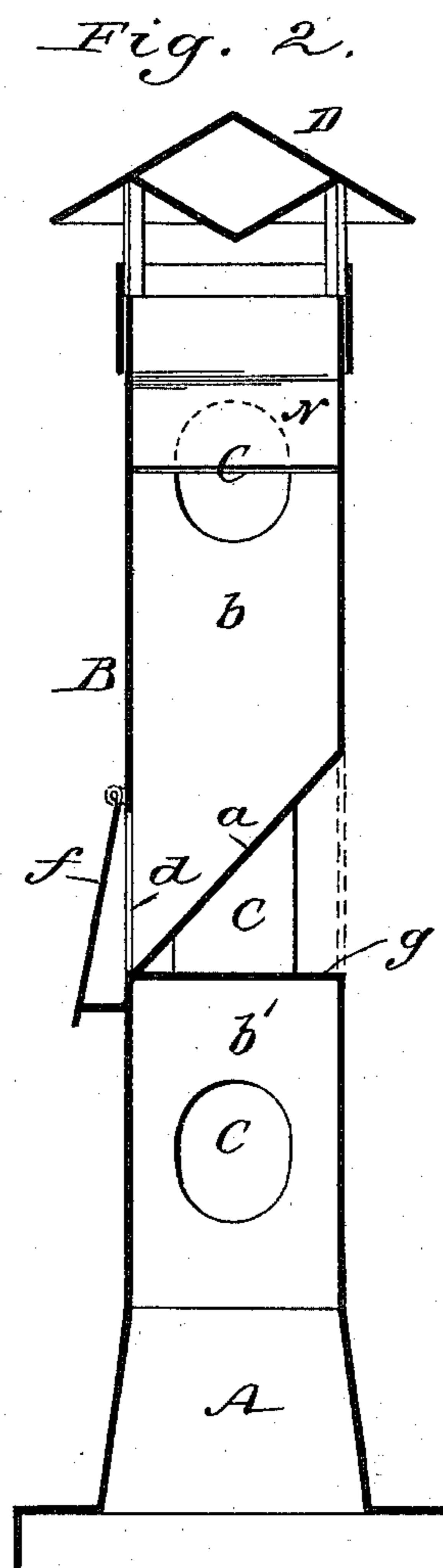
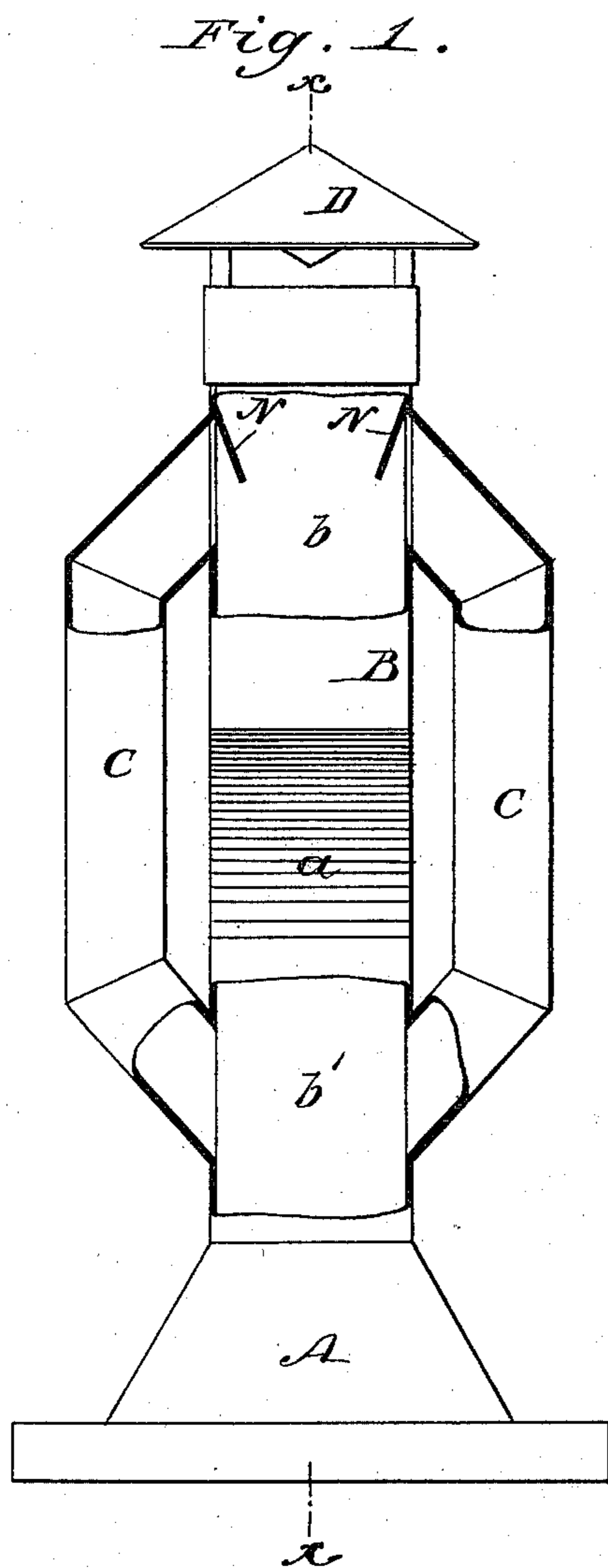
(No Model.)

J. D. CASHILL.

CHIMNEY COWL AND VENTILATOR.

No. 383,626.

Patented May 29, 1888.



WITNESSES:
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JOHN D. CASHILL, OF PRINCETON, NEW JERSEY.

CHIMNEY COWL AND VENTILATOR.

SPECIFICATION forming part of Letters Patent No. 383,626, dated May 29, 1888.

Application filed February 24, 1888. Serial No. 265,103. (No model.)

To all whom it may concern:

Be it known that I, JOHN D. CASHILL, of Princeton, in the county of Mercer and State of New Jersey, have invented a new and Improved Chimney Cowl and Ventilator, of which the following is a full, clear, and exact description.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar letters of reference indicate corresponding parts in both the figures.

Figure 1 is a broken front elevation of my new and improved chimney cowl and ventilator, and Fig. 2 is a central sectional elevation of the same taken on the line *xx* of Fig. 1.

The invention will first be described in connection with the drawings, and then pointed out in the claims.

The base *A* of my new cowl or ventilator is constructed to fit upon the top of a chimney or ventilating flue, and rising from this base is the main body *B* of the cowl or ventilator, divided by the partition *a* to form the upper section, *b*, and lower section, *b'*. The lower section, *b'*, is connected to the upper section, *b*, by the pipes or flues *C*, which are by preference built outside of the main body, as shown clearly in Fig. 1, so that a free passage for smoke and air is provided from the bottom section, *b'*, to the top of the cowl. In the back wall of the main body *B*, adjacent to the partition *a*, is formed the opening *d*, which is closed by a door, *f*, hinged to the outside of the cowl, above the said opening, so that the door will close by its own weight and prevent draft from entering the upper section, *b*. Any pressure of air or water upon the inside of the upper section, *b*, will not be retained by the door *f*, but will force open the door *f* and escape. The said partition *a* is by preference set at an angle, with its lower edge at the bot-

tom of the opening *d*, so that any water or snow that may be driven past the cover *D* at the top of the main body *B* will not be retained, but will rapidly flow out at the opening *d*. The lower section, *b'*, is closed at the top by the plate *g*; but this may be omitted, in which case the main body will be extended or made continuous, as shown in dotted lines in Fig. 2. Within the section *b* is placed the deflecting-plates *N N*, which partially close the pipes *C*, and serve to deflect currents of air that may enter the said section and prevent all down-currents from entering the pipes.

By constructing the cowl or ventilator as described any air that draws into the top will escape at the door of the section *b*, below the pipes *C*, and will not enter the pipes *C*; and hence all downdraft is obviated, and the cowl is cheap and strong and durable.

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

1. A cowl or ventilator formed with upper and lower sections, *b b'*, connected by pipes *C*, the upper section being provided with a door below the entrance of the pipes to said upper section, substantially as described.

2. A cowl or ventilator composed of a main body, *B*, having a sloping partition, *a*, door *d f*, upper and lower sections, *b b'*, and the pipes *C*, connecting the lower with the upper section, substantially as described.

3. The cowl or ventilator divided into sections *b b'*, united by the side pipes, *C*, in combination with the deflecting-plates *N*, arranged in the section *b* over the pipes *C*, substantially as and for the purposes set forth.

JOHN D. CASHILL.

Witnesses:

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