

(No Model.)

E. VAN NOORDEN.
Ventilator for Chimneys.

No. 238,185.

Patented Feb. 22, 1881.

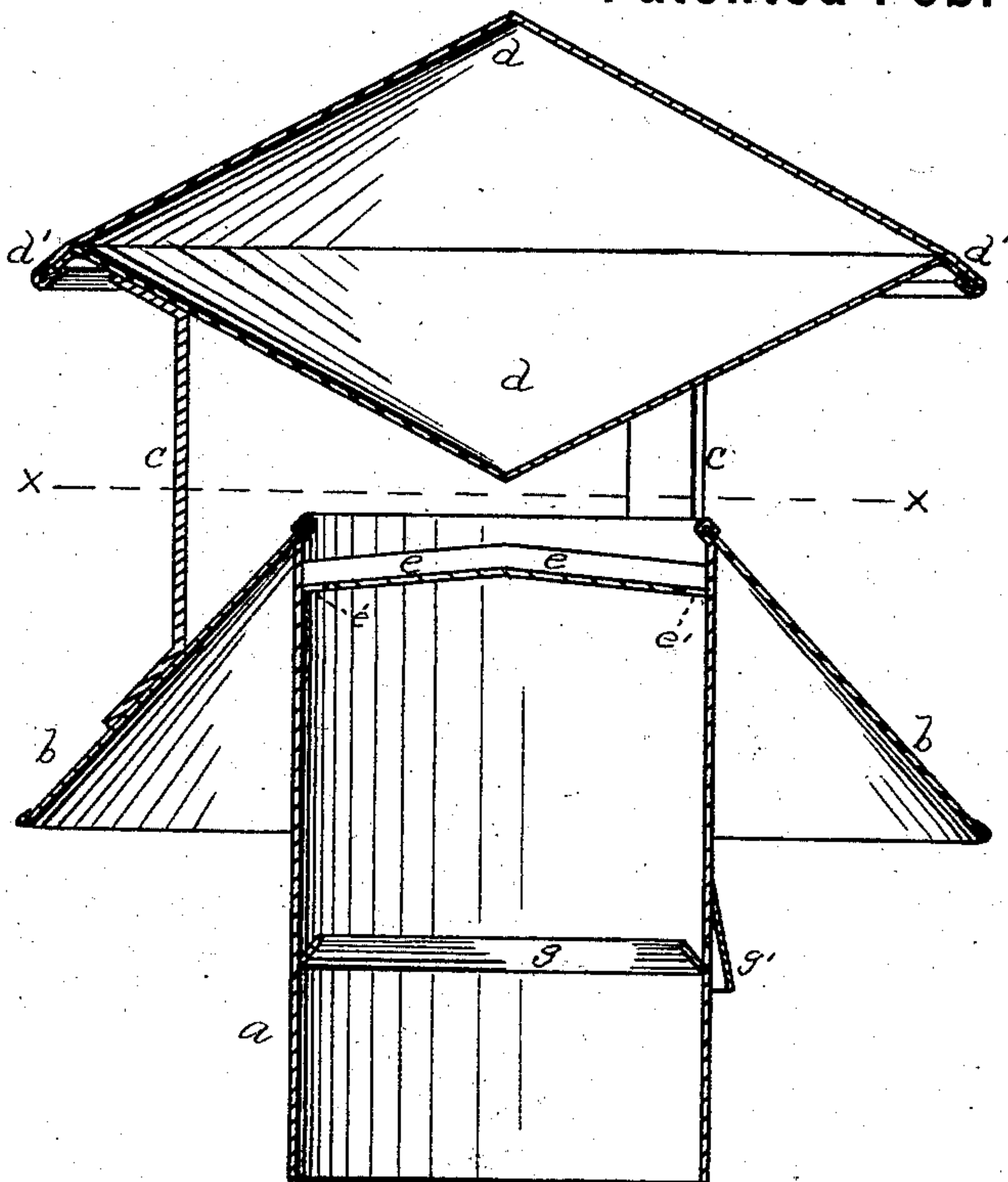


Fig. 1.

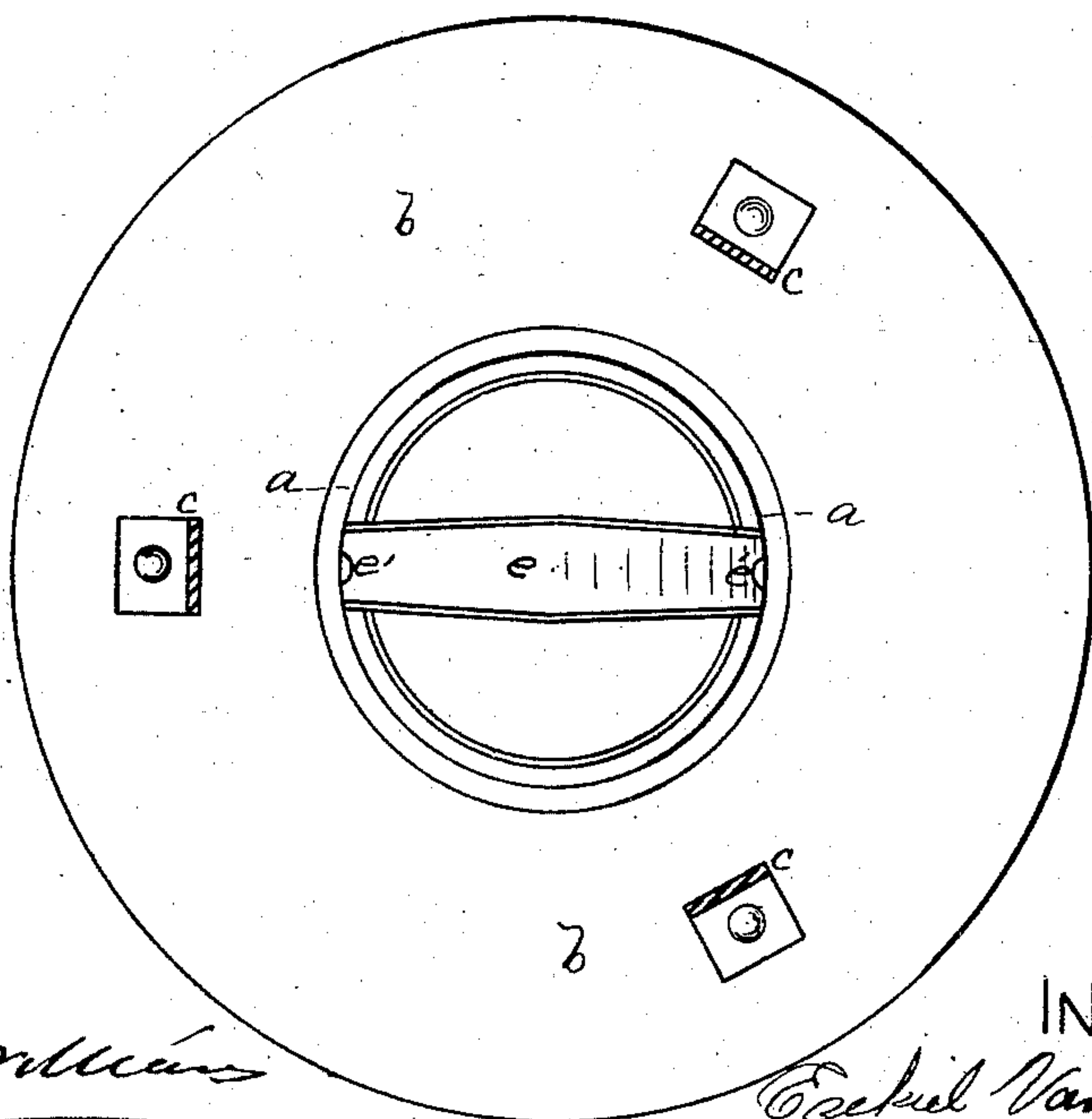


Fig. 2.

WITNESSES

B. M. Williams

George V. Mallon

INVENTOR

Ezekiel Van Noorden

By his Atty.

Henry W. Williams

UNITED STATES PATENT OFFICE.

EZEKIEL VAN NOORDEN, OF BOSTON, MASSACHUSETTS.

VENTILATOR FOR CHIMNEYS.

SPECIFICATION forming part of Letters Patent No. 238,185, dated February 22, 1881.

Application filed December 27, 1880. (No model.)

To all whom it may concern:

Be it known that I, EZEKIEL VAN NOORDEN, of Boston, in the county of Suffolk and State of Massachusetts, have invented a new and useful Improvement in Ventilators for Chimneys, of which the following is a specification.

This is an improvement upon and to be applied to my ventilator for which Letters Patent were granted me February 4, 1879; and it consists in the combination, with said ventilator, of certain devices providing for the shedding of the rain, thus preventing it from entering the chimney.

In the accompanying drawings, in which similar letters of reference indicate like parts, Figure 1 is a vertical section of my improved ventilator. Fig. 2 is a plan view below the line *x x*, Fig. 1.

a is the flue; *b*, the flange; *c c*, the posts, and *d* the cone, all constructed as in the Letters Patent above mentioned.

As the cone *d* has its vertex pointing down the chimney, the water, in case of rain, is apt to run down and drop from the center or vertex into the chimney. The drip *d'* extends around the edge of the cone or roof *d*, and in case there is little or no wind the water drops off the drip without running down into the chimney. In case the wind drives the rain in against the lower portion of the cone below the drip, the

water runs down and drops off the cone at its lowest point (or vertex) into the conductor *e*, which extends across the top of the flue *a*, and is usually a little higher near the center. The water runs from the conductor *e*, through the holes *e' e'* at its opposite ends, down the inside of the flue, and is caught in the gutter *g*, (running around the inside of the flue,) and thence passes out through a hole in the flue under the guard *g'*. The gutter *g* and guard *g'* are not novel, but are quite common. Thus it will be seen that no water can run down the chimney either in a vertical or slanting rain.

Having thus fully described my improvement, what I claim, and desire to secure by Letters Patent, is—

1. The herein-described ventilator, consisting of the flue *a*, gutter *g*, flange *b*, cone *d*, supported as shown, and conductor *e*, provided with the drip-openings *e' e'*, all arranged and constructed substantially as and for the purpose set forth.

2. The ventilator described, consisting of the flue *a*, gutter *g*, flange *b*, conductor *e e'*, and the cone *d*, provided with the drip *d'*, and supported as shown, substantially as and for the purpose described.

EZEKIEL VAN NOORDEN.

Witnesses:

HENRY W. WILLIAMS,
GEORGE V. MALLON.