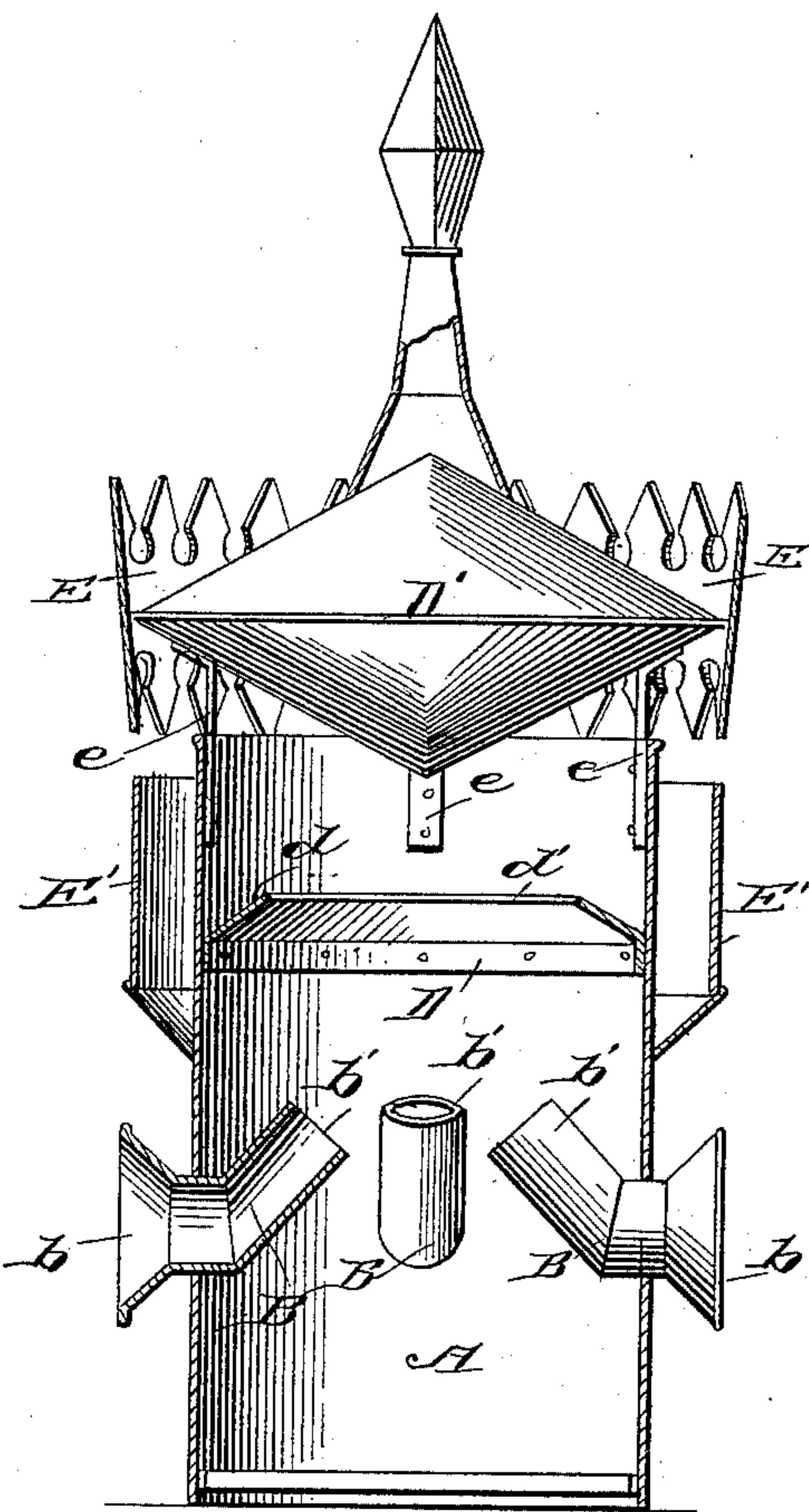


Patented Oct. 30, 1888.

*Fig. 2.*



BY *G. Lemley.*  
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# UNITED STATES PATENT OFFICE.

GEORGE LEMLEY AND DAVID LEMLEY, OF NEW ORLEANS, LOUISIANA.

## VENTILATOR.

SPECIFICATION forming part of Letters Patent No. 391,902, dated October 30, 1888.

Application filed December 17, 1887. Serial No. 258,180. (No model.)

*To all whom it may concern:*

Be it known that we, GEORGE LEMLEY and DAVID LEMLEY, of New Orleans, in the parish of Orleans and State of Louisiana, have invented a new and useful Improvement in Ventilators, of which the following is a full, clear, and exact description.

Our invention relates to an improvement in ventilators adapted for use in connection with houses, ships, steamers, or wherever a ventilation is required, and has for its object to provide a substantial, effective, and simple device capable of being manufactured at a minimum cost.

The invention consists in the construction and combination of the several parts, as will be hereinafter fully set forth, and pointed out in the claim.

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 side elevation of the device, and Fig. 2 a longitudinal vertical section.

In carrying out the invention the body A, preferably cylindrical in form, is constructed of brass, copper, galvanized iron, or other sheet metal, and of any desired size.

The body A is open at the bottom and top and provided with a series of circumferential apertures, through which pipes B are passed, having an outer funnel-like mouth, *b*, and upwardly-inclined converging inner ends, *b'*, as illustrated in Fig. 2.

Above the inner ends of the pipes B an annular deflecting-plate, D, is attached to the body in any suitable manner, having a conical upper surface, *d*, and a central aperture, *d'*, in said surface, disclosing in a top view the said inner ends of the pipes B.

A distance above the body A a conical cap, D', is supported by a series of vertical straps,

*e*, in such manner, as that the apex of the cone will center the aperture in the deflecting-plate. It usually consists of two conical plates united at the edges, their concave surfaces facing each other, as shown in Fig. 2, the upper conical plate serving as a finish to the cap and a base for a central ornament. An ornamental flange, E, may be attached to the edges of the cap, and the body may also be ornamented, as illustrated at E'.

In operation the air passing in through the flaring or funnel-shaped mouth of the pipes B, one of which will catch the wind, no matter in what direction it blows, escaping through the inner ends, is deflected by the plate D upward against the conical cap and by said cap outward, thus creating an upward draft capable of counteracting any draft having a downward tendency.

We do not confine ourselves to the upward inclination of inner sections of the pipes B, as said sections may have other inclinations—as, for instance, a downwardly one—without departing from the spirit of the invention.

Having thus described our invention, what we claim as new, and desire to secure by Letters Patent, is—

In a ventilator, the combination, with a body having an open upper end and a conical cap held above said open end, of a series of circumferentially-arranged bell-mouthed pipes projected through the body below the top, having inclined and converging inner ends, and a conical and centrally-apertured deflecting-plate, secured to the body between the pipes and cap, substantially as and for the purpose herein set forth.

GEOR. LEMLEY.  
DAVID LEMLEY.

Witnesses:

S. B. SIFERS,  
W. A. LEMLEY.