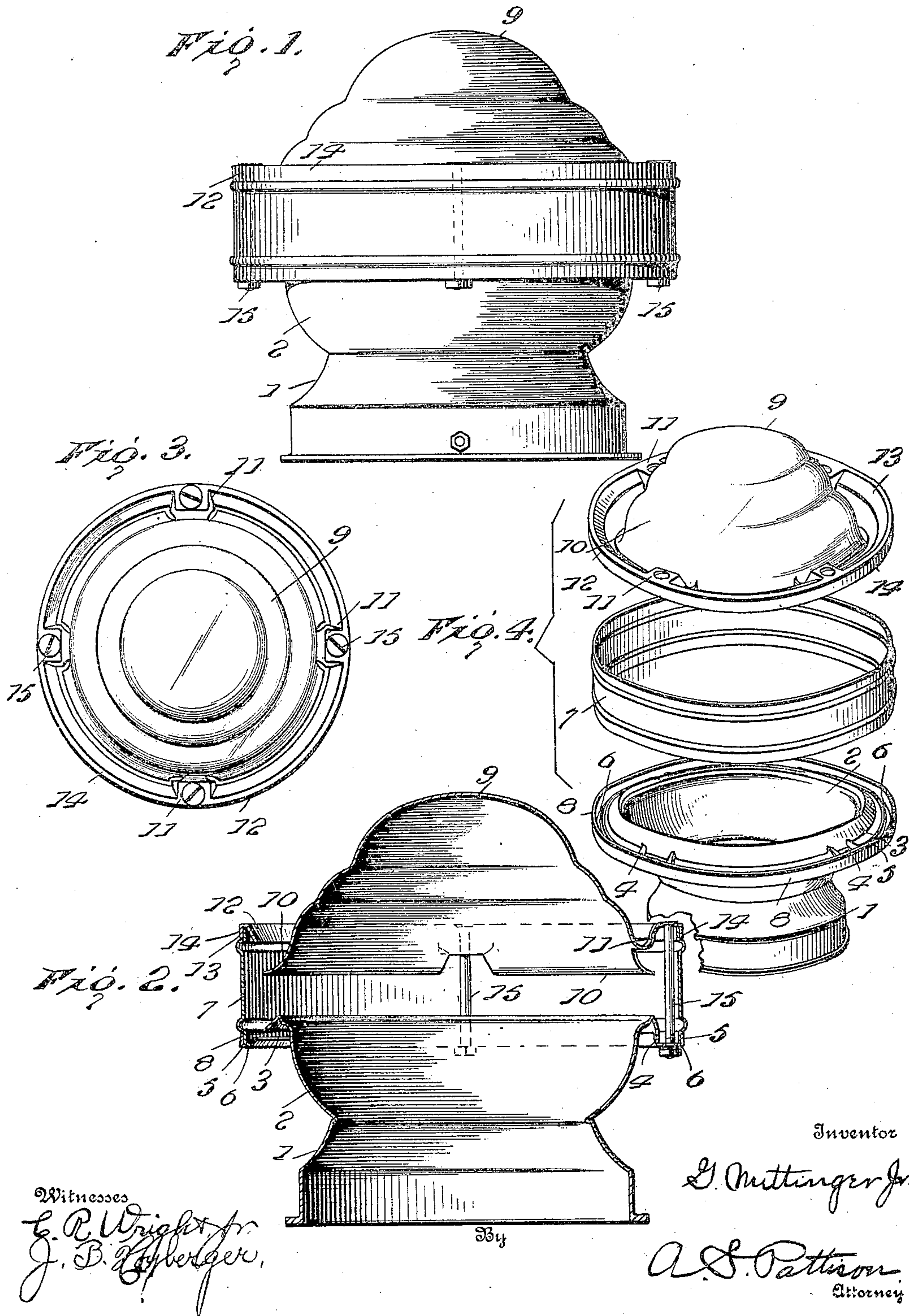


No. 838,637.

PATENTED DEC. 18, 1906.

G. MITTINGER, JR.
VENTILATOR.

APPLICATION FILED AUG. 22, 1906.



Witnesses
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GEORGE MITTINGER, JR., OF CLEVELAND, OHIO.

VENTILATOR.

No. 838,637.

Specification of Letters Patent.

Patented Dec. 18, 1906.

Application filed August 22, 1906. Serial No. 331,641.

To all whom it may concern:

Be it known that I, GEORGE MITTINGER, Jr., a citizen of the United States, residing at Cleveland, in the county of Cuyahoga and State of Ohio, have invented certain new and useful Improvements in Ventilators, of which the following is a specification, reference being had therein to the accompanying drawings.

My invention relates to improvements in ventilators.

The object of my invention is to provide a ventilator of the character described in which the protecting rim or band is more rigidly supported and in which the same is more readily attached.

Another object of my invention is to provide a more simple, cheap, and effective ventilator.

In the accompanying drawings, Figure 1 is a side elevation of my improved ventilator. Fig. 2 is a transverse vertical sectional view of Fig. 1. Fig. 3 is a top plan view, and Fig. 4 is a perspective view, of the several parts detached.

Referring now to the drawings, 1 represents the base of my improved ventilator, and which is of a circular globe-like form having the vertical rim-like form by which it is attached to the desired place. The globe-like portion 2 is provided with the downwardly-turned flange 3, which extends entirely around the globe portion 2 and forms a water-shed for carrying the water outwardly and preventing it from passing into the ventilator, as will be hereinafter more fully described. The globe portion 2 and flange 3 are stamped of a single piece of metal. Formed integral therewith are three or more outwardly-extending lugs 4, which carry a circular rim 5, which is provided with a slight depression 6, in which the band 7 of the ventilator rests. The said flange is provided with a vertical wall 8, which is adapted to engage and firmly hold the band 7. This rim is also formed integral with the lugs and is formed by cutting out a portion of the sheet of metal between the lugs and stamping it in the form shown, thus allowing of the free passage of the air upward between the rim and the downwardly-turned water-shed.

The cover 9 of the ventilator is of a dome-shaped form and is also stamped from a single piece of metal or may be cast as desired. The lower edge 10 of said dome is turned out-

wardly, as shown, for the purpose of conveying the water outwardly over the flange 3 to prevent the water from entering the ventilator. The said dome 9 has formed integral therewith the lugs 11, which extend upwardly and have formed integral therewith the annular rim 12, which is provided with a recess 13, adapted to receive the upper edge of the band 7, and thus the dome is supported upon said band. The rim 12 is provided with the vertical portion 14, adapted to engage the outside vertical wall of the band and more firmly hold the same.

The upper ends of the upwardly-turned lugs 11, carried by the dome 9, and the lower ends of the downwardly-turned lugs 4 of the lower portion 2 are so arranged that the band is a considerable distance above and below the flanges 3 and 10, whereby the water is prevented from entering the space between the dome 9 and 2 and at the same time allowing of the free passage of air from between the same.

Passing through the lugs 4 and 11 of the two sections are screw-bolts 15, which have nuts on their lower ends on the outside of the lugs 4, and said bolts being vertically arranged close to the band 7 and clamp the two rims 12 and 5, together with the band, within the grooves carried thereby and firmly locks the three parts of which the ventilator is composed in their normal position and form a simple, cheap, and compact ventilator of the character described.

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

1. A ventilator, comprising a lower and upper section, a band surrounding the space between the sections and bolts for clamping the band between the sections.

2. A ventilator, comprising a lower and upper section, a band surrounding the space between the sections, and vertically-arranged bolts for clamping the band between the sections.

3. A ventilator, comprising a lower and upper section, a band surrounding the space between the sections, and vertically-arranged bolts clamping the sections upon the upper and lower edges of the band.

4. A ventilator, comprising a lower and upper dome-shaped section having outwardly-extending lugs stamped integral herewith, a band surrounding the space be-

tween the sections and supported between the lugs of the two sections, and vertically-arranged bolts passing through the lugs and clamping the same on the upper and lower edges of the band.

5 5. A ventilator, comprising an upper and lower section having outwardly-extending lugs, circular flanges or collars carried by the lugs, a band supported between the said col-
10 lars and vertical bolts passing through the lugs and locking the band between the circular flanges.

6. A ventilator, comprising an upper and lower section having outwardly-turned
15 edges, outwardly-extending lugs carried by the outwardly-turned edges of the sections, a circular rim formed integral with the lugs, a band resting within the circular flanges and vertical bolts passing through the lugs and
20 clamping the circular flange on the upper and lower edges of the band.

7. A ventilator, comprising a hollow lower section having a downwardly-turned circular flange, downwardly-inclined lugs carried
25 by the flange, a circular rim formed integral with the lugs and having a circular recess in its upper face, a circular band resting within the recess, a dome-shaped member having an outwardly-extending flange, upwardly-extending lugs carried by the said flange, a circular rim carried by the lugs and having a
30 recess in its lower face, and said recess receiving the upper edge of the band and bolts passing vertically through the lugs and clamping the band between the two rims.
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8. A ventilator, comprising a lower and upper section, a band surrounding the space between the sections, and means for clamp-

ing the sections together for holding the ring between the same.

9. A ventilator, comprising a lower and upper section, a band surrounding the space between the sections, and bolts passing through the sections and clamping the ring between the sections.

10. A ventilator, comprising an upper and lower section, outwardly-extending lugs formed integral with the sections, a circular rim formed integral with the lugs, a band resting within the circular flanges, and means
50 for clamping the sections together whereby the band is clamped within the circular flanges.

11. A ventilator, comprising a hollow lower section having a downwardly-turned
55 circular flange, downwardly-inclined lugs formed integral with the flange, a circular rim formed integral with the lugs and having a circular recess in its upper face, a circular band resting within the recess, a dome-shaped member having an outwardly-extending flange, upwardly-extending lugs formed
60 integral with the flange, a circular rim carried by the lugs and having a circular recess in its lower face, and receiving the upper edge of the band, and bolts passing vertically through the outer ends of the lugs and clamping the band within the grooves in the rim.

In testimony whereof I affix my signature
70 in presence of two witnesses.

GEORGE MITTINGER, Jr.

Witnesses:

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AUG. E. RIESTER.