G. HANSON.

VENTILATOR.

APPLICATION FILED APR. 7, 1920.

1,393,775.

Patented Oct. 18, 1921.

2 SHEETS—SHEET 1.

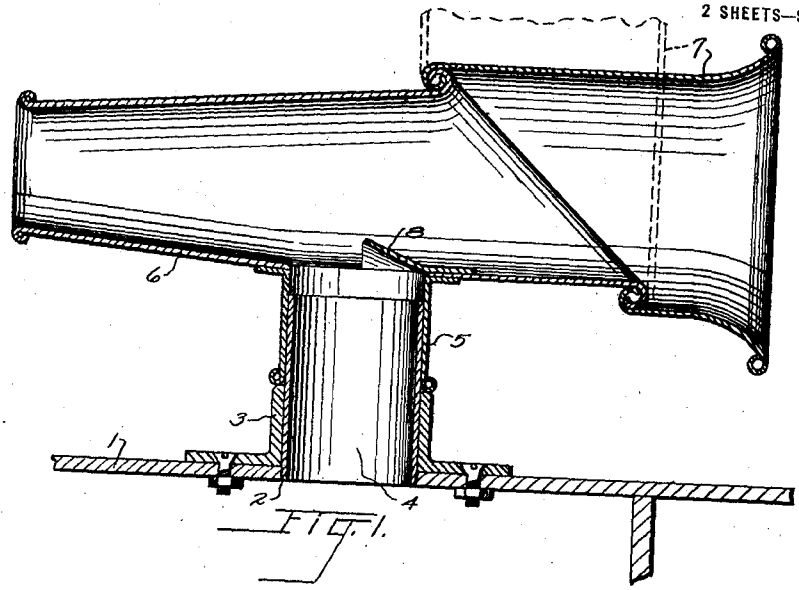

FIG. 1.

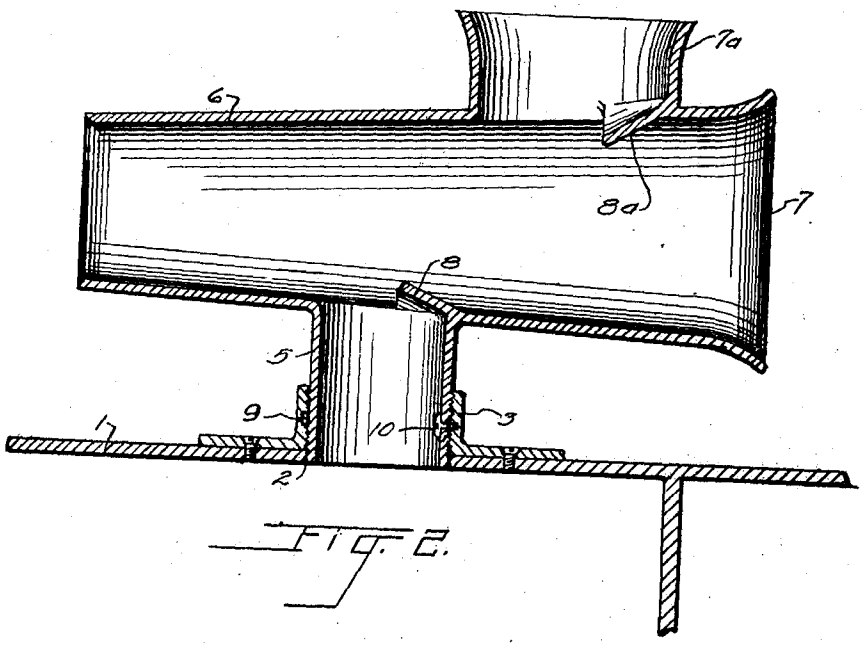

FIG. 2.

Witnesses

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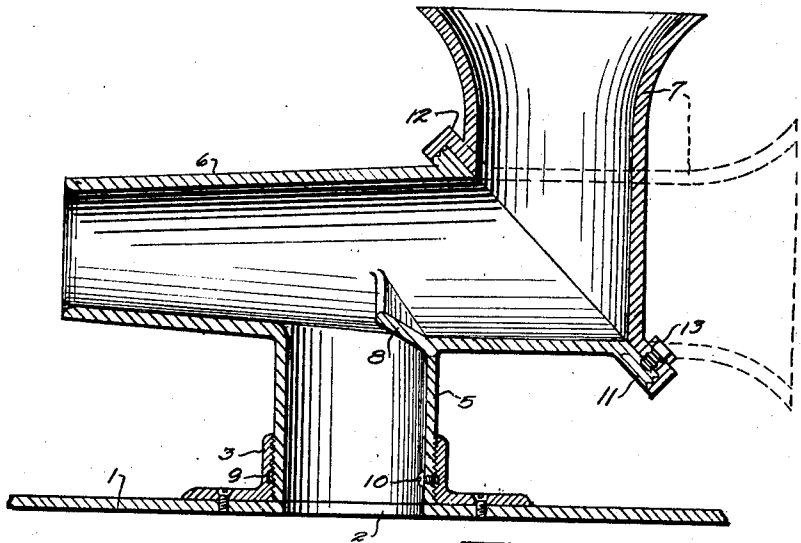

FIG. 3.

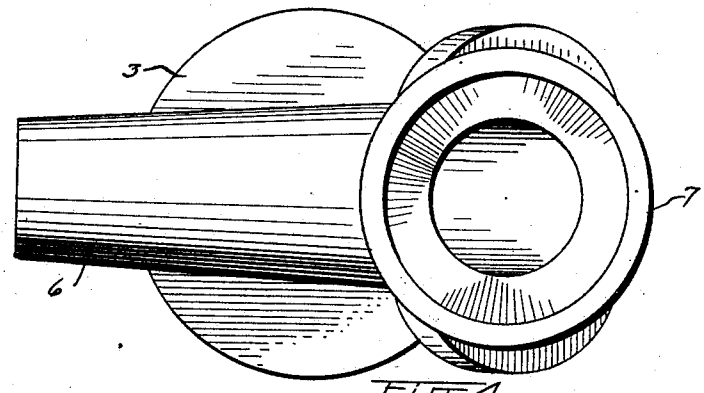

FIG. 4.

Witnesses
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UNITED STATES PATENT OFFICE.

GEORGE HANSON, OF WILMINGTON, NORTH CAROLINA.

VENTILATOR.

1,393,775. Specification of Letters Patent. Patented Oct. 18, 1921.

Application filed April 7, 1920. Serial No. 371,923.

To all whom it may concern:

Be it known that I, GEORGE HANSON, a citizen of Sweden, residing at Wilmington, in the county of New Hanover and State of North Carolina, have invented certain new and useful Improvements in Ventilators, of which the following is a specification.

This invention relates to improvements in ventilators and its prime object is to provide ventilating means aboard ship for cabins, bath rooms and such compartments generally as may need ventilation. A further object is to provide a ventilator that is very simple in construction and arrangement of parts, efficient and automatic in operation. With the foregoing and other objects in view the invention consists in the combination and arrangement of parts to be hereinafter fully described, pointed out in the appended claims and illustrated in the accompanying drawings which form a part of this specification and in which—

Figure 1 is a longitudinal sectional view through a ventilator constructed according to my invention illustrating its application.

Fig. 2 is a similar view of a modified form of ventilator.

Fig. 3 is a view of a slightly modified form of ventilator.

Fig. 4 is a top plan view of Fig. 3.

Like reference characters denote corresponding parts throughout the several views.

The reference numeral 1 denotes the roof or wall of a deck house or other compartment to be ventilated and 2 the draft opening therein. About the draft opening and secured to the wall 1 is the flanged collar 3. In the form of ventilator shown in Fig. 1 I provide an insert tube 4 suitably secured to the collar 3 and arranged upon the end of the collar 3 is the hollow stem 5 of the cowl 6, said stem rotating around said insert tube. The body portion of the cowl is disposed horizontally and it is provided at one end with the mouth piece 7 so hinged thereto that it may be manually moved into a position at right angles to the body of the cowl, as shown in dotted lines, or vice versa. This arrangement permits a horizontal or a vertical air intake. The body portion of the cowl preferably tapers slightly from the hinged to the non-hinged end. A baffle plate 8 is provided within the body of the cowl which extends partly over the stem 5, said stem communicating with the cowl body, the free end of said baffle plate being bent inwardly as shown. Air blowing through the cowl from the mouth piece 7 will strike the baffle plate and so not blow down the stem 5 and a draft through said stem and through the insert tube 4 is thus created thus ventilating the compartment.

In Fig. 2 the collar 3 is formed with a substantially semicircular groove 9 into which the end of a screw 10 is disposed that connects the said collar to the rotary stem 5 of the cowl 6, the cowl stem and collar being screwed one into the other as shown. In this case the stem and baffle plate 8 are formed integral with the cowl body and the said body is formed with the two mouths 7, 7^a separated by the baffle plate 8^a and air coming in from either or both mouths will rush through the cowl and create a draft in the stem and ventilate the compartment. This form of cowl can only be swung half way around and back.

In the form of cowl shown in Figs. 3 and 4 the cowl body 6 is formed with the raised threaded annular shoulder 11 obliquely disposed and engaged by the threaded flange 12 of the mouth piece 7. A set screw 13 serves to retain the mouth piece in adjusted position with relation to the cowl body. The mouth piece may be manually turned upon the cowl body so that it is disposed at right angles thereto or in alinement therewith to receive air drafts coming in a horizontal or vertical plane.

What is claimed is:—

1. In a ventilator, a cowl, a stem communicating therewith, a collar operatively supporting said stem, a baffle plate at the junction of said cowl body and stem, and a mouth piece adjustably secured to one end of said cowl body whereby air may be introduced into said cowl at different angles thereto.

2. In a ventilator, a cowl, a stem communicating therewith, a collar operatively supporting said stem, a baffle plate at the junction of said cowl body and stem, a raised threaded annular shoulder formed upon one end of said cowl body at an oblique angle thereto, a mouth piece, and a threaded flange formed upon said mouth

piece and disposed at an oblique angle thereto for adjustable engagement with said annular shoulder, the movement of said flange upon said shoulder causing an adjustment of said mouth piece with relation to said cowl.

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

GEORGE HANSON.

Witnesses:

WILLIAM ROBERT GEDDES,

CHARLES FREDERICK GEDDES.