

No. 663,173.

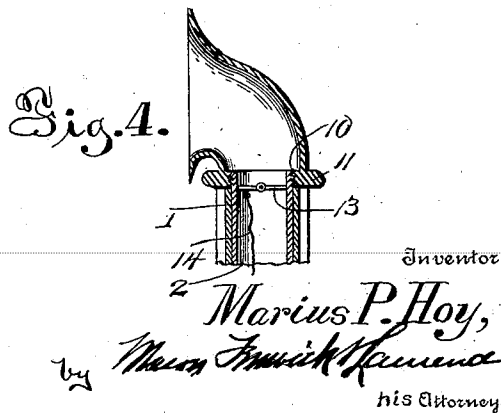
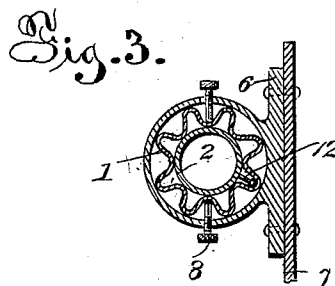
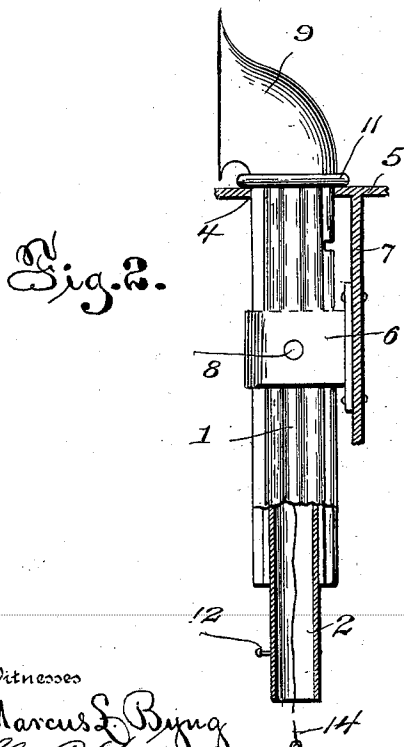
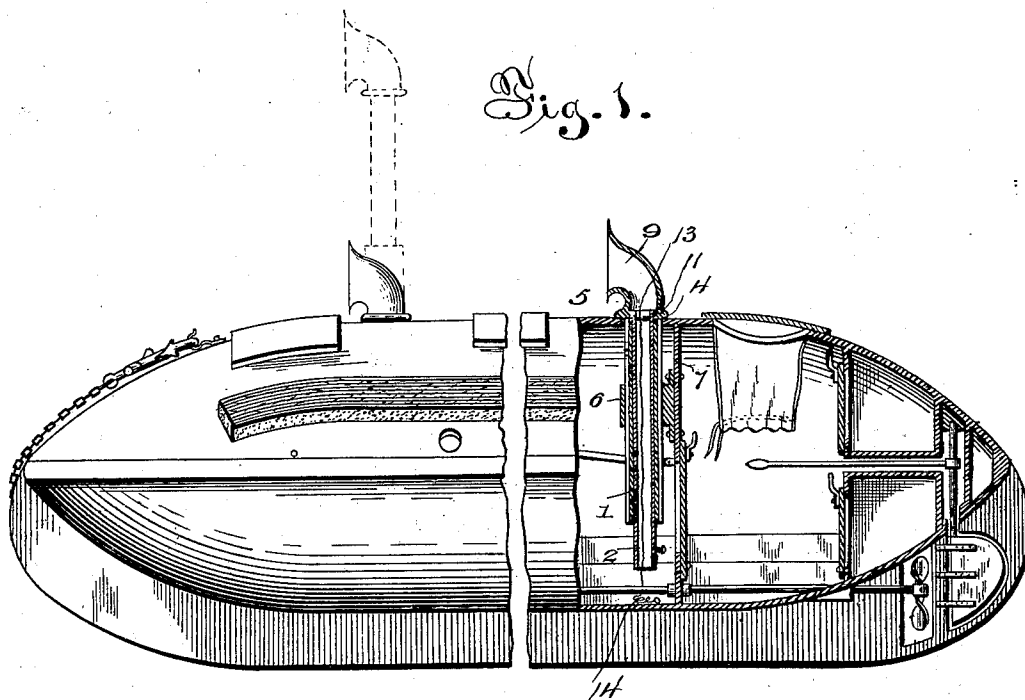
Patented Dec. 4, 1900.

M. P. HOY.

MEANS FOR VENTILATING BOATS.

(Application filed Apr. 14, 1900.)

(No Model.)



Witnesses
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UNITED STATES PATENT OFFICE.

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MEANS FOR VENTILATING BOATS.

SPECIFICATION forming part of Letters Patent No. 663,173, dated December 4, 1900.

Original application filed June 9, 1899, Serial No. 719,995. Divided and this application filed April 14, 1900. Serial No. 12,878. (No model.)

To all whom it may concern:

Be it known that I, MARIUS P. HOY, a citizen of the United States, residing at Tacoma, in the county of Pierce and State of Washington, have invented certain new and useful Improvements in Means for Ventilating Boats; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to improvements in means for ventilating boats, and particularly life-boats which are entirely inclosed to exclude the water when floating upon the same.

It consists in a device composed of telescoping tubes, the lower tube being corrugated and mounted in a suitable bracket or support within the boat, while the upper tube is inclosed within the lower tube and adapted to be moved back and forth within the same to vary the height of the upper air-receiving end of the said inner tube.

It also consists in certain other novel constructions, combinations, and arrangements of parts hereinafter fully described and specifically claimed.

In the accompanying drawings, Figure 1 represents a life-boat, partially in side elevation and partially in vertical section, showing my improved air-tubes applied thereto. Fig. 2 represents an enlarged detail view of an air-tube, a portion of the same being shown in section. Fig. 3 represents a horizontal section through the delivery-tube, and Fig. 4 is a detail vertical sectional view of the upper air-receiving end of the tube.

My improved air-tube is designed especially for boats of a similar construction to that described in an application filed June 9, 1899, Serial No. 719,995. In boats of this character the interior compartments are entirely inclosed, so that some means must be provided for introducing air for the occupants to breathe. It is desirable also to provide a means of such a character that it may be adjusted to different heights to correspond to the condition of the water upon which the boat is moving. In smooth water it is not necessary to have the air-receiving apparatus

extend far above the top of the boat; but in severe or stormy weather, when the waves are rolling high and water is likely to be dashed into the ends of the tubes, it is advisable to raise such tubes to a considerable distance above the boat. With all these things in view I construct my improved air-introducing mechanism of outer and inner tubes, as 1 and 2, respectively. The outer tube is preferably corrugated, as clearly seen in Figs. 2 and 3 of the drawings, and is inserted in an opening, as 4, in the top of the boat 5. The tube 1 is also held in place by means of a bracket, as 6, which may be secured to one of the bulkheads, as 7, of the boat or to any other suitable support. The bracket 6 incloses the tube 1 and may be provided with set-screws, as 8 8, which engage the periphery of the tube 1 to hold it in different adjusted positions. It will thus be apparent that the tube 1 may be arranged at different heights with respect to the top of the boat.

Located within the tube 1 is the telescoping tube 2, adapted to move up and down within the same, the lower end of the tube 2 being open to deliver air into the boat. The said inner tube 2 may be held in its adjusted position by frictional contact with the outer tube, or any mechanical means not shown may be employed for this purpose, no claim being made for the same in this application. The upper end of the tube is preferably provided with an air-collecting funnel, as 9, which is preferably formed of hard rubber and is screw-threaded at its base, so as to engage corresponding threads upon the upper end of the tube 2, as at 10. The base of the funnel 9 is also provided with a collar, as 11, which extends out upon all sides beyond the upper edge of the tube 1. The inner tube 2 is preferably provided with a pin or projection 12, which is of a suitable length to engage the corrugations of the tube 1 as seen in Fig. 3. The projection 12 is sufficiently near to the lower end of the tube 1, so that when the said tube is lowered the projection may be brought into engagement with any one of the corrugations of the tube 1. Thus when it is desired to turn the funnel 9 in a different direction, the inner tube is lowered

and the pin 12 brought into engagement with the proper corrugation of the tube 1 to hold the said funnel in the desired position. The amount of air introduced through the tube 2 may be controlled, if desired, by means of a damper, as 13, pivotally mounted near the upper end of said tube and provided with an operating cord or wire, as 14, which extends downwardly and into the boat, so as to be within easy reach of persons occupying the said boat.

It will be apparent that air-tubes of this character can be adjusted not only to different heights, but so as to receive air from different directions, the telescoping operation of the tubes permitting of the former adjustment and the projection 12 facilitating the latter. As showing the further utility of the air-tubes, it will be evident that they may, when extended, be used as masts for holding the sails, if desired.

It will be apparent that if the bracket extended to the wall of the boat one tube might be used instead of two, the bracket acting as an outer tube.

It will be further apparent that the tubes may be made without corrugations without departing from the spirit of my invention. It is desirable, however, to construct the tube so as to have a telescopic action, whereby the tube carrying the air collected may be moved to different distances from the boat.

Having thus described the invention, what is claimed, and desired to be secured by Letters Patent, is—

1. A mechanism for supplying air to the interior of a boat, comprising inner and outer telescoping tubes, a support for holding the outer tube at different heights, and means for holding the inner tube so as to collect the air from different directions.

2. A ventilating apparatus for boats, com-

prising an outer corrugated tube and an inner telescoping tube, a bracket for supporting the said tubes, set-screws in the bracket for engaging the outer tube to hold the same at different heights, the ends of the said tubes being open to form a passage-way for air entering the boat.

3. A ventilating mechanism for boats, comprising an outer corrugated tube and an inner telescoping tube, a bracket inclosing the outer tube and supporting the same in the boat, set-screws mounted in the bracket and adapted to engage the corrugations of the outer tube for holding it at different adjusted heights, a projection secured to the inner tube and adapted to engage any one of the corrugations of the outer tube, whereby the inner tube may be turned to receive air from different quarters, and an air-receiving funnel secured to the upper end of the inner tube for collecting the air, substantially as described.

4. A ventilating mechanism for boats, comprising an outer tube, a bracket for adjustably supporting the same, an inner tube moving in the said outer tube, an air-collecting funnel upon the upper end of the inner tube, a projection upon the inner tube for engaging corrugations formed upon the outer tube to hold the said funnel in different directions, a damper in the inner tube, and means extending into the boat for operating the said damper, whereby the quantity of air introduced through the tubes may be controlled, substantially as described.

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

MARIUS P. HOY.

Witnesses:

FRANK J. MILLER,
W. A. PARISH.