C. Sinclair.
Air Port.

No. 44,349. Patented Sept. 20, 1864.

Fig: 2.

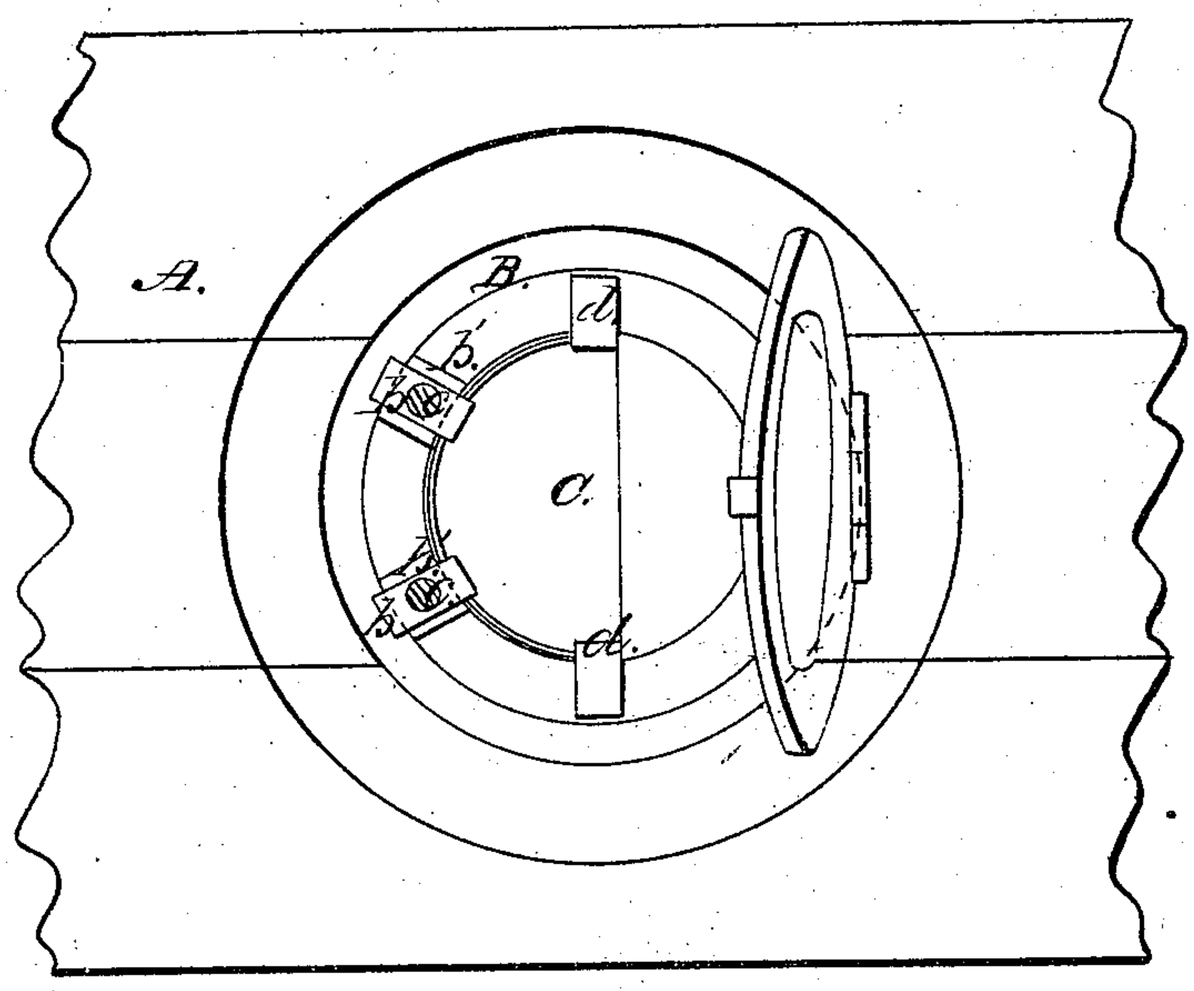
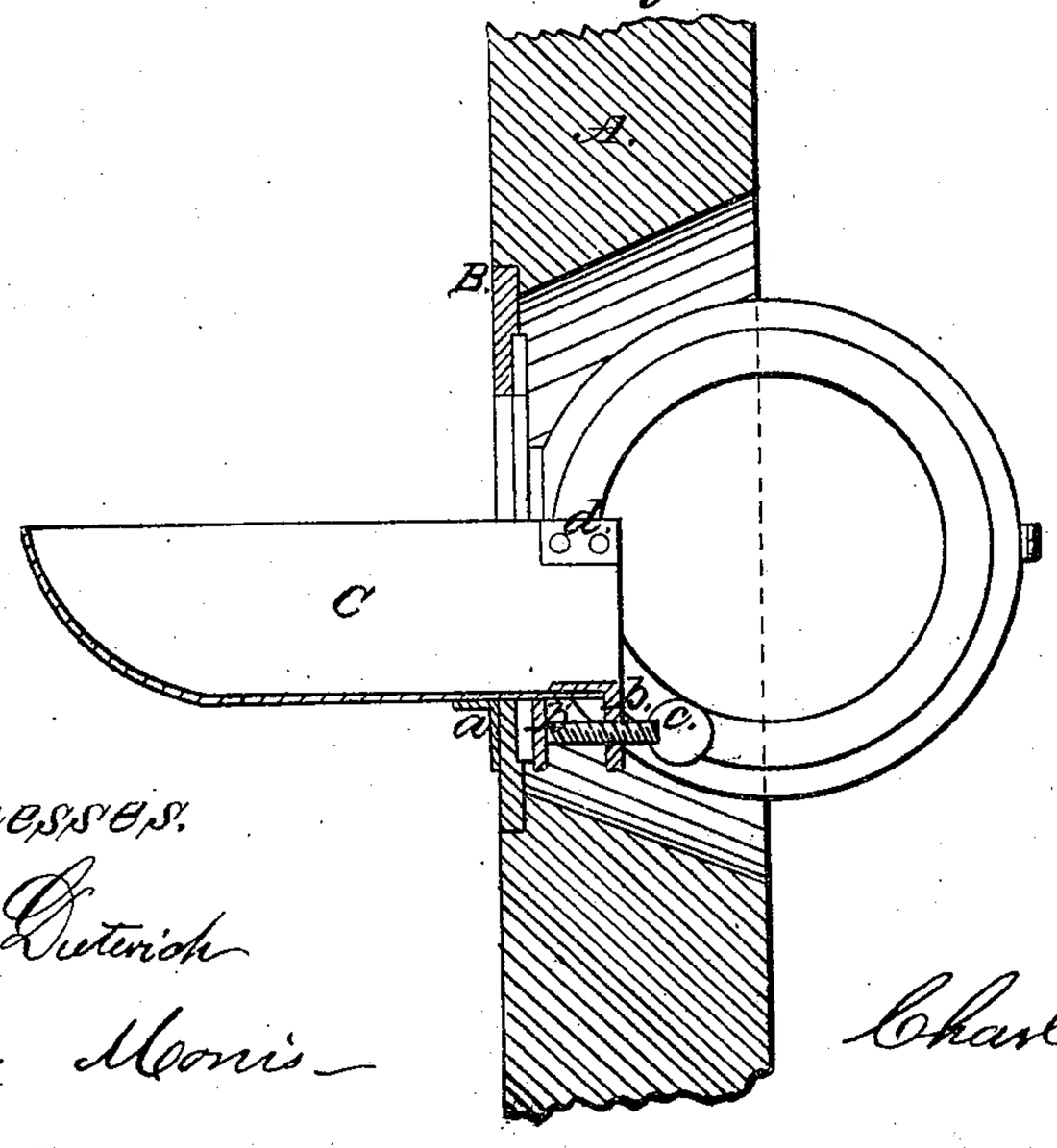


Fig: 1.



Witnesses.

Gustave Dieterich

Henry Morris

Inventor.

Charles Sinclair

UNITED STATES PATENT OFFICE.

CHARLES SINCLAIR, OF NEW YORK, N. Y.

IMPROVED VENTILATOR FOR SHIPS.

Specification forming part of Letters Patent No. **44,349**, dated September 20, 1864.

To all whom it may concern:

Be it known that I, CHARLES SINCLAIR, of the city, county, and State of New York, have invented a new and Improved Ventilating Attachment to Ships; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to fully understand and use the same, reference being had to the accompanying drawings, forming part of this specification, in which—

Figure 1 represents a horizontal section of a port-hole with my improved attachment. Fig. 2 is an inside view of the same.

Similar letters of reference indicate like parts.

This invention relates to a ventilator to be attached to the port-hole on the side of a vessel to throw air into the state-rooms or hold.

The invention consists in the employment or use of a scoop, provided with rigid and adjustable lugs at such a distance apart that the same can be readily slipped over the edge of a port-hole in the side of a vessel, and fastened with its concave side toward the bow in such a manner that by the forward motion of the vessel itself a quantity of air is caught by the scoop and thrown into the state-room, and whenever it is desirable to close the port hole the scoop can be readily removed without loss of time, and additional lugs are so arranged that the ventilator is prevented falling overboard when the screws are unfastened.

A represents the side of a vessel, which is supposed to move in the direction of the arrow marked near it in Fig. 1. This side is perforated with the usual number of port-holes or bull's-eyes, B, to admit light and air into the several state-rooms and compartments of the vessel. These port-holes are generally closed by windows which open inward, and when the same are open the outside of the vessel presents a smooth surface from one end to the other, and as said vessel moves ahead the air rushes along its outside, but very little finds its way into its interior.

In order to catch the air and throw it in the interior of the vessel, I attach a ventilator, C, which consists of a scoop made of sheet metal or any other suitable material and provided with lugs *a b* at such a distance apart that they catch over the inner and outer edge of the port hole B, as clearly shown in Fig. 1 of the drawings. The lugs *b* at the inner end of the scoop are tapped to receive thumb-screws *c*, the ends of which turn loosely in plates *b'*, in such a manner that when the scoop is placed on the edge of the port-hole and the screws are turned in the proper direction the plates *b'* are forced up against the inside edge of the port-hole, and the scoop is firmly retained in position. By means of the screws, therefore, the lugs *b b'* can be adjusted to the thickness of the sides of different port-holes, and when the screws are unscrewed far enough to release the scoop the lugs *d* at the extreme edges of the scoop will still prevent the same from falling overboard.

My invention can thus be readily manufactured and sold without special reference to the thickness of the sides of the vessel for which the same are to be used. By means of the adjustable lugs *b b'* they can be readily adapted to different vessels or different port-holes, and they can be intrusted into the hands of careless persons, since they cannot drop overboard accidentally, being retained by the additional lugs *d* when the screws are opened.

I claim as new and desire to secure by Letters Patent—

The ventilator C, provided with rigid lugs *a d* and adjustable lugs *b b'*, and operating in combination with the port-hole B of a vessel, in the manner and for the purpose substantially as herein shown and described.

CHARLES SINCLAIR.

Witnesses:
W. HAUFF,
THEO. TUSCH.