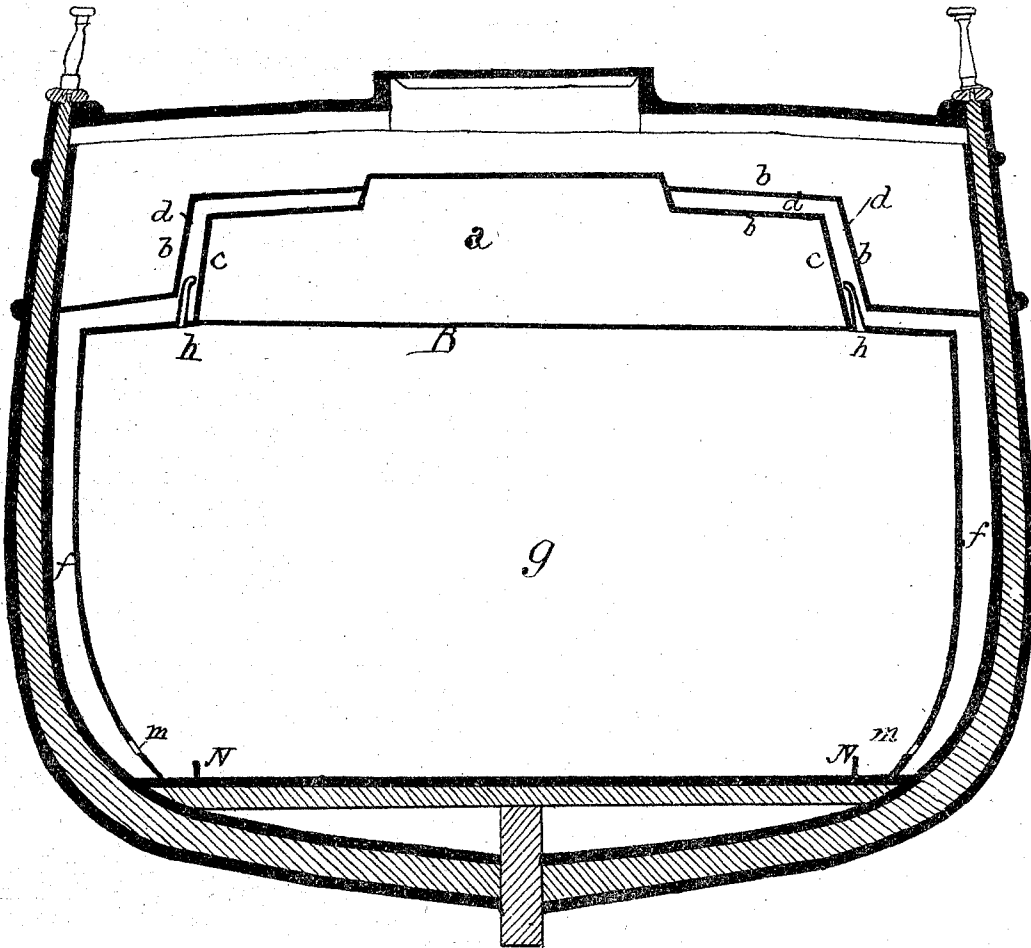


J. F. BALDWIN.

Refrigerator-Chambers for Ships. &c.

No. 128,581.

Patented July 2, 1872.



WITNESSES.

Wm. Barron,
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per
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UNITED STATES PATENT OFFICE.

JOSEPH F. BALDWIN, OF PROVINCETOWN, MASSACHUSETTS.

IMPROVEMENT IN REFRIGERATOR-CHAMBERS FOR SHIPS, &c.

Specification forming part of Letters Patent No. 128,581, dated July 2, 1872.

To all persons to whom these presents shall come:

Be it known that I, JOSEPH F. BALDWIN, of Provincetown, in the county of Barnstable and State of Massachusetts, have invented a certain new and useful Improved Construction of Refrigerator-Chambers; and that the following is a full and exact description of the same, reference being had to the accompanying plate of drawing.

The present invention relates to the construction of a chamber for the preservation of animal and vegetable substances, and is more especially intended for ships, although it is as well applicable to a similar purpose on land; and the invention particularly relates to improvements on the invention embraced in Letters Patent issued to me, dated July 6, 1869, and numbered 92,246. The invention consists of a refrigerator-chamber having an ice-chest outside, but resting directly upon it, and an air-space surrounding its sides and communicating with it through holes at or near its floor, and a spout or tube or tubes entering its roof, and arranged to discharge the vapors, gases, &c., passing through them from it, (the refrigerator-chamber,) directly on their escape, against the sides of the ice-chest, producing their instantaneous condensation and a perfect and complete circulation of air through the refrigerator-chamber.

In the accompanying plate of drawing my invention is illustrated, the figure being a transverse vertical section, showing it in connection with the hull and deck of a vessel.

A in the drawing represents the hull of a vessel constructed in any suitable and proper mode; B, a deck of the vessel, constructed of iron or other suitable material; a, an ice-chest above deck B, constructed with two walls, b and c, with the inner one, c, made of metal. Between the two walls b and c there is an air-

space, d, connecting with the air-space f about the sides of the preservative or refrigerator-chamber g, constructed with the hull of the vessel below the deck B; h h, vertical pipes leading into refrigerator-chamber g at its top. These pipes h h are located within the air-space d, between walls b and c of ice-chest, and at their upper ends are turned toward the condensing-wall—that is, the inner one c of ice-chest a, causing the vapors escaping from the refrigerator-chamber g to impinge, directly on their escape, against the cold wall c of ice-chest, condensing whatever moisture they may contain. At the bottom of the chamber g ventilators m are placed, communicating with the interior of chamber g. A chamber constructed as above described, any increase of temperature in the upper part thereof produces a current of air through the pipes h (which I denominate condense-pipes) to the cold wall of the ice-chest, by impinging against which the moisture contained by them is condensed, cooling the air which passes down the air-space f, around the refrigerator-chamber, and from thence through the ventilator m into the refrigerator-chamber, for circulation through and about the interior thereof. N is the lime-trough.

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

The ice-chest a, refrigerator-chamber B, air-space d, holes m, and spouts h, combined and arranged substantially as described, for the purpose specified.

The above specification of my invention signed by me the 26th day of April, A. D. 1871.

JOSEPH F. BALDWIN.

Witnesses:

CHAS. J. TAYLOR,
EDWIN W. BROWN.