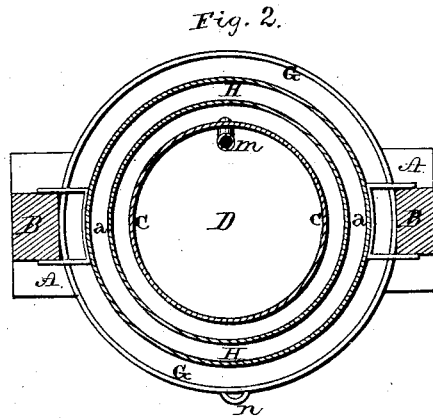
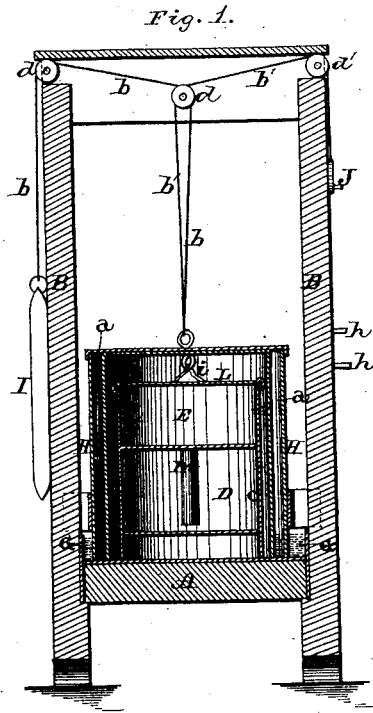


H. B. WALBRIDGE.
REFRIGERATOR.

No. 184,740.

Patented Nov. 28, 1876.



WITNESSES.

J. W. Garner
J. M. Burdham

INVENTOR.

H. B. Walbridge
per
F. A. Lehmann, Atty

UNITED STATES PATENT OFFICE.

HENRY B. WALBRIDGE, OF BROOKLYN, NEW YORK.

IMPROVEMENT IN REFRIGERATORS.

Specification forming part of Letters Patent No. 184,740, dated November 28, 1876; application filed May 3, 1876.

To all whom it may concern:

Be it known that I, HENRY B. WALBRIDGE, of Brooklyn, in the county of Kings and State of New York, have invented certain new and useful Improvements in Refrigerators; 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 pertains to make and use it, reference being had to the accompanying drawings, which form part of this specification.

The nature of my invention consists in the construction and arrangement of a refrigerator, as will be hereinafter more fully set forth.

The accompanying drawing fully illustrates my invention.

A represents a base or platform of suitable dimensions, supported upon feet, and provided with a vertical frame or scaffold, B. On the platform A is placed the case C, containing the provision-chamber D, and on top thereof of the ice-chamber E. The bottom of the case C is surrounded by a pan or circular trough, G, of suitable dimensions. H represents a double cylinder, or two cylinders, one within the other, with air-tight head at the top, open at the bottom, and forming an air-chamber, *a*, between the two shells, at the top, and around the sides. This double cylinder is suspended by a cord or chain, *b*, passing over pulleys *d d* in the frame or scaffold B, and having a counterbalancing-weight, I, attached to its outer end. Another cord or chain, *b'*, is also attached to said cylinder, which cord or chain passes over pulleys *d' d'* to the opposite side of the frame, and having a ring, J, at its loose end. By taking hold of this ring and pulling downward, the double cylinder H is raised, exposing to view the provision-chest and ice-box.

h h are pins in the frame B, on which the ring may be hooked when it is desirable to hold the cylinder in suspension. The weight I, being nearly, but not quite, so heavy as the two cylinders, or double cylinder, allows them to descend to their resting-

place in the pan or trough G, but so slowly as not to occasion any objectionable concussion.

The water from the ice-box is conducted through a pipe, *m*, into the pan G. When the water has accumulated to more than the depth of about half an inch it overflows, through an opening, *n*, into a suitable dripping-pan placed below the refrigerator, so that when the double cylinder has descended to its lowest limit of movement its lower edges will stand in about half an inch depth of water, thus forming an air-tight refrigerator.

L represents the cover of the ice-box E suspended from the inside, at the top of the double cylinder, by a cord or chain, *i*, of such length that when the refrigerator is opened to get at the provision-chest only, this cover L is not lifted; but when opened to get at the ice-box the cover is lifted with the ascending cylinder.

If it should be objectionable to have the cylinders H stand in water, the water from the melting ice will be conducted directly to the dripping-pan, and a pad of felt placed in the bottom of the pan or trough G, for the cylinder to stand on.

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

1. A refrigerator consisting of a case containing the provision-chamber and ice-box, and a suspended and counterbalanced case or cylinder surrounding the same, substantially as herein set forth.

2. In a refrigerator having a suspended and counterbalanced case or cylinder surrounding the provision-chamber and ice-box, a water-seal for rendering the refrigerator airtight when closed, substantially as herein set forth.

3. The combination of the case C, the double cylinder H, the counterbalancing-weight I, suspending-cord *b*, and lifting-cord *b'*, substantially as and for the purposes herein set forth.

4. The pan or trough G, and waste-pipe

m, leading from the ice-box E, in combination with the case C and double cylinder H, substantially as and for the purposes herein set forth.

5. The ice-box cover L, with cord *i*, in combination with the ascending and descending double cylinder H, as and for the purposes set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 20th day of April, 1876.

HENRY B. WALBRIDGE.

Witnesses:

F. A. LEHMANN,
R. M. BARR.