

H. W. B. HERVEY.

Combined Refrigerators and Water-Coolers.

No. 141,141.

Patented July 22, 1873.

Fig. 2.

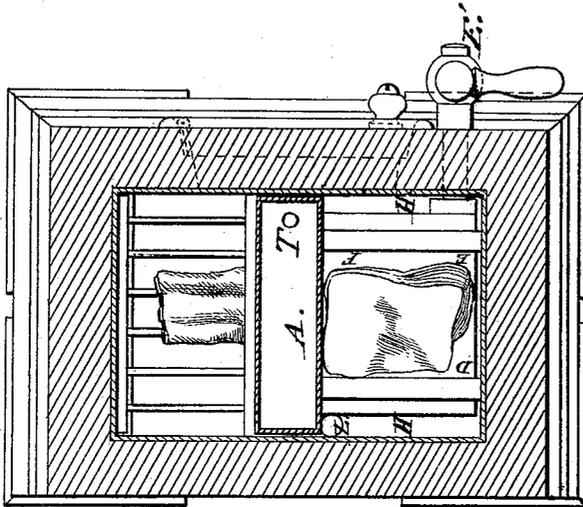
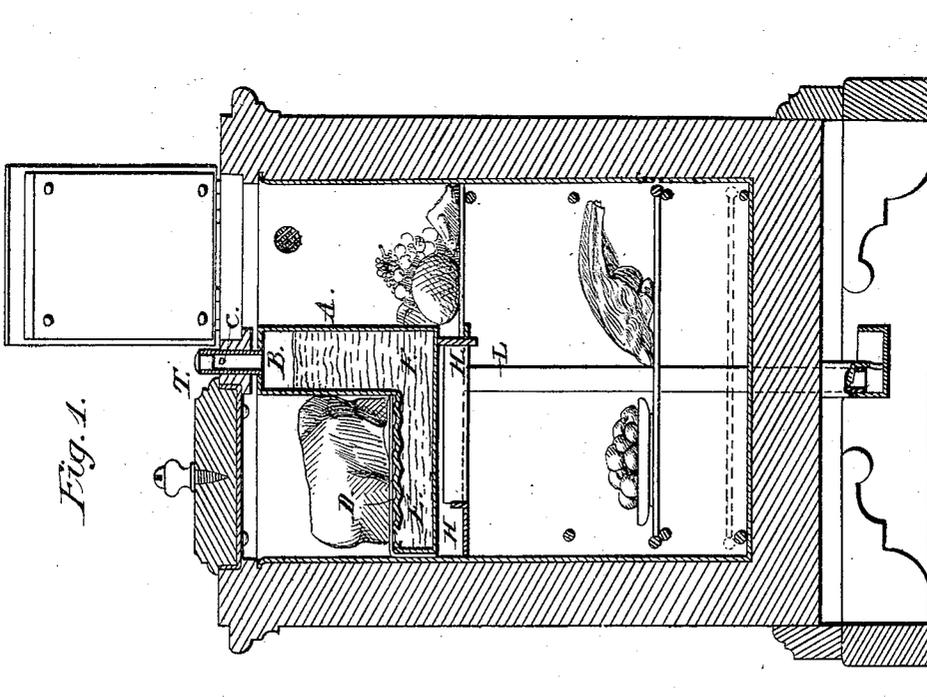


Fig. 1.



Attest;
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UNITED STATES PATENT OFFICE.

HENRY W. B. HERVEY, OF PHILADELPHIA, PENNSYLVANIA.

IMPROVEMENT IN COMBINED REFRIGERATORS AND WATER-COOLERS.

Specification forming part of Letters Patent No. **141,141**, dated July 22, 1873; application filed July 12, 1873.

To all whom it may concern:

Be it known that I, HENRY W. B. HERVEY, of Philadelphia, State of Pennsylvania, have invented an Improvement in Water-Coolers and Refrigerators Combined, of which the following is a specification:

The object of my invention is to furnish a supply of pure, cold, and healthy water for drinking purposes; the water being more thoroughly cooled and entirely free from any impregnation from foul air or bad ice; also, obtaining a better circulation of cold air for refrigerant purposes, and better facilities for cleansing than the ordinary combination refrigerators; reference being had to the annexed drawings making a part of this specification, of which—

Figure 1 is a central vertical section. Fig. 2 is a horizontal section.

Fig. 1.—A is a vertical tank, with an aperture, B, in its upper portion, into which is inserted a tube, T, for the introduction of water. This tube projects through the outer casing of the refrigerator, and is there supplied with a cap or stopper. A small hole, c, is made in the side of the tube for the purpose of admitting fresh air as the water is withdrawn. The tank, when in position, occupies the upper portion of the refrigerator, which it fills from front to back. D E F is a horizontal water-cooler and ice-rack, less in width and thickness than the vertical tank, thus allowing a free circulation of cold air to the lower portion of the refrigerator. The cooler and ice-rack is attached to and communicates, through the interior, with the vertical tank A, from which it receives its supply of water, whereby a constant pressure is maintained directly under the ice.

The water may be drawn off in a thoroughly-cold condition through the faucet, which, as also the tube T, may be withdrawn, and the tank and cooler removed at pleasure.

The inside of the refrigerator is furnished with suitable bearings, upon which rest the tank, cooler, and rack, A, D, E, and F. The bottom of the cooler E F is countersunk, so as to leave flanges projecting downward on

the sides of the cooler, which serve to conduct the drippings from the ice into the drip-troughs H H immediately below the cooler E F. These drip-troughs H H are securely fastened to the interior lining of the refrigerator, and conduct the drippings received from the cooler E F into the waste-pipe L, and thence to the outer air.

Fig. 2.—A is the vertical tank as seen from above, showing the aperture of the tube T for the introduction of water. D E F is the horizontal water-cooler and ice-rack, upon which the ice rests. H H are the drip-troughs, which receive the drippings from the ice by the way of the flanges on the under side of the cooler. L is the waste-pipe, which conducts the drippings out of the refrigerator. E' is the faucet, through which the cold water is drawn for use.

Some of the advantages of this invention are as follows: First, durability and simplicity of construction; second, the tank A, cooler E F, and rack D can be removed at pleasure, affording every facility for cleansing, when necessary; third, no wooden racks are required; fourth, a pressure of water is constantly kept under the ice from the tank A in the cooler E F, upon which the ice rests, and by which the water is made much colder than in the ordinary combination coolers; fifth, the water contained in the tank and cooler never becomes impregnated with the air from inside the refrigerator, said tank and cooler being entirely air-tight on the inside; sixth, the water and ice are kept separated, thereby supplying pure, cold, and healthy water.

What I claim as my invention, and desire to secure by Letters Patent, is—

The water-tank, water-cooler, and ice-rack, combined in one, made of any suitable materials, in combination with the air-tube, flanges, and drip-troughs, as arranged and described, for the purpose herein set forth.

H. W. B. HERVEY.

Witnesses:

L. B. GRIFFITH,
FRANCIS HOOD.