(No Model.)

J. W. BARNUM.

WATER COOLER AND REFRIGERATOR.

No. 305,269. Patented Sept. 16, 1884.

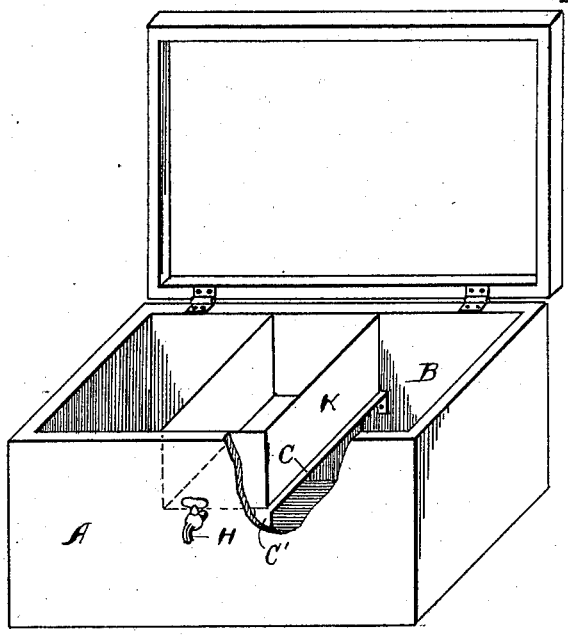

Fig. 1.

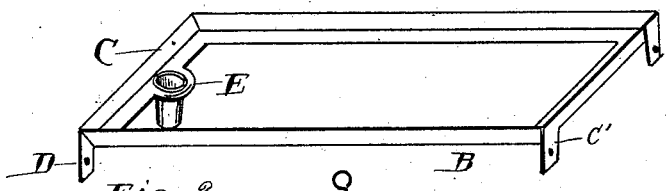

Fig. 2.

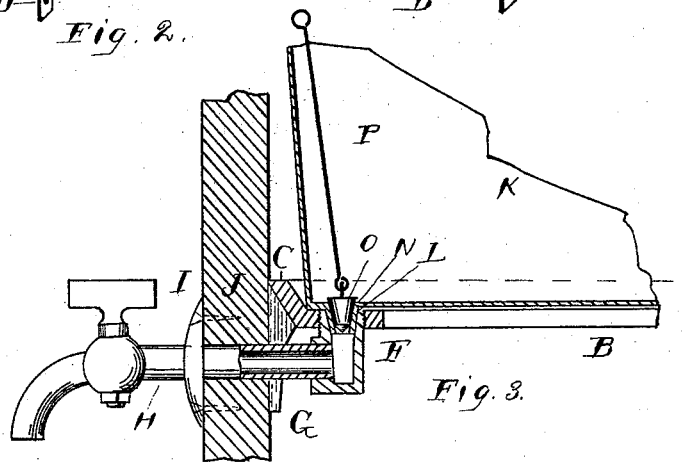

Fig. 3.

WITNESSES:

Robert Kirk

C. D. Zerbe

INVENTOR:

James W. Barnum.

By J. S. Zerbe

Attorney.

UNITED STATES PATENT OFFICE.

JAMES W. BARNUM, OF NEW ORLEANS, LOUISIANA.

WATER-COOLER AND REFRIGERATOR.

SPECIFICATION forming part of Letters Patent No. 305,269, dated September 16, 1884.

Application filed May 17, 1884. (No model.)

To all whom it may concern:

Be it known that I, JAMES W. BARNUM, of New Orleans, in the parish of Orleans and State of Louisiana, have invented a new and useful Improvement in Water-Coolers and Refrigerators, which improvement is fully set forth in the following specification and accompanying drawings, in which—

Figure 1 is a perspective view of my improved cooler and refrigerator. Fig. 2 is a perspective view of the frame, and Fig. 3 a sectional view.

This invention relates to certain novel improvements in water-coolers and refrigerators, which will be fully understood from the following description, when taken in connection with the annexed drawings.

In the drawings, A is a refrigerator, the outer walls and cover of which are formed in the customary manner and of the usual proportions. Centrally within this refrigerator I provide a rectangular frame, B, preferably formed of metal. The outer edges of this frame have an upturned flange, C, and at each corner a downward-projecting lug having an opening therein, as shown at D. Centrally within one of the shorter sides, preferably, I provide a lug, E, having a screw-threaded opening, within which is placed a tubular piece, F, extending downward. Within this tubular piece, near the bottom, I provide a lateral threaded opening, G, to receive the inner threaded end of a cock, H, the said cock H extending through a suitable opening in the side of the refrigerator, and provided on the outer side with a flange, I, fitting against the outer side of the refrigerator, and secured thereto by means of suitable screws or pins, J. The outer part of the cock may be of any suitable construction. Within the flange of the frame B, I provide a rectangular box or cooler, K, fitting snugly therein. This box is designed to extend from the frame B upwardly to the edge of the refrigerator, and may be formed of metal, preferably. In the bottom, near one end, a tube, L, is fitted, extending downwardly. The lower part of the periphery is cone-shaped, and designed to fit within the vertical conical opening at the upper end of the tube F. This tube L is also provided upwardly with a conical opening, N. Within this conical opening N, I provide a conical plug, O, having at its upper side a wire, P, to facilitate its removal. The lower side of this plug is prolonged and somewhat pointed, to facilitate its insertion within the opening.

As will be noticed, the cooler K and the conical tube L, secured therein, may be detached from the frame B and tube F. When it is desired for cooling or refrigerating purposes, the ice is cleaned and placed, with a sufficient amount of water, within the cooler K. The plug O being removed, the cock H is in communication with the cooler K, and the water therein may be drawn off for drinking purposes. In this manner the ice within the cooler is used both for cooling the water and the refrigerator. When it is desired to remove the cooler for cleansing or other purposes, the plug O is placed within the conical opening N, thus shutting off communication between the cooler and the cock. The cooler, with its accompanying tube L and plug O, may then be moved bodily from the refrigerator without disturbing the position of the tube F within the metallic frame or the cock H. After the refrigerator is cleaned the cooler may be replaced within the frame, so that the conical tube L again fits within the tube F, and the plug O being removed, communication is effected between the cooler and the cock H. In combining the cooler and refrigerator in this manner greater economy in ice is effected.

What I claim is—

1. The combination, with a refrigerator-chest, of a rectangular frame secured within this chest and constructed with inclined flanges, an internal support, a lug having a coupling secured to it provided with a tapered bore and a stop-cock, and a removable cooler mounted on said frame, and having a tapered outlet-tube fitting into said coupling and provided with a conical plug, all as described.

2. The combination, with the chest A, of a stationary frame provided with an outlet-cock, and a cooler within the said frame provided with a tapered outlet-tube and a valve, substantially as described.

In testimony that I claim the foregoing I have hereunto set my hand, this 7th day of May, 1884, in the presence of witnesses.

JAMES W. BARNUM.

Witnesses:

ANDREW HERO, Jr.,

A. J. FERRAN.