W. H. HILL.

REFRIGERATOR.

APPLICATION FILED JUNE 28, 1909.

979,950. Patented Dec. 27, 1910.

Fig. 2

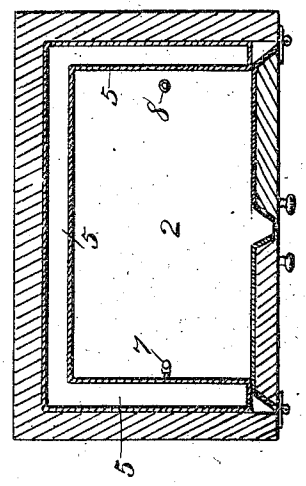
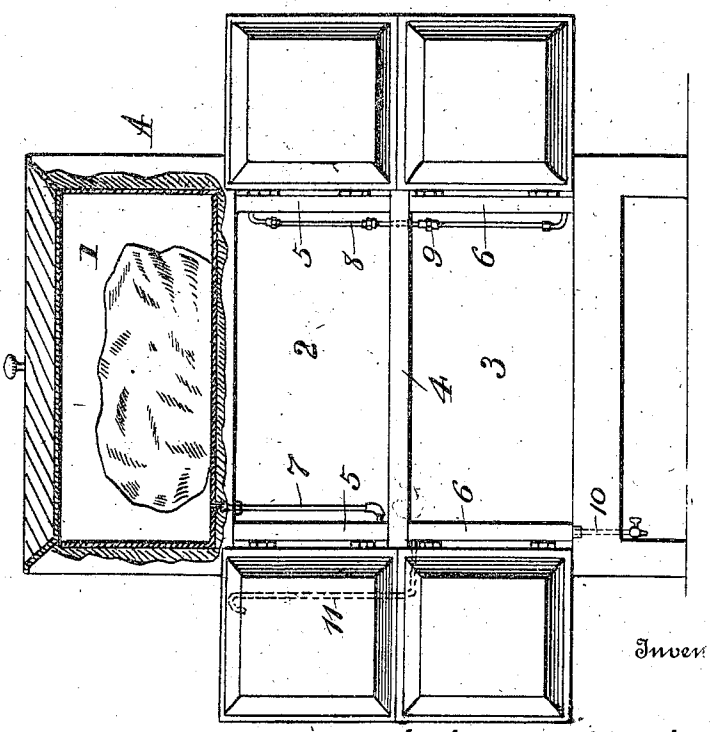


Fig. 1.



Witnesses

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UNITED STATES PATENT OFFICE.

WILLIAM H. HILL, OF OWENSBORO, KENTUCKY, ASSIGNOR OF ONE-HALF TO ABRAHAM HIRSCH, OF OWENSBORO, KENTUCKY.

REFRIGERATOR.

979,950. Specification of Letters Patent. Patented Dec. 27, 1910.

Application filed June 28, 1909. Serial No. 504,920.

To all whom it may concern:

Be it known that I, WILLIAM H. HILL, a citizen of the United States, residing at Owensboro, in the county of Daviess and State of Kentucky, have invented certain new and useful Improvements in Refrigerators, of which the following is a specification.

My invention relates to an improvement in refrigerators, and the object is to provide means whereby the water from the melting ice will pass in the chambers around the walls of the refrigerator for cooling the interior of the refrigerator and thereby obtain a greater cooling surface than can be obtained from the ice which is held in a receptacle above the provision chambers.

The invention consists of certain novel features of construction and combinations of parts which will be hereinafter fully described and pointed out in the claim.

In the accompanying drawings—Figure 1 is a view in side elevation showing the doors of the provision chambers open; Fig. 2 shows a horizontal section through the upper cooling chamber.

A, represents the refrigerator constructed of any suitable material, and 1 is the ice chamber. Below the ice chamber there is an upper and lower cooling chamber 2 and 3. These chambers are divided by a partition 4. A water chamber or receptacle 5 extends around the three walls of the upper chamber 2, and similar chambers or receptacles 6 extend around the three walls of a lower cold air chamber 3. A drain pipe 7 leads from the bottom of the ice chamber to the base of the water receptacle 5, permitting the drain or drip water from the ice to enter the water receptacle at the bottom. A pipe 8 is connected to the water receptacle 5 and the top thereof extends down through the partition 4, and is connected to the water receptacle 6 at the bottom thereof for conducting the water from the chamber or water receptacle 5 as it fills, thereby filling the receptacle 6 in the chamber 3. The pipe 8 is made in two sections preferably and connected together by a union 9 to permit of the parts being removed. The drain pipe 10 is connected to the bottom of the water receptacle 6 so that the water can be removed therefrom. An overflow pipe 11 is connected to the top of the water tank 6 and extends out through the body of the refrigerator upwardly and on a level with the top of the water chamber 5 so that when the receptacle 6 becomes filled the water will continue to rise in pipe 11 until it reaches the outlet in pipe 11. The water entering tank 5 will be colder than the water in tank 6. Warm water is less dense or lighter than cold water, so that by placing the outlet of each receptacle at the top, the warm water from each receptacle will overflow. The water receptacles 5 and 6 can be removed by disconnecting the pipes so that the tanks as well as the refrigerator can be thoroughly cleaned.

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

In a refrigerator, the combination with a body having a partition running horizontally thereof dividing it into upper and lower chambers, an ice-chamber having a solid bottom located above said chambers, removable U-shaped water receptacles in each of the chambers and extending around the walls thereof, a pipe connected to the ice-chamber, said pipe extending downward and connected to the lower part of the water receptacle in the upper chamber for conducting the water from the ice chamber to the upper receptacle, a pipe connected to the water receptacle in the upper chamber at the top thereof, said pipe extending downward and connected to the water receptacle in the lower chamber at the bottom thereof, and a pipe connected at the top of the low water receptacle for carrying off surplus water.

In testimony whereof I affix my signature, in the presence of two witnesses.

WILLIAM H. HILL.

Witnesses:
THE. F. WATKINS,
J. D. RUSSELL.