

J. R. REYNOLDS.

REFRIGERATOR.

No. 188,948.

Patented March 27, 1877.

Fig. 1.

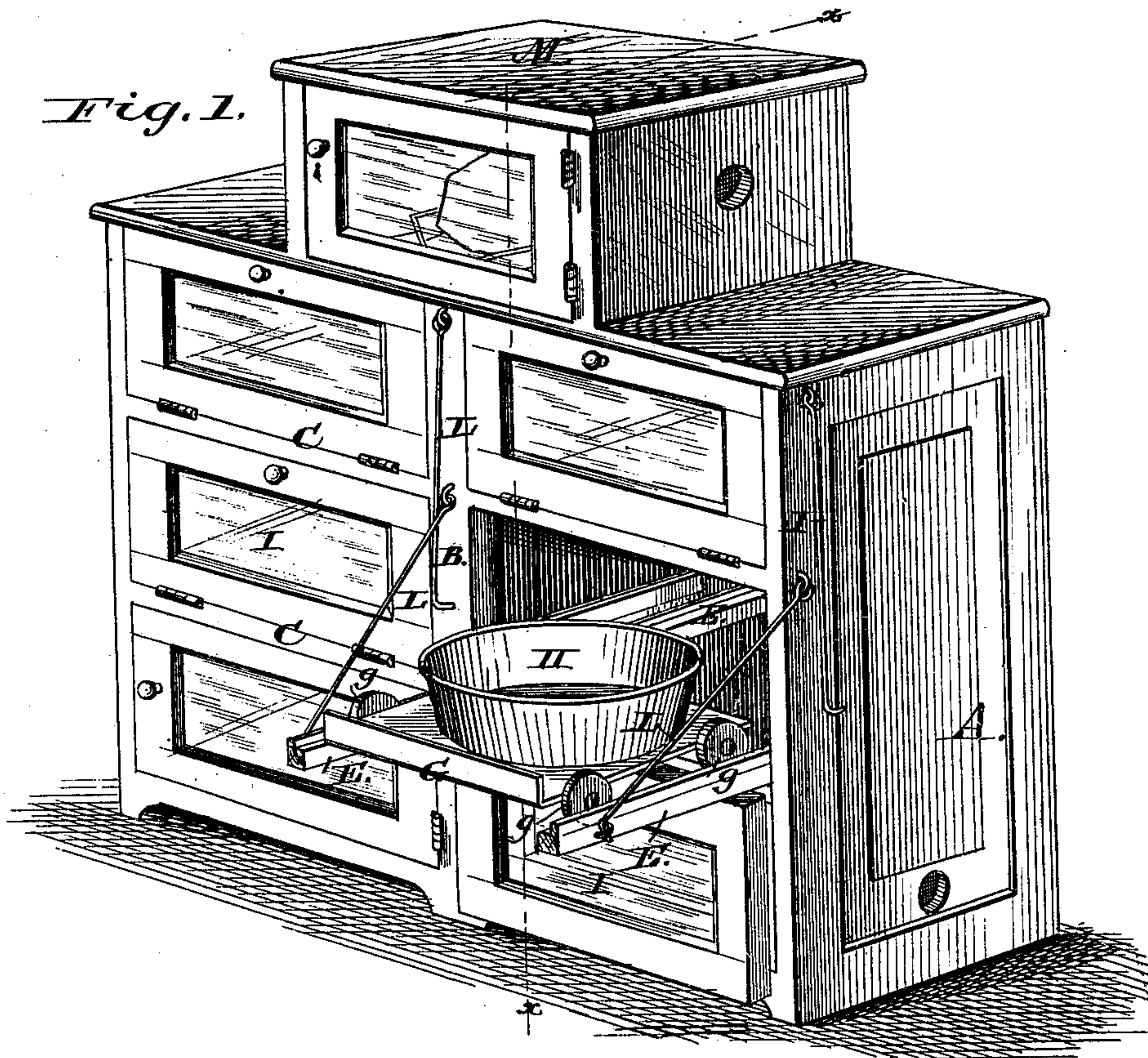
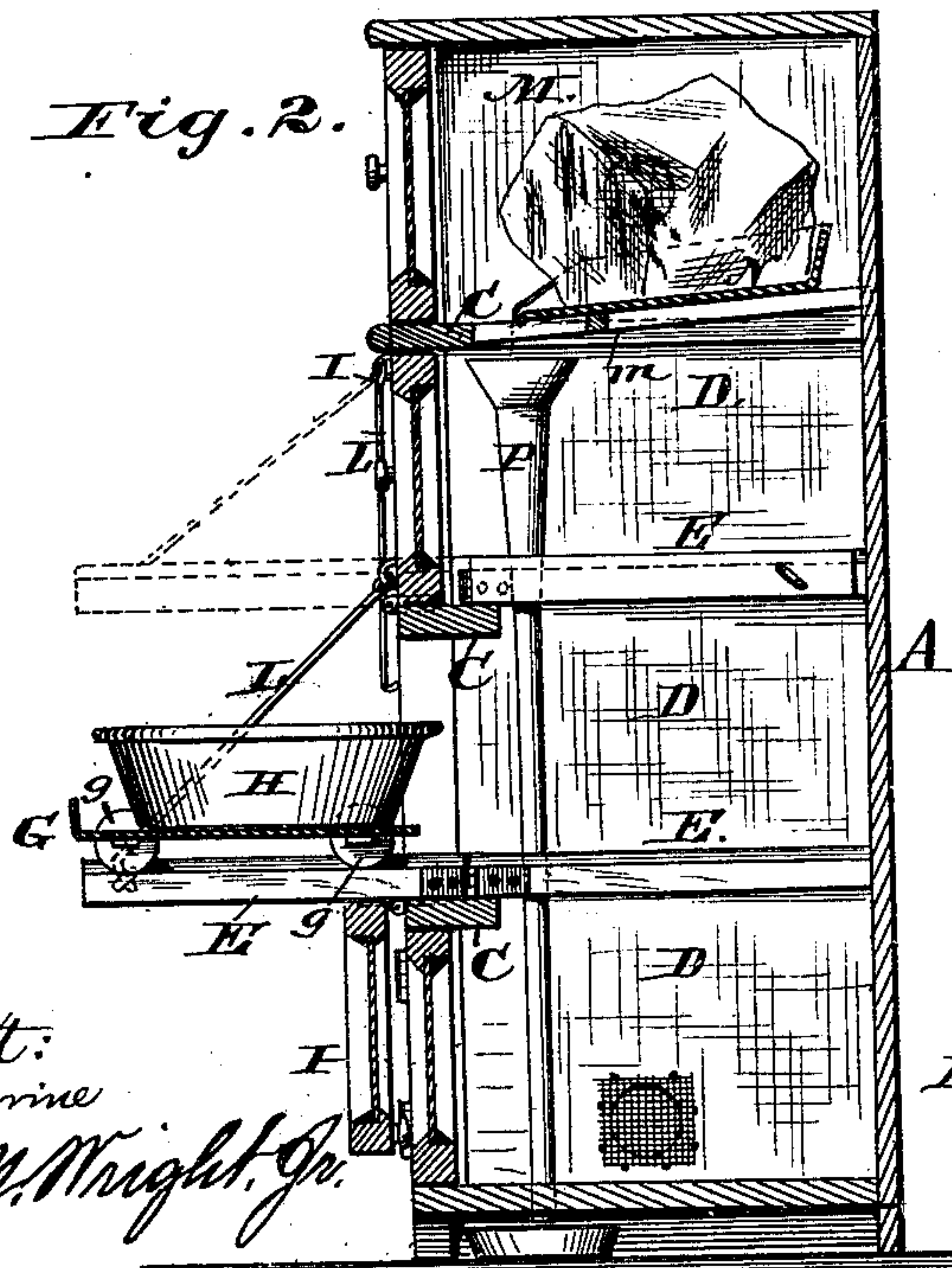


Fig. 2.



Attest:  
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# UNITED STATES PATENT OFFICE.

JOHN R. REYNOLDS, OF ESSEX, VERMONT.

## IMPROVEMENT IN REFRIGERATORS.

Specification forming part of Letters Patent No. 188,918, dated March 27, 1877; application filed January 9, 1877.

*To all whom it may concern:*

Be it known that I, JOHN R. REYNOLDS, of Essex, in the county of Chittenden and State of Vermont, have invented certain new and useful Improvements in Refrigerators, of which the following is a specification:

This invention relates to an improved cupboard or chest for storing perishable articles, but it is specially designed for storing milk, its object being to provide for conveniently maintaining the interior of the same at the proper temperature to insure thorough ventilation and to provide an efficient means of inserting and removing the pans and inspecting the contents of the same, as more fully hereinafter described.

The improvements will be fully hereinafter described, and a preliminary explanation of the construction and operation of the devices is therefore deemed unnecessary.

In the drawing, Figure 1 is a perspective, and Fig. 2 a sectional, view of my apparatus.

In the drawing, the letter A represents a cupboard or chest, which may be constructed of wood or other suitable material, of rectangular form, and divided vertically at the front by means of an upright bar, B, having an opening on each side of the front of the casing. The letters C C represent a series of horizontal dividing-bars located at the front of the casing or cupboard, which, with the vertical bar B, serve to divide the said casing into a series of parallel divisions, D, for the reception of the pans in which the milk or other articles are contained. At each side of said divisions are arranged ways or tracks E, which are each formed in two sections or parts, one being permanently attached to the interior of the casing or cupboard, and the other hinged to the outer end of the permanent portion, in such manner that said hinged portions may be folded into the divisions or extended outwardly in front of the same, as occasion may require, in order to allow the movable truck (to be hereinafter described) and the pan which it supports to be run to the front of the cupboard, or inclined in its proper division, and the door closed after such insertion, as will be more fully hereinafter set forth. The letter G represents a series of trucks, one for each division of the cupboard, which are provided with

wheels *g* at each side adapted to travel upon the tracks in each division of the cupboard, so as to be conveniently inserted in and withdrawn from said compartments. Each of said trucks is provided with a rectangular pan, H, adapted to fit and rest upon the top thereof, for containing the milk or other article to be stored in the cupboard or casing. The letter I represents a series of hinged doors, one for each division, which are preferably constructed with glass panels, in order to allow the interior of the cupboard to be inspected. Such of said doors as serve to cover those divisions provided with the ways or tracks for the reception of the movable trucks are hinged at the bottom front edges of the divisions, in order to fall out of the way and allow the folding ends of said tracks to be extended outwardly. The lower divisions, which are not provided with tracks or ways, and which are intended for the reception of heating devices for elevating the temperature in cold weather or for the reception of jars for the storage of cream, butter, or other perishable articles, when such heating devices are not required, are provided with doors hinged to the central dividing-bar at the front of the apparatus, as shown. The hinged tracks are each provided with links L, secured to the outside of the casing, for holding them in position when opened. The letter M represents a cooling-chest, located at the top of the main chest or cupboard, midway between the vertical divisions of the same, and communicating therewith by means of an open bottom. Said chamber is provided with cross-bars *m* at the bottom for the purpose of supporting the ice-pan N, which is contracted at its front end, which terminates in a spout directly over a funnel-mouthed pipe, P, leading downwardly into the body of the main casing or cupboard, and communicating with a suitable cold-water receptacle for the collection of water for drinking or other purposes, or it may be extended outside, in order to carry off the waste water. The said cooling-chamber is provided with ventilating-apertures at convenient points, and the main chamber or cupboard with similar ventilating-apertures S below, to provide for a thorough circulation of air through the apparatus.

The operation of the improved cupboard will



be readily understood from the foregoing description. The ice is placed in the pan in the upper cooling-chamber, and, by reason of the greater density of the air as it becomes cool, it will fall toward the bottom of the cupboard and thoroughly traverse the same. By means of the folding extensible tracks it will be evident that the trucks containing the pans may be removed to the front of the apparatus and supported in place for removal, inspection, or filling, or can be moved back into the cupboard and the doors conveniently closed after they are secured in place. By means of the trucks and independent pans it will be evident that the pans can be much more conveniently handled and inserted and removed from the apparatus than where the wheels are directly attached to the pans.

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

A refrigerator having a series of storage-compartments located below and in open communication with a central ice-chamber, each of said compartments being provided with a hinged or folding track, whereon the wheeled truck rides and is withdrawn, the several tracks in their extended position being supported by suitable hook-braces, substantially as herein shown and described.

In testimony that I claim the foregoing I have hereunto set my hand in the presence of the subscribing witnesses.

JOHN R. REYNOLDS.

Witnesses:

ANNIE E. MILES,  
E. O. HOWLAND.