

G. B. ROHRER.
Refrigerators for Preserving Butter, &c.
 No. 135,159. Patented Jan. 21, 1873.

Fig. 1.

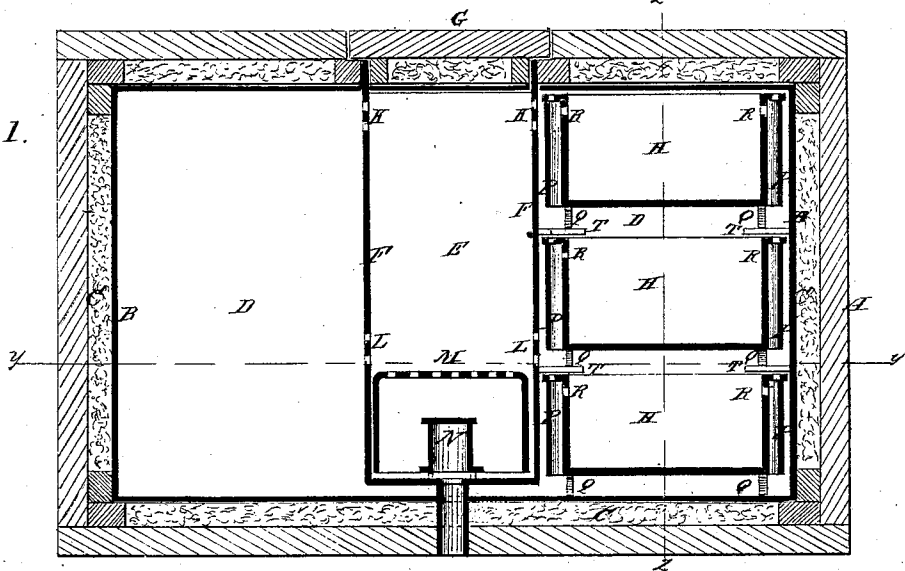


Fig. 2.

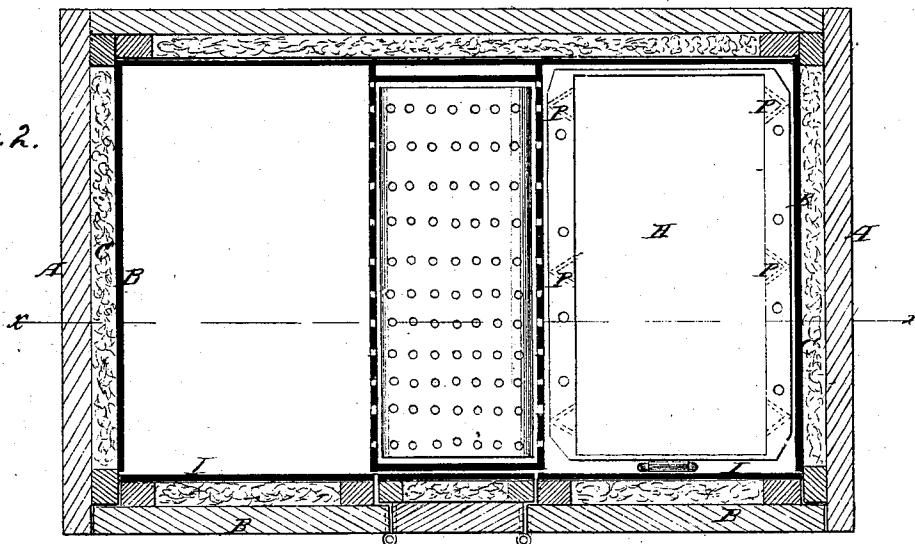
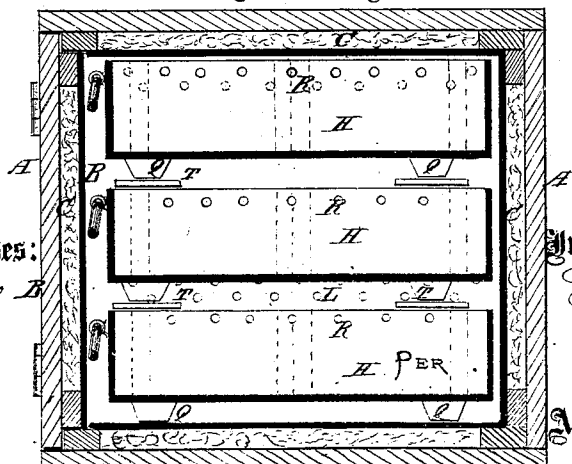


Fig. 3.



Witnesses:

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GEORGE B. ROHRER, OF OXFORD, OHIO.

IMPROVEMENT IN REFRIGERATORS FOR PRESERVING BUTTER, &c.

Specification forming part of Letters Patent No. 135,159, dated January 21, 1873.

To all whom it may concern:

Be it known that I, GEORGE BENEDICT ROHRER, of Oxford, in the county of Butler and State of Ohio, have invented a new and Improved Butter-Refrigerator, of which the following is a specification:

My invention consists of a refrigerator of double walls, with a space between packed with wool for the non-conducting substance, the interior being in three compartments, the middle one, which is to contain the ice, being narrow, with an opening on the top to admit the ice, the others being wider, with doors opening into one end from the top to the bottom, and containing galvanized iron, tin, or zinc pans, one upon another, with spaces between; also with spaces between them and the side walls for the circulation of air, the said pans having flanges to fit snugly within the walls of the compartments to prevent them from sliding or moving about, the flanges and the walls of the ice-compartment being perforated to facilitate the circulation, and the sides and bottoms of the pans being provided with triangular strengthening-ribs, which also serve to keep the pans separate from each other and from the walls of the compartment, the said refrigerator being particularly designed for shipping and marketing butter.

Figure 1 is a longitudinal sectional elevation of my improved refrigerator taken on line *xx* of Fig. 2. Fig. 2 is a horizontal section taken on the line *yy* of Fig. 1. and Fig. 3 is a transverse sectional elevation taken on the line *zz* of Fig. 1.

A is a rectangular case of wood of any approved size, and B is a zinc case inclosed within it, with a space between the walls of each about an inch wide, more or less, which I propose to pack with wool C, which, besides being lighter than other non-conducting substances, and therefore better adapted for a shipping-refrigerator, is also a better non-conducting material than any heretofore used. The case B is divided into three compartments, D, D, and E, by the partitions F. E

is the ice-chamber, with an opening G at the top. D are the chambers for receiving the butter-pans H; they are provided with openings I at one end. The partitions have perforations K near the top and L near the bottom, for the cold air to flow into the pan-chambers through L, and the warm air to flow back into the ice-chambers through K, by which a circulation is maintained. M is an elevated perforated bottom in the ice-chamber, to support the ice above the water, which escapes through the trap N. The pans H are made of galvanized iron, tin, or zinc, a little smaller in length and width than the chambers D; they have flanges O projecting to the walls to keep them from sliding about; they also have triangular strengthening-ribs P on the sides, and on the bottom if preferred; or legs Q may be used on the bottom instead.

Three or more pans will be placed in a chamber, D, one above another, shallow pans being preferred. To divide the butter in small packages, in which it is preserved better than in large ones, the pans will not be filled quite full, and they have a series of ventilating-holes, R, in the sides, a little below the top, for the cold air to enter, while the warm air escapes over the top. The pans may rest one upon another.

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

1. The uncovered butter-chambers D D having perforations R, combined with an intermediate ice-chamber, E, having perforations K L, as described, for the purpose of producing a circulation of air.

2. The butter-pans H having the ribs P Q to cause a space between the pans and partitions, and to prevent any mobility thereof, as set forth.

GEORGE BENEDICT ROHRER.

Witnesses:

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