

E. S. ROOT.
Refrigerators.

No. 145,127.

Patented Dec. 2, 1873.

Fig. 1.

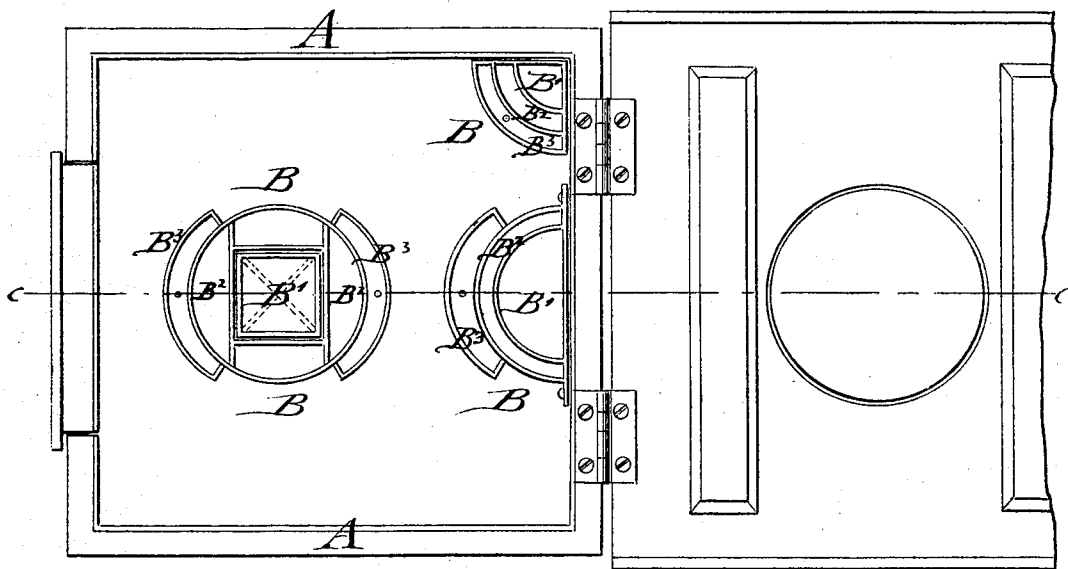


Fig. 2.

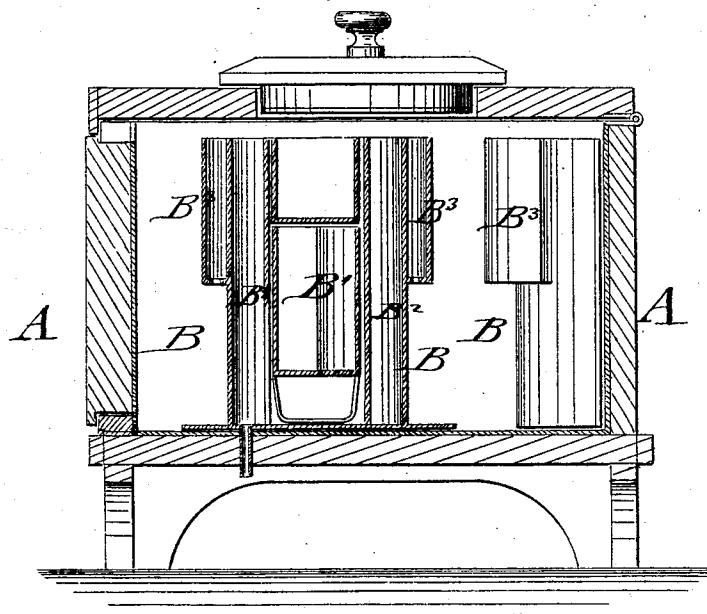
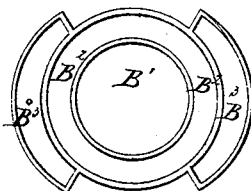


Fig. 3.

WITNESSES:

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Chilquist



INVENTOR:

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UNITED STATES PATENT OFFICE.

ERASTUS S. ROOT, OF PROVIDENCE, RHODE ISLAND.

IMPROVEMENT IN REFRIGERATORS.

Specification forming part of Letters Patent No. **145,127**, dated December 2, 1873; application filed October 18, 1873.

To all whom it may concern:

Be it known that I, ERASTUS S. ROOT, of Providence, in the county of Providence and State of Rhode Island, have invented a new and Improved Refrigerator, of which the following is a specification:

In the accompanying drawing, Figure 1 represents a plan view of my improved refrigerator, with cover thrown open to show interior arrangement; Fig. 2, a vertical central section of the same on the line *c c*, Fig. 1; and Fig. 3, a detail top view of the interior cooler, arranged for an ice-cream freezer.

Similar letters of reference indicate corresponding parts.

The object of my invention is to furnish for family and other use a simple, cheap, and economical refrigerator, which may be arranged with shelves and suitable doors for different purposes, establishing a low and even temperature with a very small consumption of ice.

The invention is an improvement in the class of domestic refrigerators in which the food chambers or receptacles are arranged around a central ice or cooling chamber, as described in the patent of J. L. Tripler, June 24, 1873.

The improvement consists in the construction of the cooler, to be placed within the ordinary rectangular tin-lined box, with food and freezing chamber, arranged as hereinafter described.

In the drawing, A represents the outer box of the refrigerator, lined with tin at the inside, or constructed in any other manner so as to form an efficient non-conductor of heat. The cooler B is placed inside of box A, suitably attached to the bottom or sides of the same, and constructed either of round or semi-circular, quadrantal, or other shape, according

as it is desired to arrange the same in the center, at the side, or corner of box A. Cooler B has a central space or receptacle, B¹, which is provided with shelves for meats, &c., or otherwise adapted to its purpose. The central space B¹ is surrounded by a concentric chamber, B², which is filled with small lumps of ice, the melted water being drawn off through a perforation at the bottom to the outside of box A. Chamber B² is partly surrounded at its upper half by the segmental concentric chambers B³, Fig. 1, which are also filled with lumps of ice, and connected suitably with the bottom of box A for drawing off the water. The inner chamber B² serves mainly to keep the central space B¹ cool, besides cooling with its lower surface the outer box, while the upper segmental chambers B³ are more especially designed to keep box A at the required temperature. Cooler B is made of tin or other suitable material, and may be provided with doors opening to the outside, when arranged at the sides or corners of the refrigerator, so that its central space may be directly accessible from the outside of the box. If placed in the center, its central part is made accessible through a door of the top part or cover of the refrigerator.

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

The improvement in refrigerators herein described, consisting of the metal cooler B, having the central food-chamber B¹, the surrounding ice-chambers B², and the short supplemental ice-chambers B³, all constructed and arranged as set forth.

ERASTUS S. ROOT.

Witnesses:

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