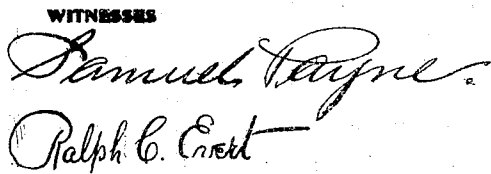


A. A. QUINN.
REFRIGERATOR.
APPLICATION FILED MAY 10, 1912.

2 SHEETS--SHEET 1.



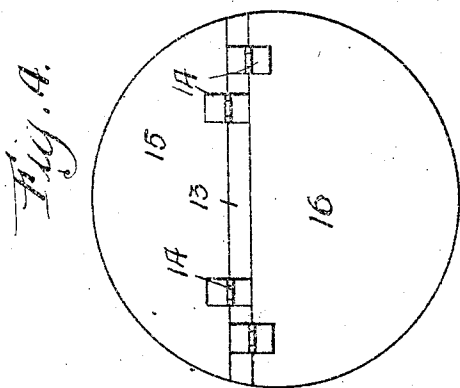
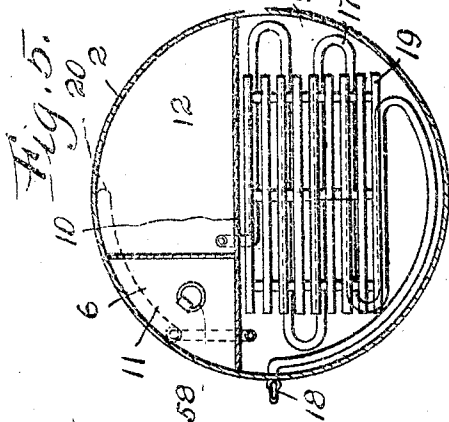
INVENTOR

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APPLICATION FILED MAY 10, 1912.

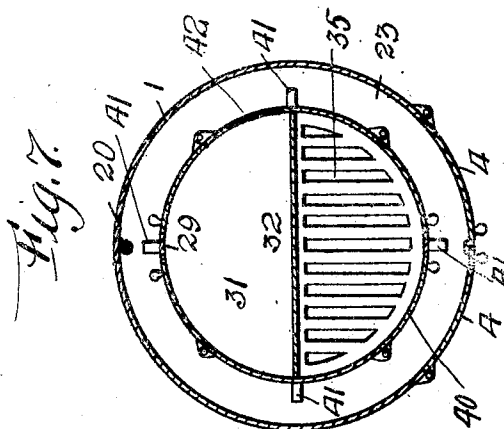
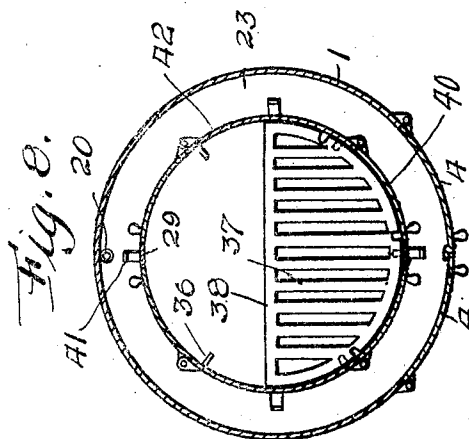
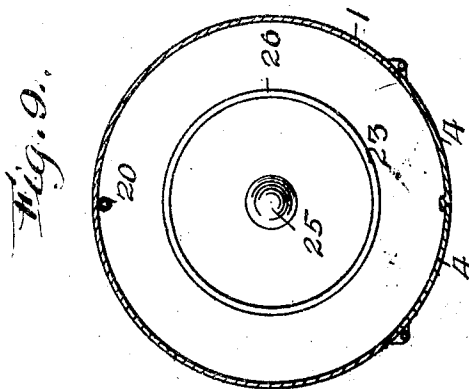
2 SHEETS--SHEET 2.

Fig. 6. A cross-sectional view of a circular device, likely a watch movement, showing internal components and numbered parts (20, 57, 1, A2, 56, 50, 52, 46, 47, 51, 54, 5, 9, 46, 55, 53, 3).



WITNESSES

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UNITED STATES PATENT OFFICE.

AMBROSE A. QUINN, OF PITTSBURGH, PENNSYLVANIA.

REFRIGERATOR.

1,101,880.

Specification of Letters Patent.

Patented June 30, 1914.

Application filed May 10, 1912. Serial No. 696,389.

To all whom it may concern:

Be it known that I, AMBROSE A. QUINN, a citizen of the United States of America, residing at Pittsburgh, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in Refrigerators, of which the following is a specification, reference being had therein to the accompanying drawing.

This invention relates to refrigerators, and the primary object of my invention is to provide a refrigerator with rotary compartments that are provided with shelves and racks for supporting various articles within the refrigerator.

A further object of this invention is to provide a refrigerator with a rotary carrier that permits of meats, vegetables and other articles being easily obtained from the refrigerator.

A still further object of this invention is to provide a rotary refrigerator that can be advantageously used by restaurants and as a household article for compactly holding a large quantity of articles.

With the above and other objects in view, the invention resides in a novel construction, combination and arrangement of parts to be hereinafter specifically described and then claimed.

Reference will now be had to the drawings, wherein like numerals denote corresponding parts throughout the several views, in which:—

Figure 1 is a front elevation of the refrigerator. Fig. 2 is a vertical transverse sectional view of the same. Fig. 3 is a vertical cross sectional view of the refrigerator. Fig. 4 is a plan of the same. Fig. 5 is a horizontal sectional view taken on the line V—V of Fig. 3. Fig. 6 is a similar view taken on the line VI—VI of Fig. 2. Fig. 7 is a similar view taken on the line VII—VII of Fig. 2. Fig. 8 is a similar view taken on the line VIII—VIII of Fig. 3, and Fig. 9 is a similar view taken on the line IX—IX of Fig. 3.

A refrigerator in accordance with this invention comprises a shell preferably cylindrical, and made in two sections, a base section 1 and a top section 2. The base section 1 is provided with door-ways that are normally closed by doors 3, 4 and 5, said doors being hinged to the shell whereby they can be easily opened and closed. The top section 2 has a horizontal bottom-plate that is

provided with depending flanges 7 riveted or otherwise connected to the top section 2, as at 8. The flanges 7 extend below the lower end of the section 2 and fit into the upper end of the base section 1. The said bottom plate is offset, so that a portion thereof designated as 6 lies in a plane parallel with, but above the remainder of the plate, such remainder being designated as 9. Formed integral with the bottom plate 6 at a point where the latter is offset is a vertical partition 10 that divides the top section into two compartments 11 and 12, the former being of a less size than the latter. The compartment 11 is adapted to hold water and the compartment 12 accommodates a refrigeratory agent, as ice. The upper edge of the partition 10 carries a longitudinal bar 13 and hinged to said bar, as at 14 are lids 15 and 16 closing the compartments 11 and 12 respectively.

The portion 9 of the bottom plate, within the compartment 12 supports a pipe 17 one end of which extends through the portion 6 of the bottom plate in the compartment 11 and is in communication with said compartment, whereby water can flow from said compartment into the pipe 17. The opposite end of the pipe 17 extends through the wall of the top section 2 and is provided with a faucet or spigot 18. The pipe 17 is doubled back and forth to provide a series of turns all lying in the same plane, as best seen in Fig. 5. Arranged upon the pipe 17 is a slatted support 19 for ice or the refrigeratory agent. The portion 9 of the bottom plate has a drain pipe 20 that extends to the bottom of the refrigerator whereby waste water within the compartment 12 will be conducted to a drip-pan 21, slidably mounted in guides 22, carried by a bottom plate 23 arranged in the base section 1 and removed from the lower edges of said base section, as best shown in Fig. 2. Easy access is had to the drip-pan 21 by opening the door 5, and said drip-pan has a handle 24 whereby it can be easily removed from the base section 1 of the refrigerator.

The top of the bottom plate 23 is fitted with a central conical shaped bearing 25 and with a circular rail 26 that surrounds the bearing 25. Movable upon the rail 26 are a plurality of grooved rollers 27 carried by the bottom plate 28 of a rotary container 29. The bottom plate of said container has a depending socket member 30 to receive the up-

per end of the central bearing 25. The container 29 is circular and of a less diameter than the shell of the refrigerator. The container has a horizontal partition 31 and a vertical partition 32, said partition dividing the container into compartments 33 and 34. The partition 31 within the compartment 34 is slotted as at 35 to provide slats whereby air can freely circulate in the lower part of the container and in the compartments of the casing. The container 29, between the bottom plate 28 thereof and the partition 31, is provided with vertical equally spaced supports 36 for shelves 37 and 38, the latter being approximately half the size in plan, of the former. Easy access is had to the compartments 33 and 34 and the space in the lower part of the housing through the medium of door-ways 39 that are normally closed by hinge doors 40. In order that the doors 40 can be opened, the container 29 is revolved whereby the doors 40 will register with the door-ways closed by the doors 4 and by opening the doors 4 the doors 40 can be easily swung to an open position. To facilitate revolving the container 29, the outer side of said container is provided with hand grips or with handles 41. The container 29 is of a less height than the base section 1 of the refrigerator and located upon the top of the container is a cylindrical casing 42 that has the top 43 thereof provided with a central bearing 44 adapted to engage in a depending socket 45, carried by the portion 9 of the bottom plate of the section 2. The casing 42 has U shaped horizontal door-ways or guides 46 in which are slidably mounted drawers 47. Each drawer has a hinged lid 48 whereby matter can be easily placed in said drawers. The door-ways 46 are diametrically opposed as best shown in Fig. 6 and are connected by a vertical web 49. This web supports a horizontal shelf 50. The arrangement of the door-ways 46 provides compartments 51 and 52, and said door-ways within the compartment 51 are provided with brackets 53 for a transverse box or rack 54 upon which any desired articles can be suspended. The top of the container 29 upon which the casing 42 rests is slotted or perforated as at 55 to insure a circulation of air throughout the container 29 and the casing 42.

Easy access is had to the compartments 51 and 52 through the medium of hinged doors 56 and these doors can be readily opened when the container is turned so as to bring either door 56 opposite door 3.

The drawers 47 are provided with faucets or spigots 57, whereby liquid, as milk can be placed in the drawers 47 in lieu of solid matter. To permit of the water compartment 11 of the top section 2 being thoroughly cleaned and flushed, the portion 6 of the bottom plate is provided with a detachable plug 58, and by removing the top section 2, the entire top section can be thoroughly cleaned.

From the foregoing it will be observed that I have devised a novel rotary refrigerator that is located in a shell that provides an air space which prevents warm air upon the exterior of the shell from affecting the temperature of the various compartments and drawers in the rotary portion of the refrigerator. The entire structure can be made of light and durable metal, enameled or otherwise finished to present a neat and attractive appearance.

While in the drawing, there is illustrated a preferred embodiment of the invention, it is to be understood that the structural elements are susceptible to such changes, as in the size, proportion and manner of assembly, without departing from the scope of the appended claim. The horizontal partition with its integral vertical extension 10 serving as a partition, and its depending bearing socket greatly facilitates the assembling of the revoluble container and other elements within the cylindrical shell and insures an easy turning of the container.

What I claim is:—

In a refrigerator, the combination with a cylindrical shell, of a horizontally-disposed fixed partition within the shell near the upper end thereof having an integral vertical extension serving as a partition, and a bearing socket depending centrally from said horizontal partition, a bottom provided with a central upwardly-projecting conical stud, a circular rail on said bottom surrounding said stud, a revoluble container, a casing therein provided at its top with a central conical stud fitting said depending bearing, and grooved rollers supported below the bottom of the container, said conical studs being vertically aligned to support and sustain the weight of the container in its pivotal movement.

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

AMBROSE A. QUINN.

Witnesses:

MAX H. SROLOVITZ,

K. H. BUTLER.