

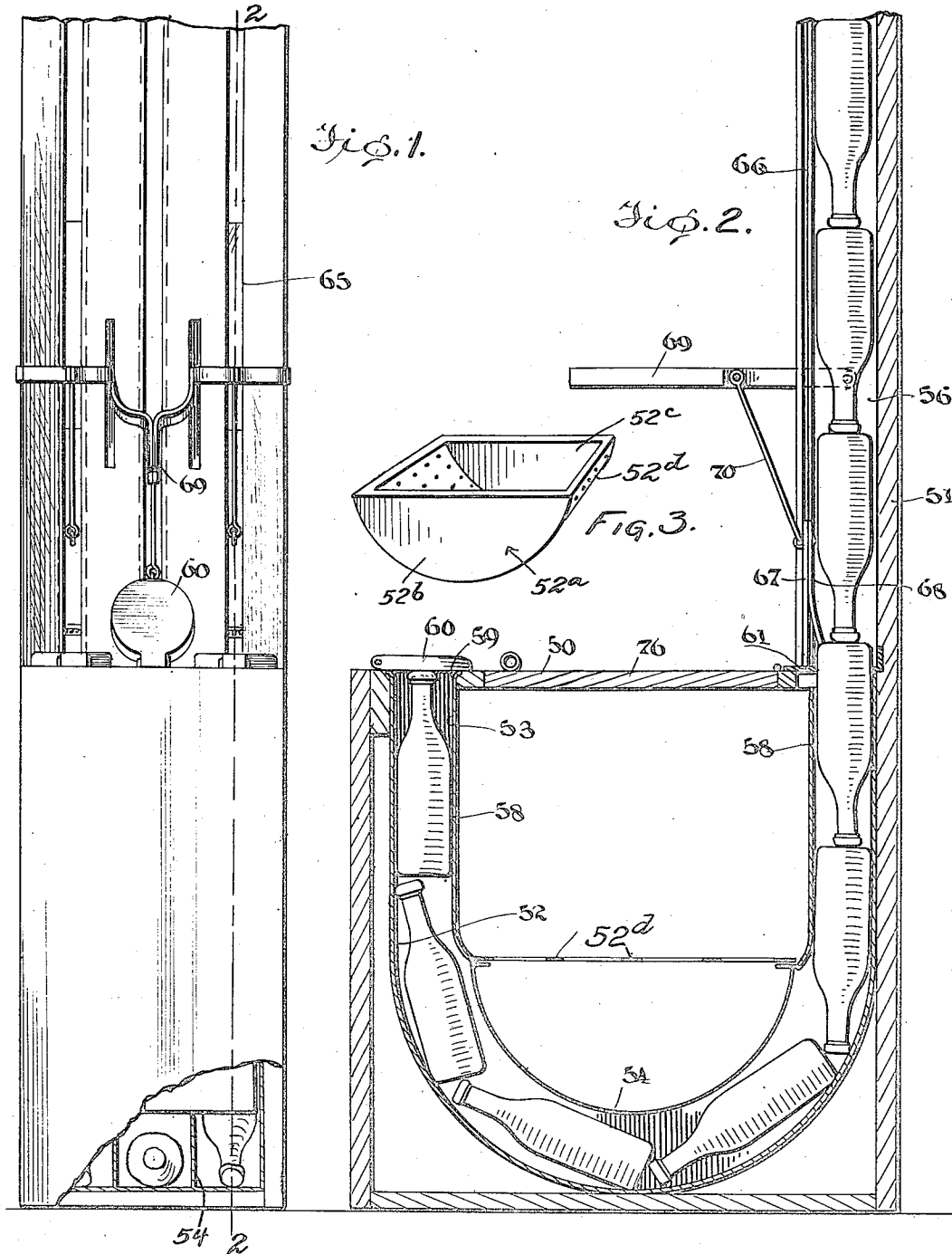
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J. H. McKIM

REFRIGERATOR

Filed Aug. 9, 1922



WITNESSES

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UNITED STATES PATENT OFFICE.

JAMES HARVEY McKIM, OF MOBILE, ALABAMA.

REFRIGERATOR.

Application filed August 9, 1922. Serial No. 580,782.

To all whom it may concern:

Be it known that I, JAMES HARVEY McKIM, a citizen of the United States, and a resident of Mobile, in the county of Mobile and State of Alabama, have invented certain new and useful Improvements in Refrigerators, of which the following is a specification.

This invention relates to a dispensing refrigerator for bottled beverages or liquid, and has for its object to provide a device of this character which is so highly organized and which is of such simple and durable construction as to present a compact and ornamental appearance and yet at the same time contain and cool a relatively large number of bottles which may be conveniently dispensed from the refrigerator.

Another object is to provide a dispensing refrigerator of this character wherein the bottles are exposed to the full effect of the cooling medium and yet at the same time protected against breakage or injury as well during the time they are stored within the refrigerator as when they are delivered therefrom.

Other objects and advantages of the invention reside in certain novel features of the construction, combination and arrangement of parts which will be hereinafter more fully described and particularly pointed out in the appended claims, reference being had to the accompanying drawings forming part of this specification, and in which:

Figure 1 is a fragmentary view in front elevation, showing one form of the invention; and

Figure 2 is a sectional view on line 2—2 of Figure 1.

Figure 3 is a detail perspective view of the receptacle for the crushed ice.

As shown in the drawings there is provided a storage cabinet 50 and a display cabinet 51 and within the storage cabinet an ice container 52 of galvanized iron or other suitable metal is provided. A receptacle 52^a is provided in the container 52 and is adapted to contain crushed ice. Preferably this receptacle 52^a includes imperforate side plates 52^b and a curved perforated plate 52^c which constitutes the bottom as well as the end walls of the receptacle. If it is desired to use block ice in addition to crushed ice a number of transverse strips 52^d may be

provided above the receptacle 52^a so as to support the block of ice in the container 52 above the receptacle for the crushed ice. Obviously these strips may be omitted, and preferably they are omitted when it is desired to use only crushed ice. It is proposed to arrange the bottles vertically that is with the top of one bottle engaging the bottom of the adjacent bottle and for this purpose a plurality of bottle racks, designated at 53 are provided, being defined in the storage cabinet by the container 52 and spaced parallel strips 54 and in the display cabinet by the wall of the display cabinet and spaced parallel strips 56. In the storage cabinet the bottle racks also include guard flanges 58 integrally formed or suitably connected with the portions of the strips 54 which constitute the vertical legs of the bottle rack. One end of the vertical legs of the bottle rack terminates in the delivery end 59 normally closed by a swinging plate or closure 60 which however may be swung outwardly under the influence of a bottle when the same is being dispensed from the refrigerator. With this form of the invention the end of the bottle rack 53 opposite the delivery opening 59 is provided with a rubber gasket 61 which engages one of the bottles to seal the bottle rack of the storage cabinet of the refrigerating compartment.

Each bottle rack is provided with its own ejecting mechanism and since this ejecting mechanism is of identical construction, a common description will serve for all. The front wall of the display cabinet 51 is provided with a slot 65 in front of each bottle rack and the walls of this slot are grooved as at 66 (see Fig. 8). A sliding plate 67 mounted in the confronting grooves of the walls of each slot carries a spring finger 68 the end of which is adapted to engage the bottom of the bottle to advance it through the rack, the spring finger being adapted to be bent back against the sliding plate during the retracting thereof. An operating yoke 69 is pivotally mounted upon the display cabinet and is connected by a link 70 to the sliding plate. It is obvious that when the yoke 69 is depressed the spring finger will engage the bottom of the bottle to advance the bottles through the rack and dispense one through the delivery opening 59 and on the other hand when the yoke 69 is raised upwardly the spring finger will travel idly

back and across the bottle until it is engaged behind the bottom thereof.

A door, designated at 76 is provided and facilitates the filling of the ice chamber.

5 While I have herein shown and described the preferred embodiment of my invention, it is to be understood that various changes in the form, proportions and minor details of construction may be resorted to without
10 departing from the principle or scope of the invention or the scope of the subjoined claims.

I claim:

15 1. In a dispensing refrigerator, a storage cabinet, a container in said storage cabinet, a bottle rack in said container, an ice receptacle arranged in said container and superposed on said bottle rack, a display rack, and means for ejecting bottles from the
20 bottle rack of the storage container and for governing the passage of the bottles into the bottle rack from the display container.

2. In a dispensing refrigerator, a storage cabinet having a U-shaped bottle rack, a display cabinet having a bottle rack communicating with the bottle rack of the storage cabinet, said storage cabinet having a delivery opening and means for moving the bottles from the rack of the display
25 cabinet into the rack of the storage cabinet and for simultaneously ejecting the bottles from the storage cabinet and including a sliding plate, said display cabinet having a slot provided with grooved walls receiving
30 said slotted plate, a spring finger mounted upon said sliding plate and engageable with

the bottle, and operating means for said sliding plate.

3. In a dispensing refrigerator, a cabinet, an imperforate metallic container arranged
40 in said cabinet strips secured to said container and defining therewith U-shaped channels constituting bottle racks, and a receptacle for crushed ice arranged in the container above the bottle racks and adjacent
45 thereto and including imperforated side plates, and a curved perforated plate associated with the side plates and constituting bottom and ends of the receptacle.

4. In a dispensing refrigerator, a cabinet, 50 an imperforate metallic container arranged in said cabinet strips secured to said container and defining therewith U-shaped channels constituting bottle racks, the vertical portions of the strips being provided
55 with guard flanges, said cabinet having a delivery opening therein communicating with one of the racks of said channel.

5. In a dispensing refrigerator, a cabinet, an imperforate metallic container arranged
60 in said cabinet, strips secured to the container and defining therewith U-shaped channels constituting bottle racks, said cabinet having a delivery opening therein communicating with one of the racks of said
65 channel, a storage cabinet having a display rack communicating with the racks of said channel, and a gasket interposed between each channel of the display rack and the communicating channel of the storage
70 cabinet.

JAMES HARVEY McKIM.