July 16, 1929. L. G. ROACH 1,721,232

BOTTLE REFRIGERATOR

Filed Sept. 27, 1928

Fig. 1.

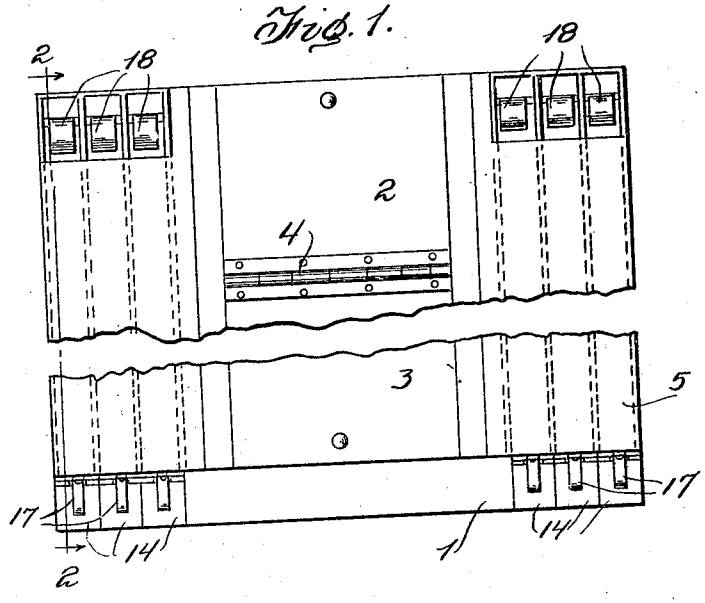


Fig. 3.

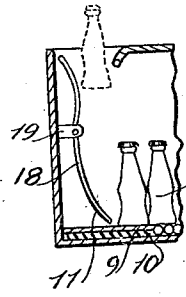


Fig. 2.

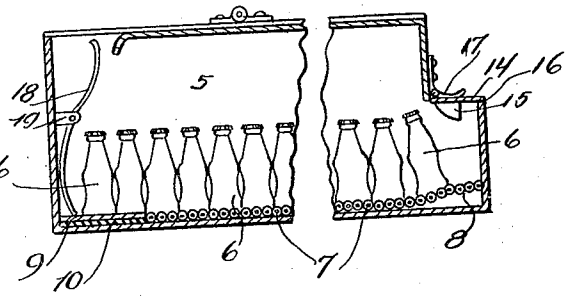


Fig. 4.

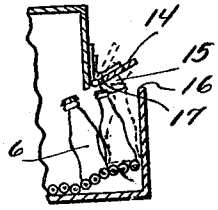
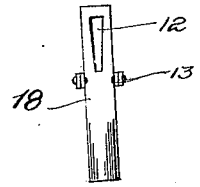


Fig. 5.



INVENTOR.
Lindsay G. Roach
BY John A. Saul.
ATTORNEYS.

Patented July 16, 1929. 1,721,232

UNITED STATES PATENT OFFICE.

LINDSAY G. ROACH, OF FREDERICKSBURG, VIRGINIA.

BOTTLE REFRIGERATOR.

Application filed September 27, 1928. Serial No. 308,779.

My invention relates to refrigerators, and more particularly to bottle refrigerators, for use in stores, homes, or other places, where it is desired to keep milk, soft drinks, or other beverages and materials cool and ready for use. It consists of a main cabinet for ice and a series of channels for the bottles or other articles, there being openings in the cabinet for inserting and withdrawing the bottles. The bottle placed in the channel is propelled forward by means of a pusher, so that the last bottle in the channel will automatically open the lid at the discharge end of the refrigerator, thus ensuring a cool bottle at all times.

The object of the invention is to so construct the same that it will be cheap, simple, durable, easily manufactured, and manipulated with little effort.

In the drawings forming a part of this specification, and in which like symbols of reference represent corresponding parts in the several views:—

Figure 1 is a plan view of my device;

Figure 2 is a vertical section, on line 2—2, Figure 1, illustrating the disposition of the bottles, pusher, etc.;

Figure 3 is a section, showing a bottle being inserted;

Figure 4 is a section showing the bottle opening the door; and,

Figure 5 is a view of the pusher, showing the slot in the same.

In the drawings the numeral 1 indicates the refrigerator; 2 and 3 the covers of the ice chamber; and 4 the double hinge of the covers for opening the same. 5 indicates the ice chamber; 6 the bottles as they appear in the channels of the device; and 7 are rollers in the channels for facilitating the passage of the bottles along the same.

8 is a ramp or elevation at the end of the bottle slide, the purpose of the same being to elevate the bottle and cause it to come in contact with a finger or trigger 15 and open the door 14 at the delivery end of the channel. 17 is a spring to normally hold the door closed to prevent escape of cold air. 9 is a brass plate at the base of the supply end to prevent wear; and 10 a rubber cushion beneath the plate to take up shock when the bottle is placed in the device.

18 indicates the bottle pusher; 11 shows the inward curve of the same to contact with the bottle; and 19 the lug in which the pusher is hinged. The upward part of the pusher is outwardly curved to facilitate reception of the bottles. The upper part of the pusher is formed with an approximately V-shaped slot, the purpose of the same being to prevent the insertion of the bottle upside down. Should the neck of the bottle be inserted first it will immediately wedge in the slot or perforation, and will have to be withdrawn before the device will operate.

The operation of the device will be apparent from the foregoing description. The bottle is placed, as shown in Fig. 3, at the supply end of the channel and passed down against the pusher, which when operated projects the bottle forward on the slide. When the bottles are moved along the slide the last one strikes the trigger and the delivery door is opened. When the bottle is withdrawn the door immediately closes. Thus the customer must always receive a cool bottle, the refrigerator will always be closed, and little attention need be given to the same.

Having now fully described my invention, what I claim as new, and desire to secure by Letters-Patent, is:—

A bottle refrigerator, provided with chambers for reception of bottles, receiving and delivery openings for said chambers, covers for said openings, and a pusher formed with an opening in its upper portion adapted to prevent the insertion of a bottle in its inverted position.

In testimony whereof I affix my signature.

LINDSAY G. ROACH.