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W. MAHONY

REFRIGERATED BOTTLE DISPLAY CABINET

Filed May 23, 1925

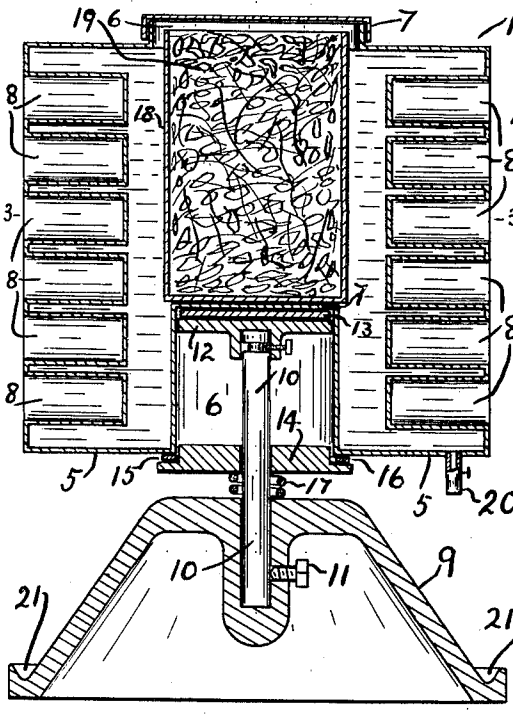


Fig. 2.

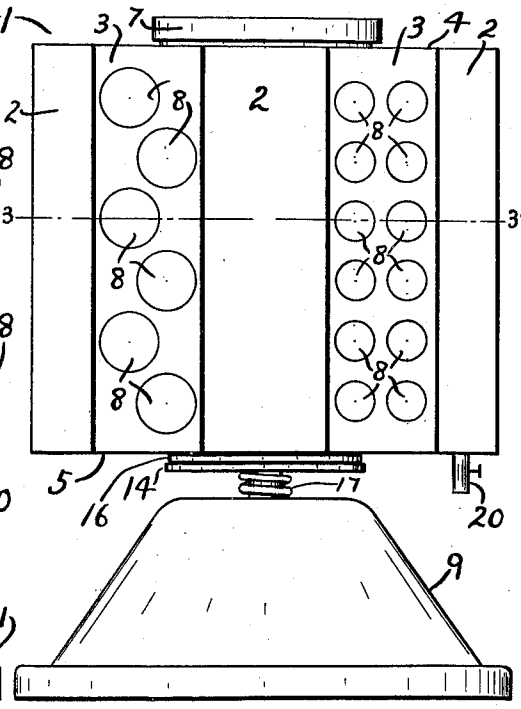


Fig. 1.

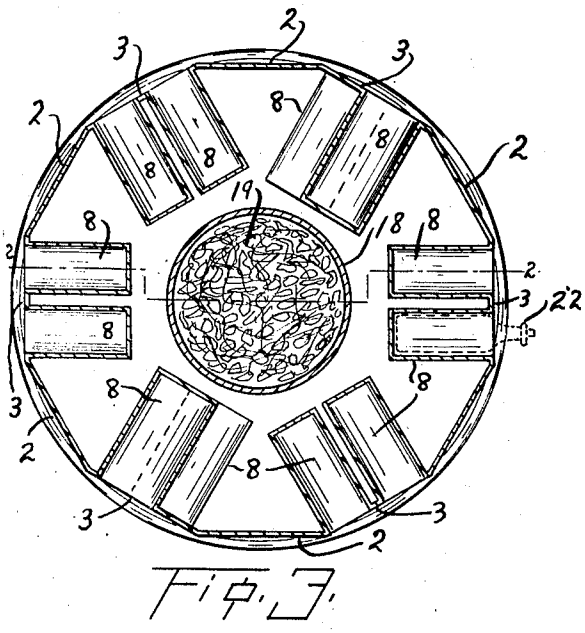


Fig. 3.

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UNITED STATES PATENT OFFICE.

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REFRIGERATED BOTTLE DISPLAY CABINET.

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To all whom it may concern:

Be it known that I, WILLIAM MAHONY, a citizen of the United States of America, and a resident of the city of Hamilton, in the county of Wentworth, Province of Ontario, Dominion of Canada, have invented certain new and useful Improvements in Refrigerated Bottle Display Cabinets, of which the following is a specification.

My invention relates to improvements in refrigerated bottle display cabinets and the object is to provide an improved apparatus of this class for use in connection with the sale of bottled beverages and the like whereby the bottles may be conveniently and attractively displayed to the public and at the same time may be kept cool; a further object is to facilitate the dispensing of the bottles; a further object is to provide such a device in which each bottle will be held in a separate compartment and while being subjected to refrigeration will not be in direct contact with the refrigerating fluid so that the bottle will not be soiled nor the label affected; a further object is to provide such a device which will be sanitary in use and which may be used to display bottles of various sizes; and a still further object is to provide such a device, portions of which may readily be used for advertising matter.

Other objects will appear in the course of the following specification.

My invention consists in the construction and arrangement of parts, all as hereinafter more particularly described and illustrated in the accompanying drawings in which:—

Fig. 1 is a side elevation of one form in which my invention may be made.

Fig. 2 is a vertical section on the staggered line 2—2 of Fig. 3.

Fig. 3 is a horizontal section on the line 3—3 of Figs. 1 and 2.

In the drawings, like characters of reference indicate corresponding parts in the various views.

In the form illustrated, my invention comprises a tank 1 which is of prismoidal shape, the side faces of which are indicated alternately by the numerals 2 and 3, the top end by the numeral 4 and the bottom end by the numeral 5.

The top end 4 is provided with a central opening 6 which is fitted with a closure cap 7.

Projecting axially upward into the tank from the bottom end 5 is a cylindrical recess 6 the upper end of which is indicated at 7 (see Fig. 2).

Projecting radially inward from the side faces 3 of the tank are cylindrical containers 8.

These containers 8 form, as will hereinafter be explained, bottle receiving cavities each of which is separate and they are spaced apart.

These cavities 8 are of various sizes in order to accommodate bottles of different dimensions as will hereinafter appear.

A base 9 is used for supporting the apparatus and projecting upwardly from this base is a spindle or post 10 which is secured within the base by a set screw 11.

Rotatably mounted on the upper end of the spindle 11 is an enlarged head or disc 12 which forms a support for the tank 1.

Interposed between the disc 12 and the inner end 7 of the recess 6 is an insulating disc 13 of wood or other suitable material.

Slidably mounted upon the spindle 10, intermediately of the length thereof, is a disc 14 formed about its periphery with a shoulder 15 and mounted upon this shoulder is a rubber gasket 16.

A spring 17 is interposed between the disc 14 and the top of the base 9 so that it urges this disc upwardly so that the gasket 16 is held against the bottom end 5 of the tank and the reduced portion of the disc extends inwardly into the recess 6.

The disc 14 thus forms a closure for the outer end of the recess 6.

A container 18 is situated within the tank and is supported upon the upper side of the inner end 7 of the recess 6.

This container is filled with chopped ice, indicated by the numeral 19.

An outlet for the tank 1 is indicated at 20.

The base 9 is formed with a peripheral groove 21 which lies vertically below the sides 2 and 3 of the tank.

A bottle held within one of the bottle receiving cavities 8 is indicated in broken lines at 22 in Fig. 3.

The construction and operation of my improved device is as follows:—

The device is intended for use in connection with the sale of bottled beverages and will be primarily used in restaurants and shops dispensing this commodity, being placed in a conspicuous position.

The tank 1 is filled with water and the container 18 is placed therein and filled with chopped ice which serves to cool the water.

The bottle receiving cavities 8 being spaced apart will permit free circulation of the water entirely therearound thus obtaining the maximum cooling effect within these cavities.

The bottles 22 are inserted into these cavities 8, the cavities being made of suitable dimensions, both as to length and diameter, to properly accommodiate the various sizes of bottles which will be handled so that the neck of the bottle will preferably project as shown in Fig. 3.

In arranging the various cavities it would of course be necessary to distribute the various sizes so that when filled with bottles the tank will be in balance.

The point of support of the tank, it will be noticed, is at the inner end of the recess 6, which will provide a more stable support than if it were directly at the bottom end.

The function of the disc 14 is merely to steady the bottom of the tank and prevent loss of refrigerating effect by preventing free circulation of air within the recess 6.

Any drops of condensation upon the sides of the tank will be caught within the groove 21.

An important feature of my invention is that the bottles, while being attractively displayed with their necks projecting are still effectively kept cool in a sanitary and clean manner since they are not wetted by the contents of the tank 1.

This is important since the labels are not in any affected or removed as is the case when the bottles are simply stood in a trough of water.

The tank 1 may be readily turned by hand so that access is conveniently had to any desired face thereof and also permitting the device being used in a limited space.

Since only each alternate face 3 is formed with the bottle receiving cavities 8, the remaining faces 2 may be readily used for any advertising display purposes.

It is to be understood that any desired form of insulating matter, such as wood, might be used as a covering to encase the tank but as this would be self evident it has not been illustrated.

From the foregoing it will be apparent that I have devised an extremely useful and efficient apparatus of the class described whereby the objects of my invention have been attained.

Various modifications may be made in my invention without departing from the spirit thereof or the scope of the claims and therefore the exact form shown is to be taken as illustrative only and not in a limiting sense and I desire that only such limitations shall be placed thereon as are imposed by the prior art or are specifically set forth in the appended claims.

What I claim as my invention is:

1. A device of the class described comprising a tank supported to rotate about a vertical axis, and formed with a plurality of separate, spaced apart, bottle holding receptacles extending thereinto from the wall thereof, said receptacles so disposed within the tank that a fluid contained within the tank will surround said receptacles.

2. A device of the class described, comprising a tank of prismoidal shape having its longitudinal axis vertical and formed with a plurality of spaced apart, bottle holding cavities extending thereinto from certain of the side faces thereof, the tank formed with a recess extending centrally and axially upward thereinto from the bottom end face thereof, a base, and a support rotatably carried by the base, the upper end of said recess supported upon said support.

3. A device of the class described comprising a tank of prismoidal shape having its longitudinal axis vertical and formed with a plurality of spaced apart bottle holding cavities extending thereinto from certain of the side faces thereof, the tank formed with a recess extending centrally and axially upward thereinto from the bottom end face thereof, a base, a support rotatably carried by the base, the upper end of said recess supported upon said support, and a removable container within the tank supported upon the upper end of said recess.

4. A device of the class described, comprising a tank of prismoidal shape having its longitudinal axis vertical and formed with a plurality of spaced apart bottle holding cavities extending thereinto from certain of the side faces thereof, the tank formed with a cylindrical recess extending centrally and axially upward thereinto from the bottom end face thereof, a base, a spindle carried by the base and extending vertically upward therefrom, an enlarged head rotatably carried at the top of said spindle and forming a support for the upper end of said recess, a disc slidably mounted upon said spindle intermediately of the length thereof said disc engaging the bottom end of the tank, and a coil spring surrounding said spindle below said disc and urging said disc upwardly against the end of the tank.

WILLIAM MAHONY.