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BOTTLE DRIER

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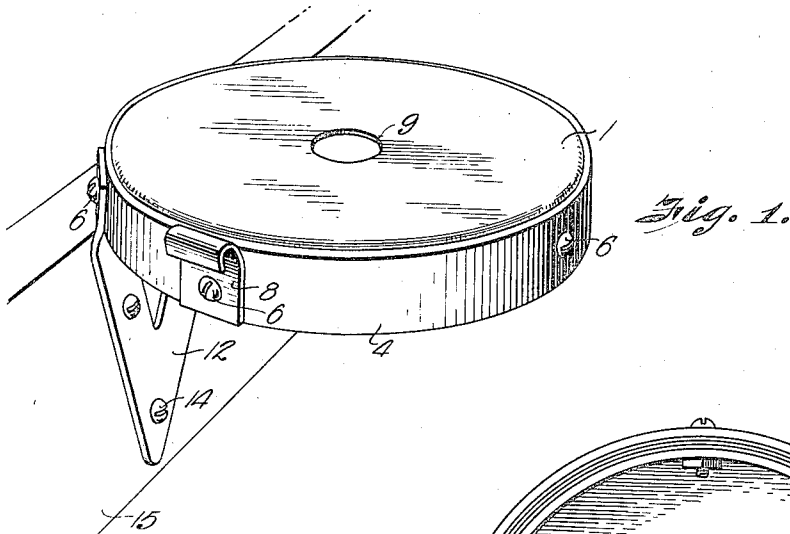


Fig. 1.

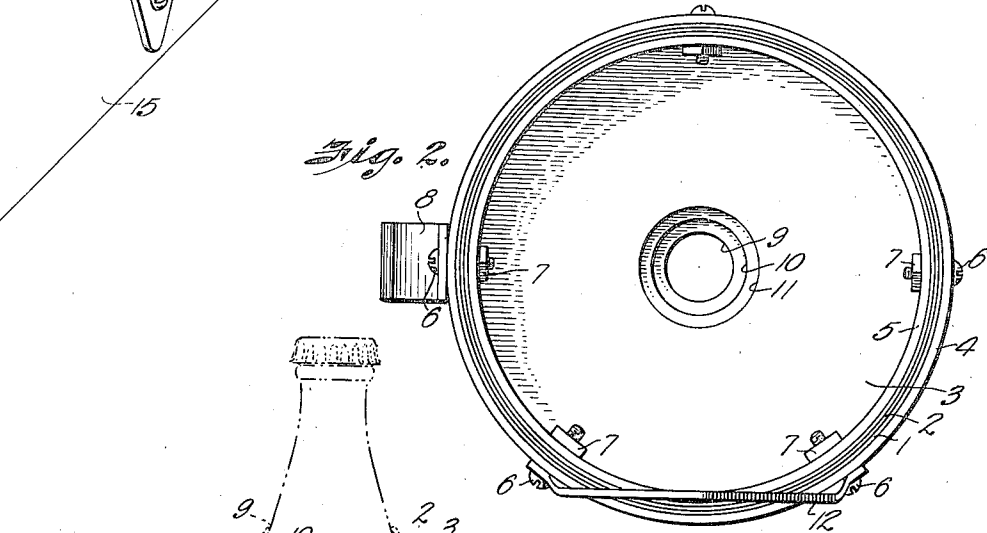


Fig. 2.

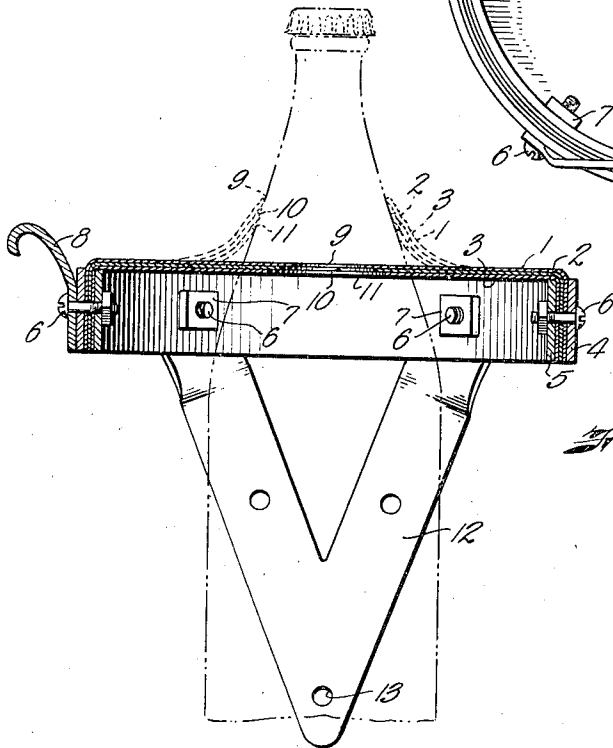


Fig. 3.

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BOTTLE DRIER

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1 Claim. (Cl. 15—210)

My invention relates to a bottle drier.

Bottles are frequently chilled by placing them in a container filled with ice water, or surrounded by ice which ultimately melts and wets the bottles. In soft drink parlors, saloons and the like, bottles are usually dried with towels before being served. The drying process is time consuming and entails the expense of laundering the towels, and necessitates having an ample supply of towels on hand.

One object of my invention is to provide an improved bottle drier, which is also adapted for drying other containers, by which bottles may be wiped dry in a convenient, simple and expeditious manner.

Other and further objects of my invention will appear from the following description.

In general my invention contemplates the provision of a frame over which a plurality of sheets of rubber, or other suitable elastic material, are stretched to form a plurality of contiguous diaphragms. Each diaphragm is provided with a hole, the lower diaphragms having holes progressively larger in diameter.

It has been suggested in the prior art to provide a single diaphragm made of rubber or the like, provided with a hole through which the bottle may be pulled. I have found that a single diaphragm will not operate to wipe a bottle dry. Even two diaphragms will not completely dry the bottle, though two diaphragms will remove a good portion of the moisture. With three diaphragms the bottle is wiped substantially dry. The use of four diaphragms renders it somewhat difficult to pull the bottle through the openings in the diaphragms.

In the accompanying drawing which forms part of the instant specification and is to be read in conjunction therewith, and in which like reference numerals are used to indicate like parts in the various views;

Fig. 1 is a perspective view of a bottle drier showing one embodiment of my invention attached to a wall.

Fig. 2 is a bottom plan view of the bottle drier shown in Fig. 1.

Fig. 3 is a sectional view of the bottle drier shown in Fig. 1, showing a bottle in dotted line being pulled therethrough.

Referring now to the drawing, a plurality of diaphragms 1, 2 and 3, are stretched across an outer frame 4 and an inner frame 5. The diaphragms are made out of rubber or any other suitable material. The frames 4 and 5 may be of any suitable material and of any desired shape. The parts are held in assembled position by means of a plurality of bolts 6 and nuts 7. A bottle opener 8 may be secured by one of the bolts 6 to the outside of frame 4. The up-

permost diaphragm 1 is provided with a central opening 9. The diaphragm 2 is provided with an opening 10, slightly larger in diameter than the opening 9. The lowermost diaphragm 3 is provided with an opening 11, slightly larger in diameter than opening 10. The three diaphragms present a stepped opening, as can readily be seen by reference to Fig. 2.

A bracket 12 is secured to the assembly by means of a pair of the bolts 6, and is provided with openings 13 for the reception of screws 14 adapted to maintain the assembly to any suitable wall 15, which may be on the outside of a container full of cracked ice, ice water and the bottles which are to be served.

In use, the neck of the bottle is passed through the openings 9, 10 and 11, and then pulled through the drying assembly. The placing of the three diaphragms contiguously or immediately adjacent to each other permits them to co-act in the wiping operation in a manner not obtained by spacing them apart. This simultaneous wiping effect of the three layers of flexible material is indicated in the dotted lines in Fig. 3, which shows a bottle passing through the holes of the expanded diaphragms. The bottle may be then served to the customer in a clean, dry state.

It will be readily understood that the flexibility of the rubber is such that bottles of varying size may be dried with one device.

It will be seen that I have accomplished the objects of my invention. I have provided a simple and inexpensive bottle drier which is convenient and efficient in use.

It will be understood that certain features and subcombinations are of utility and may be employed without reference to other features and sub-combinations. This is contemplated by and is within the scope of my claim. It is further obvious that various changes may be made in details within the scope of my claims without departing from the spirit of my invention. It is, therefore, to be understood that my invention is not to be limited to the specific details shown and described.

Having thus described my invention, I claim:

In a bottle drier, a frame, three sheets of elastic sheet material supported by said frame forming contiguous continuous diaphragms, each of said diaphragms being provided with a central circular opening, said openings being concentric, the opening in the middle diaphragm being larger than the opening in one of the outside diaphragms, and smaller than the opening in the other outside diaphragm, the diameters of the openings and the positioning of the diaphragms being such that they co-act to simultaneously wipe the surface of bottles drawn therethrough.

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