

A. T. MacCALLAN.
BOTTLE.
APPLICATION FILED DEC. 11, 1909.

987,474.

Patented Mar. 21, 1911.

FIG. 1

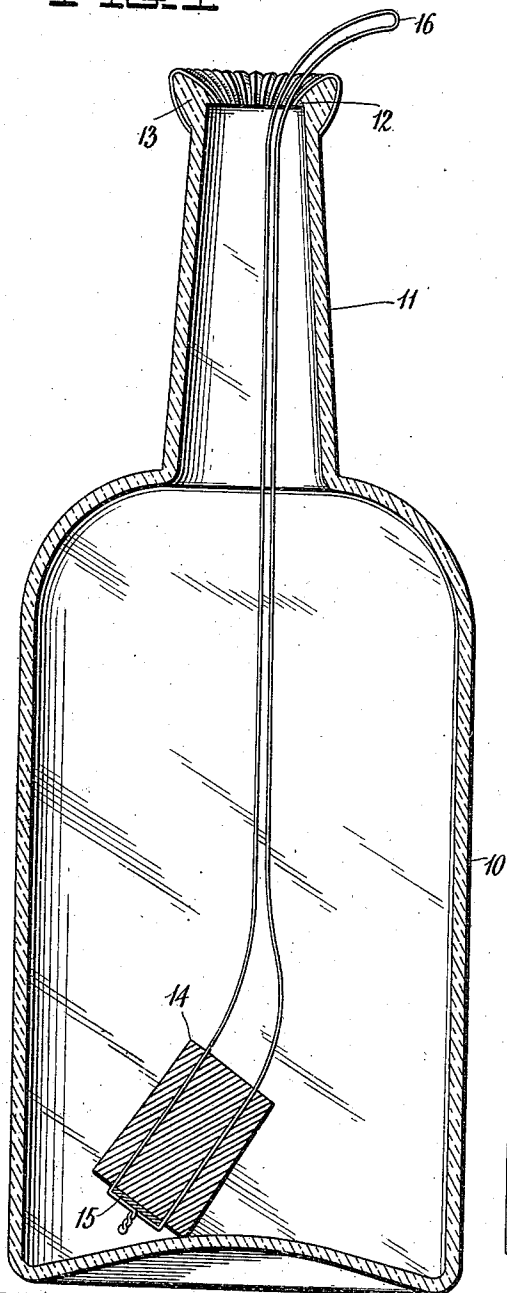
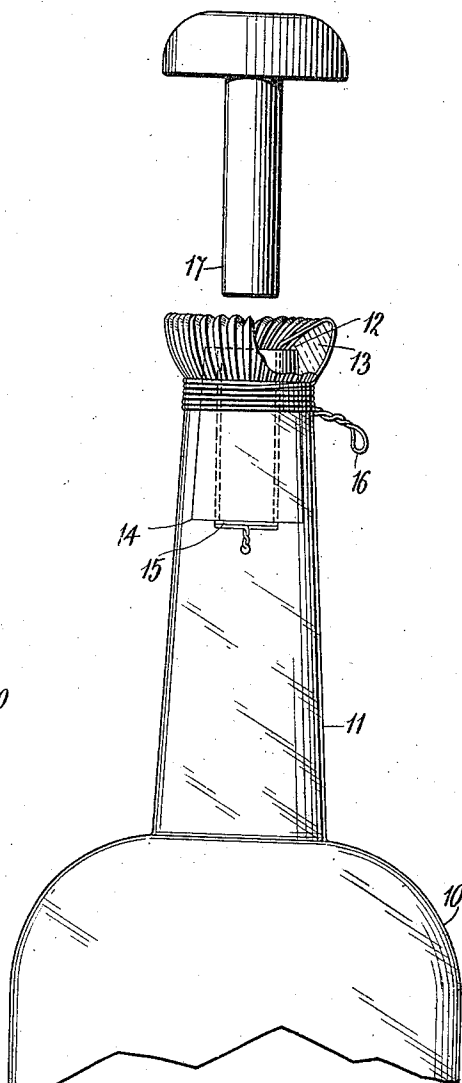


FIG. 2



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UNITED STATES PATENT OFFICE.

ARTHUR T. MACCALLAN, OF SOUTH MANCHESTER, CONNECTICUT, ASSIGNOR OF ONE-FOURTH TO EDWARD A. HOLSTEIN, OF NEW BRITAIN, CONNECTICUT.

BOTTLE.

987,474.

Specification of Letters Patent.

Patented Mar. 21, 1911.

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To all whom it may concern:

Be it known that I, ARTHUR T. MACCALLAN, a subject of the King of Great Britain, residing at South Manchester, in the county of Hartford, State of Connecticut, have invented certain new and useful Improvements in Bottles; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to bottles and has special reference to a type of bottle wherein it will be evident if the bottle is refilled after once using the same.

One object of the invention is to improve and simplify the general construction of bottles of this character.

Another object of the invention is to provide a bottle with an irremovable cork.

A third object of the invention is to provide a bottle with a novel form of lip and means for drawing the cord into place and holding it in such position.

A fourth object of the invention is to provide a bottle of this character which shall be extremely simple in construction and cheap to manufacture.

A fifth object of the invention is to provide, in connection with a bottle of this character, a neck so formed that after the original cork has been removed an extra cork cannot be inserted in such manner as to hold properly.

With the above and other objects in view, the invention consists in general of a bottle having a cork blown therein, the cork being of such size and material as to prevent its removal from the bottle; in combination with means for drawing the cork into position in the neck and retaining it in such position.

The invention further consists in certain novel details of construction and combinations of parts hereinafter fully described, illustrated in the accompanying drawings, and specifically set forth in the claim.

In the accompanying drawings, like characters of reference indicate like parts in the several views, and:—Figure 1 is a vertical section through a bottle constructed in accordance with this invention. Fig 2 is an outside view of the upper portion of the

bottle showing the same corked and the manner in which the cork is secured in the neck.

The numeral 10 indicates the body of a bottle and this body is provided with a tapering neck 11 having at its upper end an inwardly projecting flange 12. The lip of the bottle is indicated at 13 and extends upward from the flange. This lip is provided with a series of grooves or serrations formed thereon in such manner that wire drawn across the lip will be prevented from slipping around.

At 14 is indicated a tapering stopper or cork and this stopper or cork is of such size and is constructed of such material that it cannot be removed through the neck 11. This stopper or cork is inserted in the bottle during the process of blowing and is provided at its large end with a metallic plate 15.

At 16 is a wire loop, the ends of which extend through the stopper 14 and the bight of which extends upward out of the neck. The ends of this wire loop which extend through the stopper are twisted together over the plate so as to hold the latter firmly in position as well as to furnish a means whereby the stopper may be drawn into the neck of the bottle.

In using this bottle, when the same has been filled the bight of the wire is grasped and the stopper pulled firmly up against the flange 12. The wire is then bent downward across the lip 13 and twisted around the bottle until all but a small portion is used. This is accomplished by first wrapping one of the ends around the neck and then wrapping the other alternately. When it is impossible to wrap any more of the wire on the neck the end is twisted as clearly shown in Fig. 2. It will be observed that during this portion of the operation the serrations in the neck keep the wire from slipping around the neck of the bottle and thus greatly facilitate the twisting of the wire around said neck.

When it is desired to open the bottle the wire is cut and the cork forced down inside the bottle by means of a suitable implement such as that indicated at 17. When open in this manner it is rendered impossible for the stopper to be again drawn into position and consequently any second attempt to use the

bottle will reveal the fact that it has been previously used since the stopper will be loose within the bottle.

5 There has thus been provided a simple and efficient device of the kind described and for the purpose specified.

Having thus described the invention, what is claimed as new, is:—

10 The combination with a bottle having a neck provided with an inwardly extending flange around the periphery of the mouth, said neck being further provided with an upwardly and outwardly extending lip having a series of substantially longitudinal serrations formed on the inner and outer faces
15 thereof, of a stopper arranged within the bottle and having a diameter greater than the inside diameter of the flange, a wire having its major portion bent to form a loop

the bight extending through the neck of the 20 bottle to form a finger-piece and having its end portions extending through the stopper and twisted together, and a reinforcing element arranged intermediate the said end portions and the stopper, said major portion 25 of the loop being adapted to be employed in operatively positioning the cork in the neck against the flange, and thence to be passed along certain of the serrations of the lip, and thence wrapped and tied around the 30 neck of the bottle.

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

ARTHUR T. MacCALLAN.

Witnesses:

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Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."
