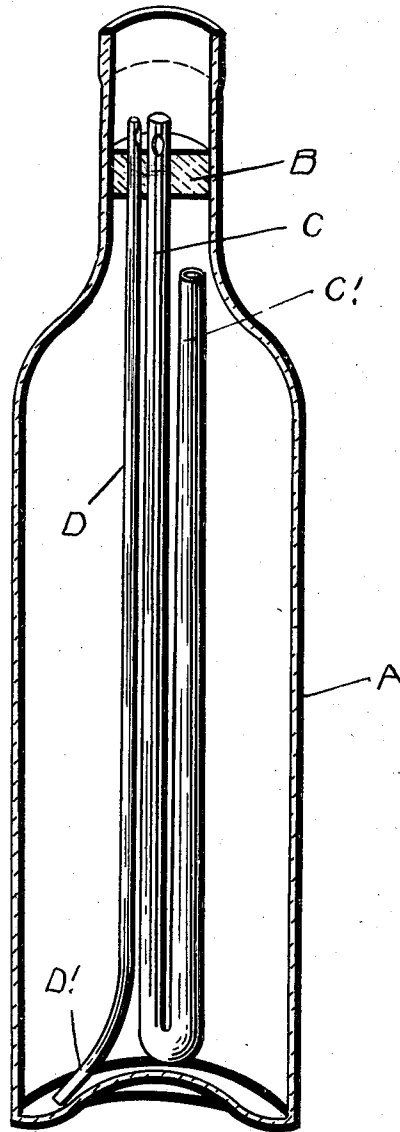


E. C. WALLACE.
NON-REFILLABLE BOTTLE.
APPLICATION FILED OCT. 12, 1910.

981,827.

Patented Jan. 17, 1911.



WITNESSES.
F. M. Kaid.
Clatt Knappfield.

INVENTOR.
E. C. WALLACE.

by
Fred D. Featherston
Att'y

UNITED STATES PATENT OFFICE.

EDWIN CORBY WALLACE, OF EAST AUBURN, CALIFORNIA, ASSIGNOR OF ONE-HALF TO
WILLIAM GORDON McKENDRICK, OF TORONTO, CANADA.

NON-REFILLABLE BOTTLE.

981,827.

Specification of Letters Patent.

Patented Jan. 17, 1911.

Application filed October 12, 1910. Serial No. 586,701.

To all whom it may concern:

Be it known that I, EDWIN CORBY WALLACE, of the city of East Auburn, in the State of California, one of the United States of America, have invented certain new and useful Improvements in Non-Refillable Bottles, of which the following is the specification.

My invention relates to improvements in non-refillable bottles, and the object of the invention is to devise a bottle of this class in which all valves or the like will be dispensed with and yet when the bottle has been once filled and sealed it will be readily seen that it will be practically impossible to refill.

My invention consists of a suitable internal stopper held in the neck, a substantially U-shaped siphon-like tube, the upper closed end of which extends through the stopper and the bottom of which extends down to the bottom of the bottle, and a minor tube also having a closed upper end extending also through the stopper and down to the bottom of the bottle, the tubes being made of glass or other suitable material and formed in detail as hereinafter more particularly explained.

The drawing represents a sectional view of a bottle showing my improved non-refillable device.

A is the bottle.

B is the stopper.

C is a tube made of glass or other suitable material, which extends up through the center of the stopper B and is made of a somewhat U-shape form with the inner end C' extending up in proximity to the neck. The extreme outer end or tip of C is sealed and holes are blown in side of tube as outlet for liquid.

D is a minor tube, the top of which extends through the stopper B. The extreme outer end of D is closed, the orifice is on the side in proximity to the end. The inner end of the minor tube D extends close to the bottom of the bottle.

The bottle is first filled in the usual manner and the stopper with the tubes are inserted. The siphon or U-shape tube C having previously been filled with liquid. Both siphon C and air tube D are securely sealed in the neck of the bottle.

It will be noticed that the ends of the tubes extend slightly above the stopper B leaving, however, plenty of room for the insertion of the cork.

The operation of my device is as follows: When the container or bottle is inverted the U-shaped tube C will act as a siphon, thus permitting the liquid to flow out freely, the air being admitted by means of the tube D, the end of which is above the surface of the liquid, thus permitting free admission of air and giving free passage of liquid. It will of course, be understood that the tubes and stoppers are securely fastened in the neck, so that they cannot be removed without breaking.

From the form of the siphon tubes it will be seen that it will be impossible to refill the bottle, as any attempt to slip a tube over the ends of siphon and air tube at once closes the openings on the sides of said tubes. It will also be my practice, in general at least, to have the siphon and air tube so close together or united that it would be impossible to slip anything in between these two tubes.

What I claim as my invention is:

1. In a non-refillable bottle, the combination with a container or bottle having a stopper in the neck thereof, of a siphon tube U-shape in form and having the outer end extending through the stopper, and closed and a hole in the side of the tube in proximity to such end and the inner end terminating below the stopper, and an air tube extending through the stopper and to the bottom of the bottle and also having a closed end and a hole in the side of the tube in proximity to such end, as and for the purpose specified.

2. In a non-refillable bottle, the combination with a container or bottle having a stopper in the neck thereof, of a siphon tube U-shape in form having the outer end which extends through the stopper sealed at the tip, the opening or orifice being on the side in proximity to the tip, and the inner end terminating in proximity to but below the stopper, and an air tube extending through the stopper to the bottom of the bottle the outer end of said tube being sealed at the tip with an opening in the side in proximity to the tip, as and for the purpose specified.

EDWIN CORBY WALLACE.

Witnesses:

PATRICK J. BRADY,
JOHN B. MCGINTY.