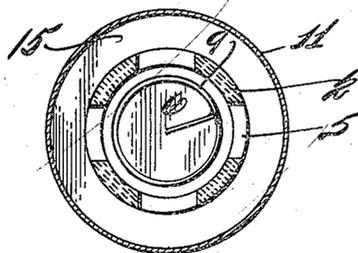
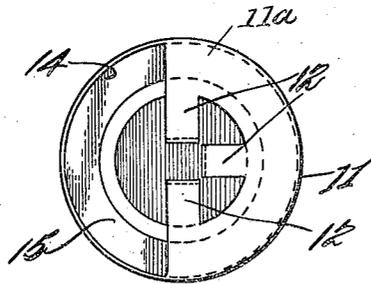
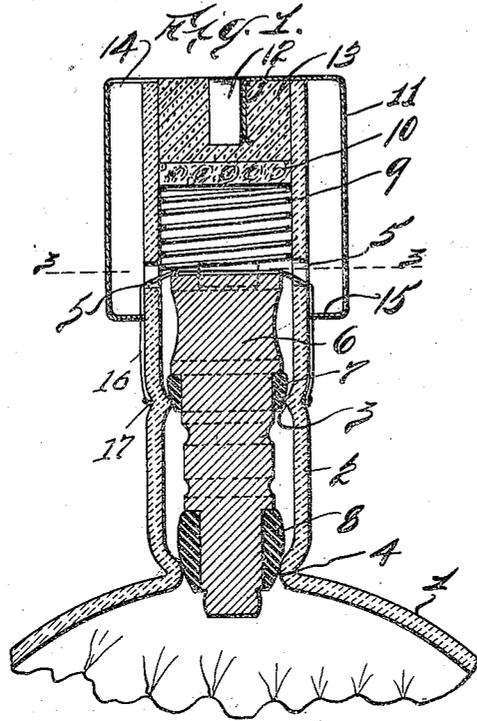


O. E. MONTAPERTO.
 NON-REFILLABLE BOTTLE.
 APPLICATION FILED SEPT. 17, 1912.

1,052,685.

Patented Feb. 11, 1913.



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UNITED STATES PATENT OFFICE.

ORLANDO E. MONTAPERTO, OF ROSEBANK, NEW YORK.

NON-REFILLABLE BOTTLE.

1,052,685.

Specification of Letters Patent.

Patented Feb. 11, 1913.

Application filed September 17, 1912. Serial No. 720,752.

To all whom it may concern:

Be it known that I, ORLANDO E. MONTAPERTO, a citizen of the United States, residing at Rosebank, Staten Island, New York, have invented certain new and useful Improvements in Non-Refillable Bottles, of which the following is a clear, full, and exact description.

This invention relates to a non-refillable bottle, and the object of the invention is to produce a bottle of this type of very simple construction, having efficient means for preventing the refilling of the bottle, the general purpose of the invention being to prevent the perpetration of frauds.

A further object of the invention is to provide a construction which will enable the bottle to be normally effectively sealed before the contents is to be used, but arranged in such a way that the seal may be readily removed without affecting the non-refillable characteristic of the receptacle.

The invention consists in the novel features to be described hereinafter and set forth in the claims.

In the drawing which fully illustrates the preferred embodiment of my invention, Figure 1 is a vertical section through the upper portion of a bottle to which my invention is applied; Fig. 2 is a plan; and Fig. 3 is a cross-section of the bottle taken on the line 3-3 of Fig. 1.

Referring more particularly to the parts, 1 represents a receptacle such as a bottle, preferably formed with an upwardly extending neck 2 which at a convenient point is pressed inwardly in molding so as to form two valve seats 3 and 4, said valve seats being in the form of annular shoulders and the lower seat being of smaller diameter than the upper. In the upper portion of the neck laterally opening ports 5 are formed through which the liquid finds exit.

The bottle is normally closed by valve 6, the body of which is preferably of elongated form and composed of a material having a high specific gravity; a metallic substance is preferable. The valve 6 is provided with bushings or washers 7 and 8 of compressible material which come upon the seats 3 and 4 as indicated. The valve is held on its seats by gravity, but is also pressed toward its seats by a spring 9 which is disposed in the neck directly over the valve, the upper end of the spring thrusting against a gasket 10 of cork or similar material. Above the

gasket 10 I prefer to provide a plug 13 of cement or similar material which is non-removably held in the neck, and by means of this plug the guard 11 is also non-removably secured. In order to accomplish this the guard 11 is provided with inwardly extending fingers 12 which project down from the upper extremity of the guard into the interior of the plug. The guard is preferably of tubular form and of larger diameter than the neck. At the upper end the guard presents an integral flange 11^a which projects over the extremity of the neck and closes off substantially one-half of the end of the guard. The other side of the guard is open, however, so as to form an annular duct 14 which is supplied by the ports 5 with the liquid in pouring from the bottle. The bottom of the guard 11 is formed by flange 15 which projects in to a point adjacent the periphery of the neck so as to prevent the introduction of any instrument into the ports from below the guard.

In order to hold the valve 6 normally on its seat I prefer to provide a seal 16 in the form of a wire or cord which is bound around the annular groove 17 which is formed on the exterior of the neck opposite the seat 3, and from this point the seal extends upwardly to form a loop passing through diametrically opposite members of the ports 5 so as to pass across the upper face of the valve. This seal is preferably formed of wire and evidently securely closes the bottle until its contents are to be used. When the bottle is to be used the seal 16 is removed, and then by giving the bottle a forward jerk the valve will be carried forward off its seat and the liquid can be poured from the bottle. When the bottle goes back to its normal upright position, the spring 9 re-seats the valve. Preferably the upper extremity of the valve 6 is slightly above the lower edges of the ports 5 so as to insure that the seal 16 will exert a tension on the valve tending to hold it on its seat.

With a bottle constructed as described it will be evident that the valve is inaccessible on account of the guard 11 which covers the ports 5, but at the same time permits the outward flow of the liquid through the ports.

It is understood that the embodiment of the invention described above is only one of the many forms the invention may take, and I do not limit myself in the practice of the invention, nor in the scope of the claims

to the particular form or embodiment described above.

What I claim is:

1. A non-refillable bottle having a neck, a valve seat within said neck, a valve mounted within said neck and normally resting on said seat, said neck having lateral ports above said seat, a guard over said neck and protecting said ports, a non-removable plug in said neck securing said guard in position, and means between said valve and said plug tending to hold said valve upon said seat.
2. A non-refillable bottle having a neck, a valve seat within said neck, a valve mounted within said neck and normally resting on said seat, said neck having lateral ports above said seat, a guard over said neck and protecting said ports, a non-removable plug in said neck securing said guard in position, and means between said valve and said plug tending to hold said valve upon said seat, said guard having a duct at one side communicating with said ports and extending to a point near the extremity of said neck.
3. A non-refillable bottle having a neck, a valve seat within said neck, a valve mounted within said neck and normally resting on said seat, said neck having lateral ports above said seat, a guard over said neck and

protecting said ports, a non-removable plug in said neck securing said guard in position, and means between said valve and said plug tending to hold said valve upon said seat, and a member secured on the exterior of said guard and passing through said ports to engage said valve and normally hold the same on said seat.

4. A non-refillable bottle having a neck, said neck having annular shoulders formed on the interior thereof forming seats, a valve mounted in said neck and normally resting on said seats, said neck having laterally disposed ports in the side wall thereof above said valve, a guard of larger diameter than said neck extending downwardly on said neck to a point below said ports, a non-removable plug secured in said neck and securing said guard thereto, said guard having a duct communicating with said ports and adapted to conduct the liquid to a point near the extremity of said neck.

Signed at New York city, New York, this 11th day of September, 1912.

ORLANDO E. MONTAPERIO.

Witnesses:

F. D. AMMAN,
BEATRICE MIRVIS.

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