

M. F. GIFFIN.
 NON-REFILLABLE BOTTLE AND BOTTLE VALVE.
 APPLICATION FILED SEPT. 8, 1909.

944,030.

Patented Dec. 21, 1909.

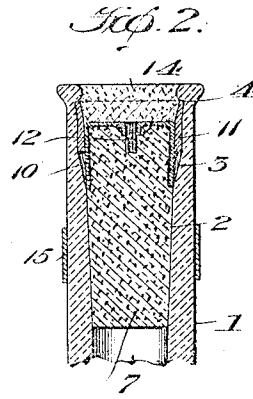
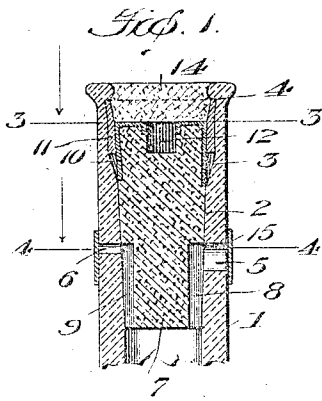


Fig. 5.

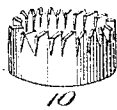


Fig. 3.

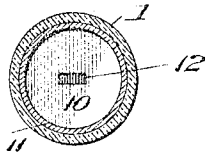


Fig. 4.

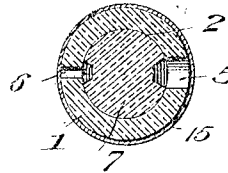
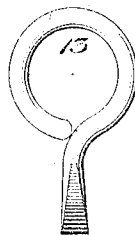


Fig. 6.



Witnesses

Wm. H. Oliver
Geo. M. Hanchin

By

Inventor
Marshall F. Giffin

Henry W. Copp
 Attorney

UNITED STATES PATENT OFFICE.

MARSHEL F. GIFFIN, OF COVE, OREGON.

NON-REFILLABLE BOTTLE AND BOTTLE-VALVE.

944,030.

Specification of Letters Patent.

Patented Dec. 21, 1909.

Application filed September 8, 1909. Serial No. 516,752.

To all whom it may concern.

Be it known that I, MARSHEL F. GIFFIN, a citizen of the United States, residing at Cove, county of Union, and State of Oregon, have invented certain new and useful Improvements in Non-Refillable Bottles and Bottle-Valves, of which the following is a specification.

My invention relates to non-refillable bottles and bottle valves.

The object of the present invention is the provision of a non-refillable bottle of novel construction having a valve of novel form which is sealed within the bottle neck in a new manner, capable of being turned, after the sealing material has been removed, so that the contents of the bottle may be removed, but which may be re-sealed after use, thus preventing refilling by unauthorized parties.

The invention contemplates the provision of a bottle neck having dispensing and air inlet openings, combined with a rotatable valve of novel construction which is retained in the bottle neck in a novel manner and is sealed up initially but may be unsealed and the valve rotated to obtain the contents of the bottle at any time and afterward resealed, if desired, all as will more fully appear hereinafter.

The present invention, although illustrated and described in connection with a bottle, is just as adaptable to a can or jug, and such additional use is intended to be covered by the claims.

In the accompanying drawings:—Figures 1 and 2 are vertical sections taken at right angles to each other; Fig. 3, a cross section on line 3—3 of Fig. 1; Fig. 4, a cross section on line 4—4 of Fig. 1; Fig. 5, a detail of the collar; and Fig. 6, a detail of the tool for turning the valve.

The bottle neck 1 is provided with a valve seat 2 which is tapered from its upper part downwardly so as to afford a firm seating for the bottle valve. Above the seat the neck is provided with a flared part 3 and an annular channel or groove 4. The neck is also provided with a dispensing opening 5 and with an air opening 6.

The bottle valve 7 may be of any preferred material, preferably cork, and of such size that it will snugly yet easily fit the valve seat 2, and yet be adapted for rotation therein. Said valve is provided with channels 8

and 9 extending lengthwise thereof which are adapted to be brought into register with the openings 5 and 6. If the valve is made of cork, rubber or other similar material, its upper end is provided with a metallic cap 10, but if made of glass or similar material, this cap need not be used and the valve will be so formed or shaped as to carry out the purpose of the cap which is that of affording a suitable end to be journaled in a collar 11 which is initially of the form shown in Fig. 5, but after insertion of the valve in the neck is placed over the upper end of the valve and the upper edge of said collar is expanded into the groove 4, thus constituting a retaining means which prevents removal of the valve.

The upper end of the valve is provided with a suitable opening 12 for the reception of a tool 13 such as shown in Fig. 6, whereby the valve may be turned to open or close the bottle.

After the bottle has been filled and the valve turned with the channel 4 out of register with the openings 5 and 6, sealing wax or some other suitable material 14 is poured into the mouth of the neck, and this material has to be dug out or broken when the bottle is to be used to enable the user to insert the tool 13 in the opening 12.

After the sealing material has thus been removed, the bottle can be used as a dispensing bottle, the valve permitting easy opening and closing thereof, but any suitable sealing material may be inserted in the mouth of the bottle at any time when it is desired to seal the bottle against unauthorized use.

After the bottle is filled and sealed a paper band 15 is preferably pasted around the bottle neck over the openings 5 and 6 to seal same against air and dust, until used. This band is soaked or scraped off when the contents of the bottle are to be drawn off.

Having thus described my invention, what I claim as new and desire to secure by Letters Patent, is:—

1. In a non-refillable bottle or the like, the combination with the bottle mouth provided with dispensing and air openings therein, of a movable valve in said mouth which is provided with ports adapted to be made to communicate with the openings aforesaid, and means for permanently retaining said valve in said bottle mouth com-

prising means on the bottle mouth and a collar in the bottle mouth engaged with said means.

2. In a non-refillable bottle or the like, the combination with the bottle mouth provided with dispensing and air openings therein, of a movable valve in said mouth which is provided with ports adapted to be made to communicate with the openings aforesaid, and means for permanently retaining said valve in said bottle mouth comprising a shoulder in the bottle mouth and a collar in the mouth which is expanded into engagement with the shoulder.

3. In a non-refillable bottle or the like, and valve, the combination with the bottle mouth having dispensing and air openings, of a rotatable valve in said mouth which is provided with ports adapted to be brought into communication with the openings aforesaid, said mouth being provided with an an-

nular shoulder, and an annular collar within the mouth which is expanded under said shoulder and serves to retain the valve in the mouth without interfering with the rotation thereof.

4. In a non-refillable bottle or the like, the combination with the bottle mouth provided with dispensing and air openings therein, of a movable valve in said mouth which is provided with ports adapted to be made to communicate with the openings aforesaid, means for permanently retaining said valve in said bottle mouth, and sealing material in the mouth above the valve.

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

MARSHEL F. GIFFIN.

Witnesses:

SAMUEL G. WHITE,
D. H. LAYNE.