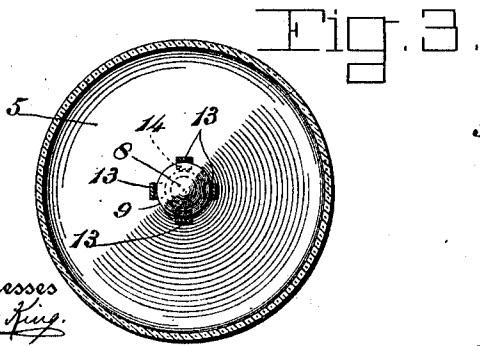
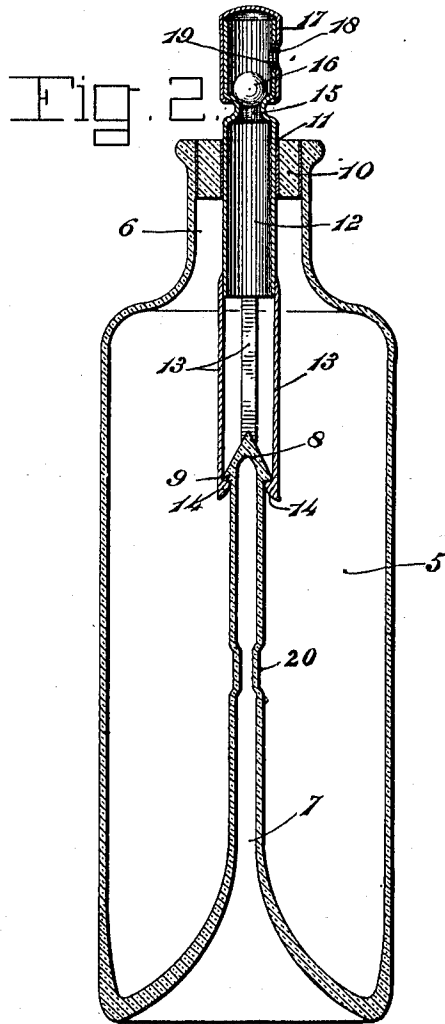
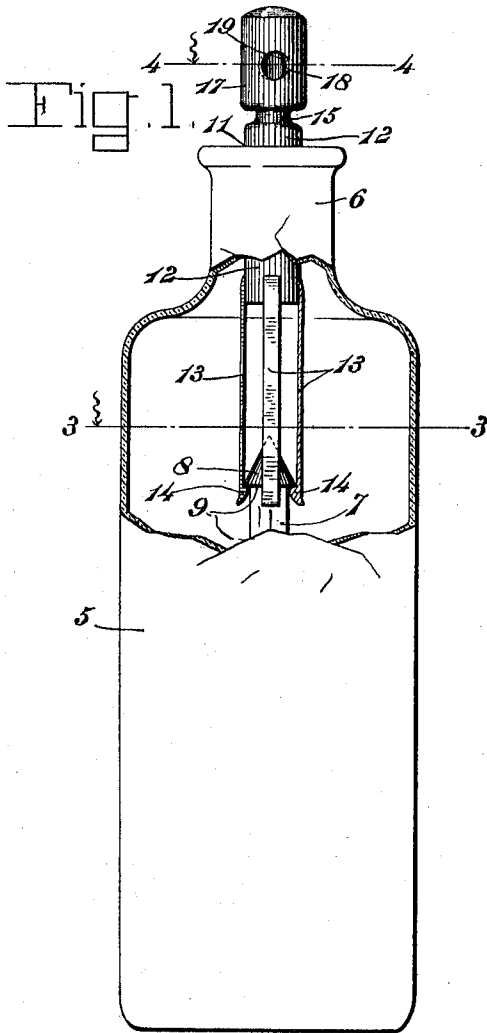


F. S. WHITNEY.
NON-REFILLABLE BOTTLE.
APPLICATION FILED OCT. 22, 1910.

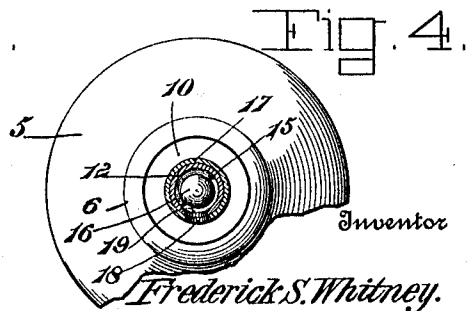
1,004,513.

Patented Sept. 26, 1911.



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FREDERICK S. WHITNEY, OF SEATTLE, WASHINGTON.

NON-REFILLABLE BOTTLE.

1,004,513.

Specification of Letters Patent. Patented Sept. 26, 1911.

Application filed October 22, 1910. Serial No. 588,434.

To all whom it may concern:

Be it known that I, FREDERICK S. WHITNEY, a subject of the King of Great Britain, residing at Seattle, in the county of King and State of Washington, have invented new and useful Improvements in Non-Refillable Bottles, of which the following is a specification.

The invention relates to bottles, and more particularly to the class of non-refillable bottles.

The primary object of the invention is the provision of a bottle in which the contents thereof may be readily and conveniently dispensed from the same, but on the emptying or discharge of the entire quantity or contents from the bottle it will be impossible to refill the same, thereby destroying the further usefulness of the bottle.

Another object of the invention is the provision of a bottle in which a person in possession thereof, after the bottle has been once filled will be unable to surreptitiously alter the contents within the bottle, and on the emptying of such contents will be unable to refill the same, thereby assuring the genuineness of the contents within the bottle as originally introduced therein.

A still further object of the invention is the provision of a bottle of this character which is simple in construction, thoroughly reliable and efficient in operation, and inexpensive in manufacture.

With these and other objects in view, the invention consists in the construction, combination and arrangement of parts as will be hereinafter more fully described, illustrated in the accompanying drawings and pointed out in the appended claim.

In the drawings:—Figure 1 is a side elevation of a bottle constructed in accordance with the invention, the same being shown partly in section. Fig. 2 is a vertical longitudinal sectional view thereof. Fig. 3 is a sectional view on the line 3—3 of Fig. 1. Fig. 4 is a sectional view on the line 4—4 of Fig. 1.

Similar reference characters are employed to designate corresponding parts throughout the several views of the drawings.

Referring to the drawings by numerals, the bottle comprises a body 5 having the usual neck 6, the body 5 at its bottom being formed with an upwardly tapered central tube 7, which latter is preferably hollow and terminates contiguous the neck 6 of the bot-

tle in an enlarged conical head 8, the latter being of increased diameter to the diameter of the tube 7 at its upper end to provide an annular flange 9 to be engaged by a dispensing stopper, as will be hereinafter more fully described.

Suitably sealed, or otherwise permanently fastened, as for instance by the use of cement in the bottle neck 6 at its mouth is a cork or disk 10, the cork or disk 10, tube 7 and the body 5 of the throttle being preferably constructed from glass. The interior of the bottle neck is suitably glazed and also the cork or disk 10 is glazed.

Formed centrally within the cork or disk 10 is an opening 11 through which is introduced the contents into the bottle and after the filling of the bottle there is passed through this opening a dispensing stopper comprising a hollow tube 12, the same being formed at its inner end with a plurality of yieldable gripping fingers 13 spaced from each other and provided at their free ends with inturned hook bills 14, the latter being engaged with the annular shoulder 9 about the conical head 8 of the tube 7 on forcing inwardly within the bottle the dispensing tube 12, the conical head 8 being adapted to spread the yielding fingers 13, whereby the hook ends 14 will engage with the shoulder 9 for the fastening or the connection of the dispensing tube 12 with the central tube 7 within the bottle. The dispensing tube 12 when engaged with the inner tube 7 in the body 5 of the bottle is suitably fastened or cemented to the cork or disk 10 between the tube 12 and the wall of the opening 11 in the disk or cork 10 through which the said tube is passed. This dispensing tube 12 is contracted at a point spaced from its outer or free end, as at 15, to form a valve bearing seat for a displace ball valve 16 confined within the dispensing tube 12 between the seat 15 and the outer closed end thereof.

Suitably mounted for rotation upon the outer free end of the dispensing tube 12 is a closure cap 17, the latter being provided with a discharge opening 18 adapted to be brought into registry with a similar opening 19 formed on the side of the dispensing tube so that on the registration of these openings 18 and 19 and upon the upsetting or inversion of the bottle the ball valve 16 will traverse to the closed end of the closure cap 17 beyond the said openings, thereby permitting the free egress of the contents from the

bottle, but upon bringing the bottle to normal position the ball valve 16 will drop into its seat 15, thereby closing the bottle and preventing any possibility of introducing
5 liquid therein.

Medially of the length of the tube 7 is a contracted portion 20 which makes this tube fragile at its contracted portion so that on an attempt to extract the tube 12 from the bottle it will break thereby destroying the usefulness of the said bottle and at the same time enabling detection that the bottle has been tampered with by a malicious person.

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

The combination with a bottle body having a neck, of a tube projecting upwardly

from the bottom of the bottle, an enlarged conical head formed integral with the upper end of said tube, a hollow tube sealed in the neck of the bottle, a plurality of yieldable gripping fingers formed at the lower end of said tube and spaced from one another, the free ends of said fingers being provided with hooks, said conical head forming an annular flange, and said hooks adapted to engage said flange upon the sealing of the bottle whereby to prevent refilling of the bottle.

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

FREDERICK S. WHITNEY.

Witnesses:

THOMAS B. MACMAHON,
E. I. HURLEY.

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