

No. 811,387.

PATENTED JAN. 30, 1906.

W. H. DARE.
NON-REFILLABLE BOTTLE.
APPLICATION FILED MAY 20, 1905.

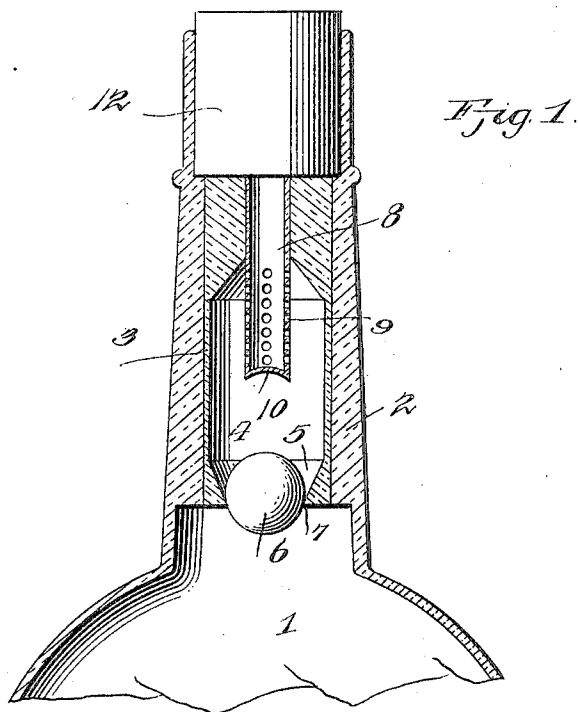
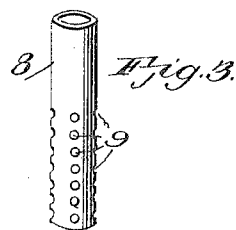
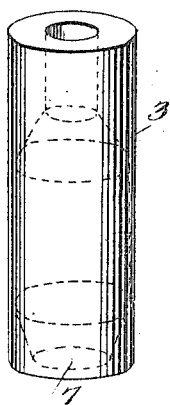


Fig. 2.



Witnesses
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UNITED STATES PATENT OFFICE.

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NON-REFILLABLE BOTTLE.

No. 811,387.

Specification of Letters Patent.

Patented Jan. 30, 1906.

Application filed May 20, 1905. Serial No. 261,401.

To all whom it may concern:

Be it known that I, WILLIAM H. DARE, a citizen of the United States of America, residing at Whitestone, in the county of Queens and State of New York, have invented new and useful Improvements in Non-Refillable Bottles, of which the following is a specification.

This invention relates to non-refillable bottles, and has for its objects to produce a comparatively simple and inexpensive device of this character which will permit the contents of the bottle to be discharged and one which will prevent the introduction of liquid into the bottle after the initial filling and sealing of the latter, thus obviating the fraudulent substitution of an inferior grade of goods for that originally contained in the bottle.

A further object of the invention is to provide a device of this character having a movable valve and a shield arranged above the latter and one wherein the shield constitutes a stop for limiting the opening movement of the valve and a discharge-duct for the liquid. With these and other objects in view the invention comprises the novel features of construction and combination of parts more fully hereinafter described.

In the accompanying drawings, Figure 1 is a central longitudinal section through a bottle-neck equipped with mechanism embodying the invention. Fig. 2 is a perspective view of the valve-casing, and Fig. 3 is a perspective view of the shield.

Referring to the drawings, 1 designates a bottle having a neck 2, in which is seated and secured a tubular valve-casing 3, provided with an internal chamber 4, terminating at its lower end in an inner conical portion or valve-seat 5, designed to receive a spherical or ball valve 6, arranged for movement within the casing and adapted to close an opening 7 at the lower end of the latter and by means of which the casing communicates with the interior of the bottle.

Entered into the upper end of the casing 3 and projecting downward into the chamber 4 is a tubular member or shield 8, closed at its lower end and having its side wall within the chamber provided with a series of perforations 9, constituting passages through which liquid may flow from the chamber into the tube, the lower closed end of the latter being

concaved, as at 10, to receive and conform to the valve 6. The tube 8, which constitutes a discharge-duct, projects through the upper end of casing 3 and has its outer end open, there being normally seated in the mouth of the bottle a cork 12 for closing said duct. The casing has its inner walls at its upper end convergently inclined, whereby the liquid while being discharged will be properly directed toward the tube 8.

In practice after the bottle has been filled the casing 3 is seated and secured in the neck, after which the cork 12 is applied, as usual. The valve 6 normally rests upon the seat 5 for preventing the introduction of liquid to the bottle, but may move freely to permit discharge of the contents of the latter, it being understood that the liquid passes through the opening 7 into the valve-casing and thence through the openings 9 to the discharge-duct 8. It is apparent that the member 8 effectually prevents the introduction of a wire or other instrument for tampering with the valve.

From the foregoing it is apparent that there is produced a simple efficient device which in practice will admirably perform its functions to the attainment of the ends in view, it being understood that minor changes in the details herein set forth may be resorted to without departing from the spirit of the invention.

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

The combination with a bottle having a neck, of a casing seated in the latter and provided with an internal chamber having an inlet-opening and a valve-seat surrounding said opening, a tubular shield entered through the normally upper end of the casing and projected into said chamber, the tube having its side walls perforated within the chamber and its inner end closed and concaved to receive the valve and the casing having its upper end walls convergently inclined for directing liquid toward the tube, and a valve movably disposed in the chamber and adapted to normally rest upon said seat.

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

WILLIAM H. DARE.

Witnesses:

WILLIAM FORD,
JOHN RICKER.