

No. 712,714.

Patented Nov. 4, 1902.

W. C. PEASE.
NON-REFILLABLE BOTTLE.

(Application filed Feb. 27, 1901.)

(No Model.)

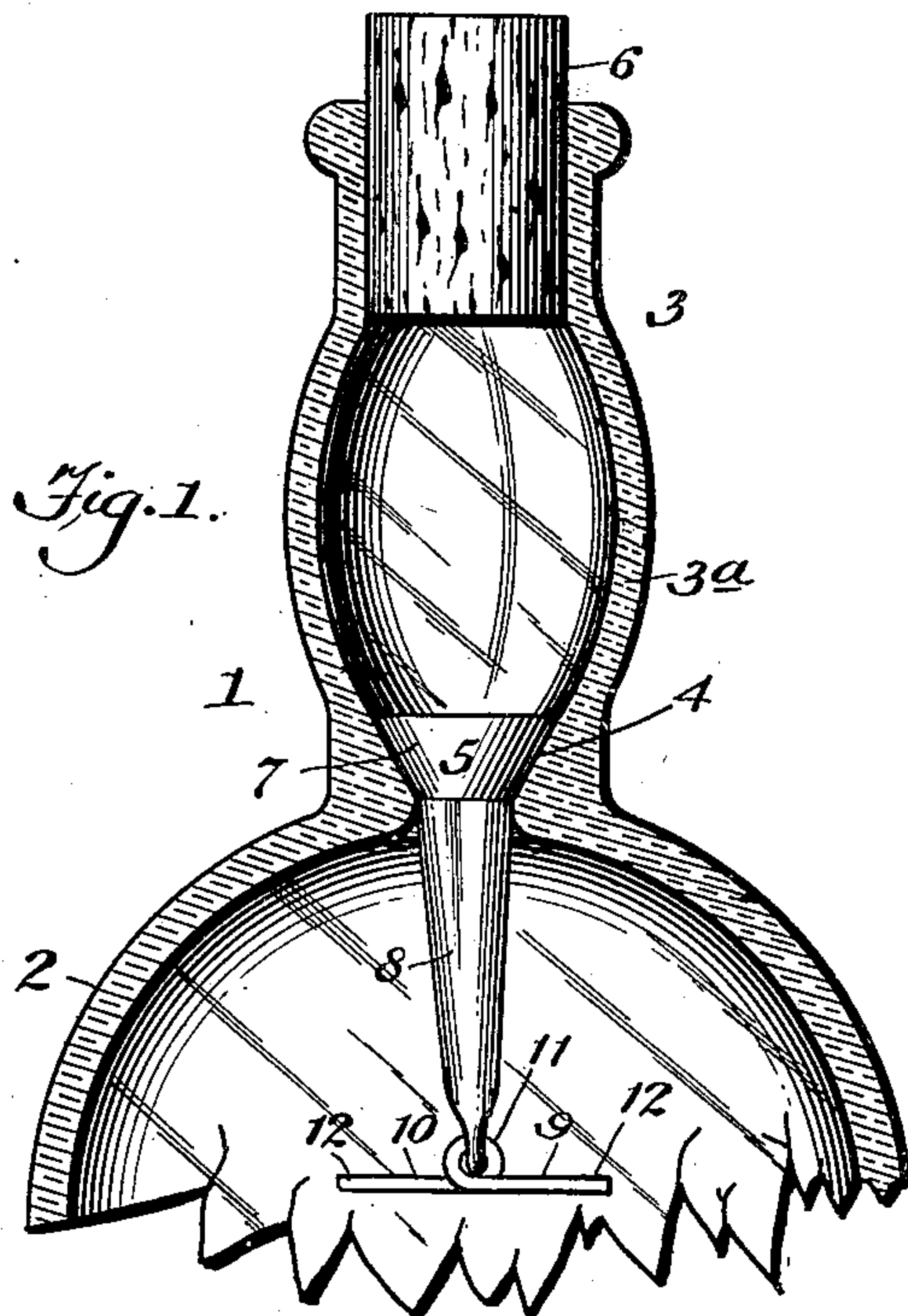


Fig. 2.

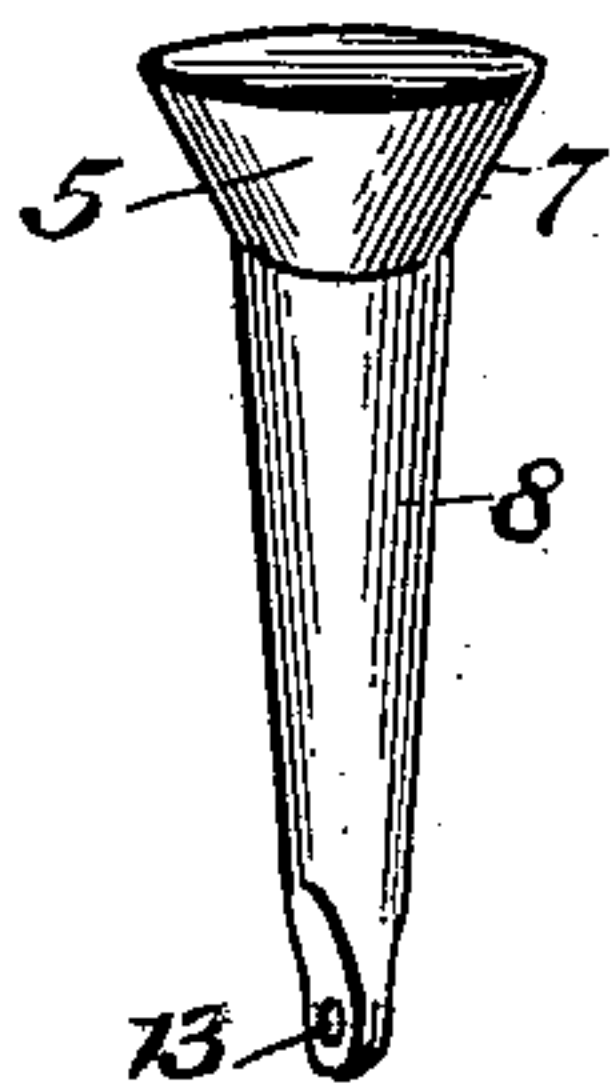
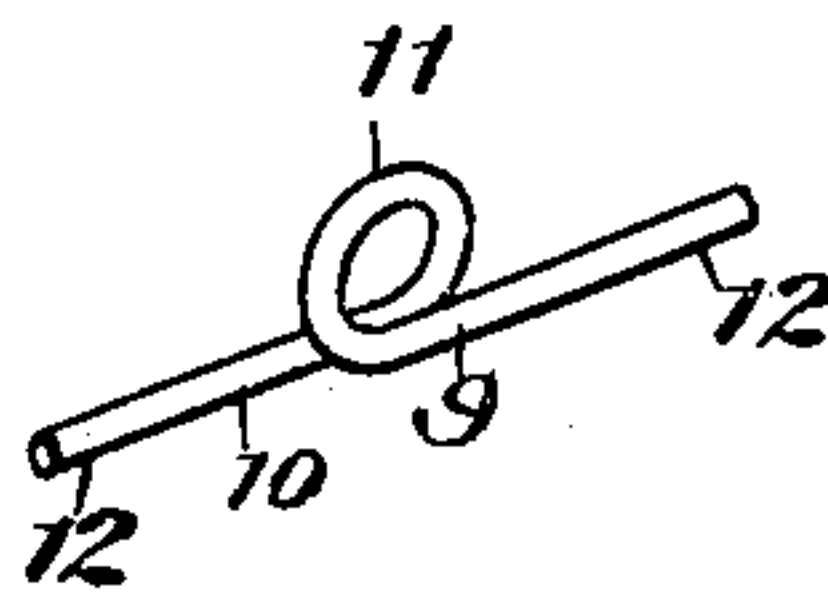


Fig. 3.



WITNESSES:

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UNITED STATES PATENT OFFICE.

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NON-REFILLABLE BOTTLE.

SPECIFICATION forming part of Letters Patent No. 712,714, dated November 4, 1902.

Application filed February 27, 1901. Serial No. 49,032. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM C. PEASE, a citizen of the United States, residing at South Eliot, in the county of York and State of Maine, have invented certain new and useful Improvements in Non-Refillable Bottles, of which the following is a specification.

This invention relates to non-refillable bottles; and it has for its object to provide an improved device of this class which shall be superior in point of simplicity, inexpensiveness, and general efficiency.

In the drawings, Figure 1 is a detail vertical sectional view of the improved bottle. Fig. 2 is a detail perspective view of the improved valve device, which constitutes the essential feature of the invention. Fig. 3 is a detail perspective view of a lock-bar which is carried by the valve device and limits the movement of the same.

Corresponding parts in all the figures are denoted by the same reference characters.

Referring to the drawings, 1 designates my improved non-refillable bottle, which comprises a body portion 2 of any desired type or form and a neck portion 3, which is bulbous in form and is provided at its base or at the point of junction with the body portion with a conical valve-seat 4, upon which the conical valve device 5 is seated when in operative position. The neck portion 3 is of proper diameter above the valve-seat 4 to permit of play of the valve device 5 above the valve-seat, and said neck portion may receive a suitable stopper or cork 6 above the valve device and valve-seat.

In the preferred form of construction the valve device 5 consists of a solid conical body portion 7, from which depends an integral projection 8, which when the valve is seated upon the valve-seat projects downwardly within the body portion 2 of the bottle. The valve device 5 may be cast or molded from a suitable metal or amalgam of metals.

The valve device 5 carries at the lower end of the integral projection 8 a lock-bar 9, which prevents the extraction of the valve device from its operative position in the bottle. In the preferred form of construction the lock-bar 9 consists of a single length 10 of stiff metal wire which is looped centrally, as at 11,

and the end portions 12 of which extend in parallelism and in opposite directions. The lock-bar 9 is preferably connected with the valve device by passing one end 12 of the wire 10 through a suitable eye or opening 13, which is formed in the lower end of the projection 8 of the valve device, until the looped central portion of the wire is seated in the eye or opening 13. The lock-bar 9 in its operative connection with the valve device is capable of turning into a position parallel with the projection 8 of the valve device and in this position may be readily passed downwardly into the body portion of the bottle when the valve device is brought into seated position upon the valve-seat 4. After the lock-bar has passed beneath the valve-seat it depends from the valve device in horizontal position, and thus prevents the extraction of the valve device from the bottle-neck, its longitudinal extent being greater than the width of the opening between the body portion of the bottle and the neck portion of the same.

The operation and advantages of my improved non-refillable bottle will be readily understood. The valve device operates freely longitudinally of the bottle when the same is tilted in the act of pouring or decanting the contents of the same, leaving its seat 4 when the bottle is tilted into pouring position, and thus permitting the contents of the bottle to pass around the valve device and out through the neck portion, which may be slightly bulbous in form, as at 3^a, adjacent the valve-seat 4. The valve device is limited in its outward-sliding movement by contact of the lock-bar with the top of the body portion of the bottle. As soon as the bottle is restored to upright normal position the valve device seats upon the valve-seat, and any attempt to fill the bottle through the neck portion is defeated by the valve device. It is impossible to pass any implement downwardly through the neck portion and grasp the lock-bar with the object of so manipulating the same as to permit of the extraction of the valve device from the bottle.

The entire device is simple and inexpensive in construction and is extremely efficient in use and effectually serves the uses of a device of this class.

I do not desire to be understood as limiting myself to the details of construction and arrangement as herein described and illustrated, as it is manifest that variations and
5 modifications may be made in the features of construction and arrangement in the adaptation of the device to various conditions of use without departing from the spirit and scope of my invention and improvements. I
10 therefore reserve the right to all such variation and modification as properly falls within the scope of my invention and the terms of the following claim.

Having thus described my invention, I
15 claim and desire to secure by Letters Patent—

A device of the class described, comprising a body and a neck the lower inside walls of which latter incline inwardly to the juncture

of the body and neck, a member shaped like 20
a threadless screw with a head having a flat top and sides inclined complementary to the inside walls of the neck adjoining the junction of the body and neck and with a tapering shank fitting closely in the junction of 25
the body and neck at its upper end and having its lower and smaller end flattened and perforated, and a locking device embodying a piece of wire having a central loop seated in said perforation and ends extending in opposite directions. 30

In testimony whereof I have signed my name in the presence of the subscribing witnesses.

WILLIAM C. PEASE.

Witnesses:

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J. H. DIXON.