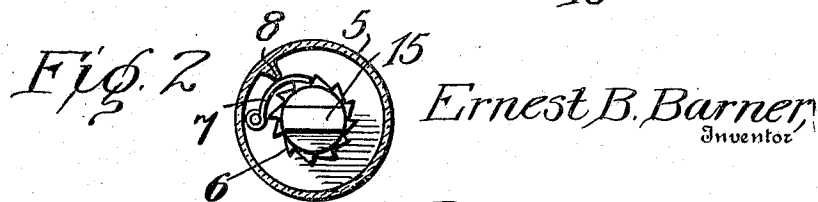
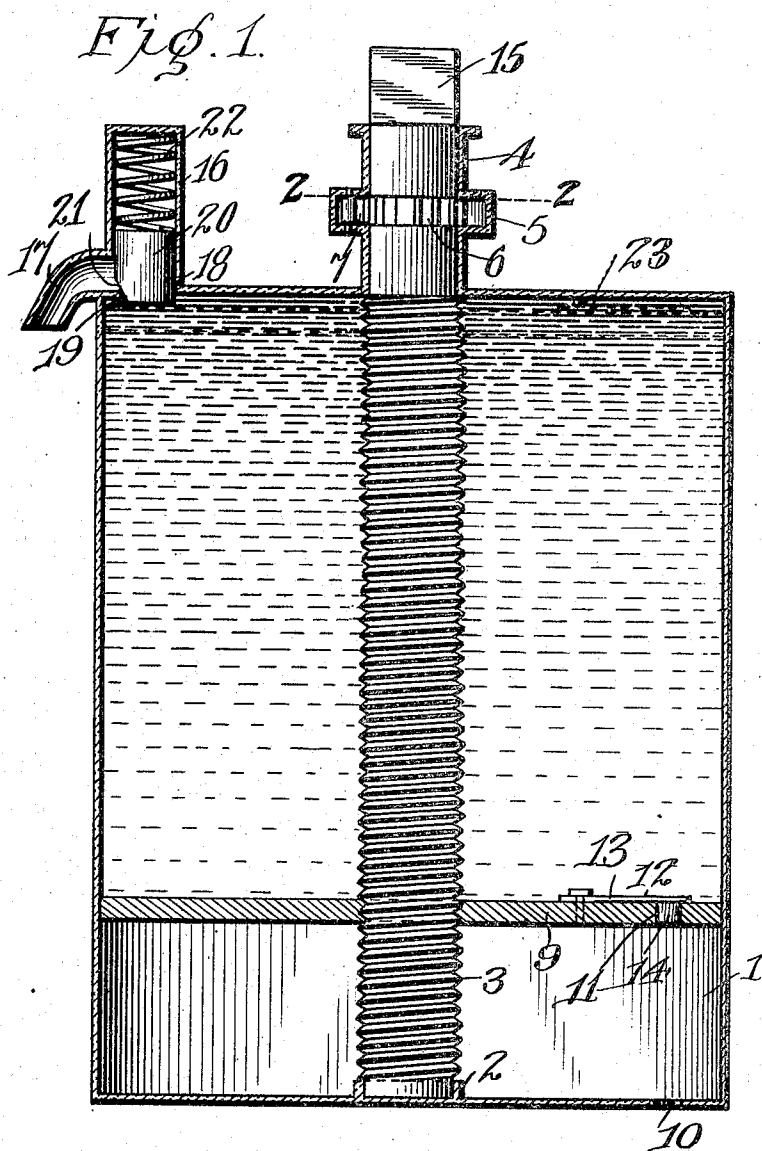


E. B. BARNER.
NON-REFILLABLE BOTTLE.
APPLICATION FILED APR. 3, 1909.

941,551.

Patented Nov. 30, 1909.



Witnesses
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UNITED STATES PATENT OFFICE.

ERNEST B. BARNER, OF NEWBERG, OREGON.

NON-REFILLABLE BOTTLE.

941,551

Specification of Letters Patent. Patented Nov. 30, 1909.

Application filed April 3, 1909. Serial No. 487,735.

To all whom it may concern:

Be it known that I, ERNEST B. BARNER, a citizen of the United States, residing at Newberg, in the county of Yamhill and State of Oregon, have invented certain new and useful Improvements in Non-Refillable Bottles, of which the following is a specification, reference being had therein to the accompanying drawing.

This invention relates to non-refillable bottles, and has for its object the production of a bottle, which when emptied cannot be refilled.

Another object of this invention is the production of a non-refillable bottle, which is simple in construction and consists of a comparatively small number of parts.

With these and other objects in view this invention consists of certain novel constructions, combinations, and arrangements of parts as will be hereinafter fully described and claimed.

In the drawings: Figure 1 is a longitudinal section of the bottle; and, Fig. 2 is a section taken on line 2—2 of Fig. 1.

Referring to the drawings by numerals, 1 designates the body of the receptacle, which is provided upon the bottom thereof with an upwardly extending collar 2, formed in the inside of the receptacle in which is positioned the lower end of the central screw-member 3. The receptacle 1 is also provided upon the upper end with a neck portion 4, which neck portion is provided with a bulged, or outwardly-extending portion 5. The upper end of the screw-member 3 is journaled in the neck portion 4, and upon the portion of the screw-member 3, which is positioned in the neck is formed a ratchet 6, and said ratchet 6, is positioned in said bulged portion. A spring pawl 7 is pivotally secured in said bulged portion, as shown in Fig. 2, and upon one side of the bulged portion 5 is formed an inwardly-extending lug 8, which bears against the spring pawl 7, and normally holds the end of the spring pawl in engagement with one of the ratchet teeth of the ratchet 6.

The portion of the screw-member 3, which is between the neck 4 and the collar 2 upon the bottom of the bottle, or receptacle, is threaded, and upon this threaded portion is adapted to travel a plunger 9. In the bottom of the bottle is formed an aperture 10, which aperture, when the plunger 9 is in

the bottom of the bottle, or receptacle, will communicate with the aperture 11, formed in said plunger, and a spring valve-member 12 is adapted to close the aperture 11 and prevent the liquid from leaking out of said aperture after the receptacle has been filled.

While the receptacle is being filled a nozzle, or other suitable means, is adapted to be positioned in said aperture, and push the valve-member 12 out of the aperture 11 and allow the liquid to flow into the receptacle until the same is filled. As soon as the receptacle is filled and the nozzle is removed from the aperture 11, the valve-member 12 will readily close the aperture and prevent the leakage of liquid therethrough. The valve-member 12 comprises a flat spring portion 13 and a projecting portion 14, which is adapted to fit in the aperture 11 of the plunger 9. Upon the upper end of the screw-member 3 is formed a flattened portion 15 so as to allow the same to be readily rotated by gripping the same with the fingers.

An upwardly-extending casing 16 is formed upon the upper end of the receptacle, and this casing is provided with a discharge spout 17. An aperture 18 forms a communication between the casing 16 and the receptacle, and allows the liquid to be discharged from the spout 17. Upon one side of the aperture 18 is formed a downwardly-extending lip 19, and in the casing 16 is positioned a plunger 20, which plunger is provided upon one side with a beveled portion 21, which beveled portion 21 engages the lip portion 19, and tightly closes the aperture, or opening 18, and normally prevents the flow of liquid therethrough. A spring 22 is positioned in the top of the casing 16 and normally holds the plunger 20 in the aperture 18.

From the foregoing description, it will be readily seen that when the screw-member 3 is rotated the plunger 9 will be drawn upward by means of the threads thereon, and the pressure of the liquid upon the plunger 20 will force the same into the casing 16, and allow the liquid to flow out through the discharge spout 17. By having a ratchet formed upon the screw-member 3, and said ratchet being engaged by the spring pawl, it will be obvious that the screw-member 3 can be only rotated in one direction, and, therefore, as soon as the plunger 9 is drawn

to the top of the bottle, as shown at 23, and all the liquid has been forced out of the bottle, the same cannot be refilled. It will, also be obvious that by having the aperture 5 18 provided on one side with a downwardly-extending lip 19 and the plunger 20 being provided on one side with a beveled portion 21 that when the plunger 20 is forced into the aperture 18, the opening will be tightly 10 closed, and also by having the downwardly-extending portion when the liquid is forced against the plunger 20 the same will readily yield and allow the liquid to flow through the aperture and out of the discharge 15 spout 17.

What I claim is:

1. A device of the character described comprising a body portion, provided with a central screw and a plunger traveling thereon, said body provided with a neck portion, a ratchet carried by said central screw, said neck provided with a bulged portion, a pawl positioned in said bulged portion and adapted to engage said ratchet for preventing the rotation of said screw in one direction, said body provided with an outlet opening, and means carried by said body and adapted to normally close said outlet opening.

2. A device of the character described comprising a receptacle, a threaded shaft positioned therein and a follower adapted to travel thereon, a ratchet carried by said shaft, said receptacle provided with a neck and said neck provided with a bulged portion, a pawl positioned in said bulged portion, said pawl being formed of resilient material, a lug formed in said bulged portion and engaging said resilient pawl for normally holding the same in engagement with said ratchet for preventing the rotation of said shaft in one direction.

3. A receptacle of the class described comprising a body portion, a threaded shaft in said body portion and a plunger positioned thereon, said plunger provided with an aperture formed therein constituting an inlet opening and a spring pressed closure

carried by said plunger and adapted to normally close said opening.

4. A receptacle of the class described comprising a body, a central screw positioned therein, a follower adapted to travel thereon, a casing formed upon the top of said receptacle and provided with a discharge 55 nozzle, said receptacle provided with an aperture formed therein and communicating with said casing and means carried by said casing for normally closing said aperture, and preventing the flow of liquid there- 60 through.

5. A receptacle of the class described comprising a body, a threaded shaft positioned therein, a follower adapted to travel thereon, a ratchet carried by said shaft, a spring 65 pawl carried by said body and adapted to engage said ratchet for holding the shaft against rotation in one direction, an integral extension formed upon said body and engaging said pawl for normally holding 70 the same in engagement with the ratchet, said body provided with an outlet opening formed therein, and means cooperating with said opening and adapted to normally close the same.

6. A non-refillable bottle of the class described comprising a body, said body provided with a neck, a threaded shaft positioned within said body and neck and having one end journaled in said neck, a ratchet 80 formed upon said shaft near the upper end thereof, and positioned within said neck, means carried by said neck and adapted to engage said ratchet for preventing the rotation of said threaded member in one direction, a follower positioned upon said threaded member, said body provided with an outlet opening, and means adapted to normally close said outlet opening for preventing the flow of liquid therethrough. 90

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

ERNEST B. BARNER.

Witnesses:

KATHRYN M. WHITAKER,
C. W. CORBY.