

938,703.

M. RAYMOND.
NON-REFILLABLE BOTTLE.
APPLICATION FILED APR. 26, 1909.

Patented Nov. 2, 1909.

Fig. 1.

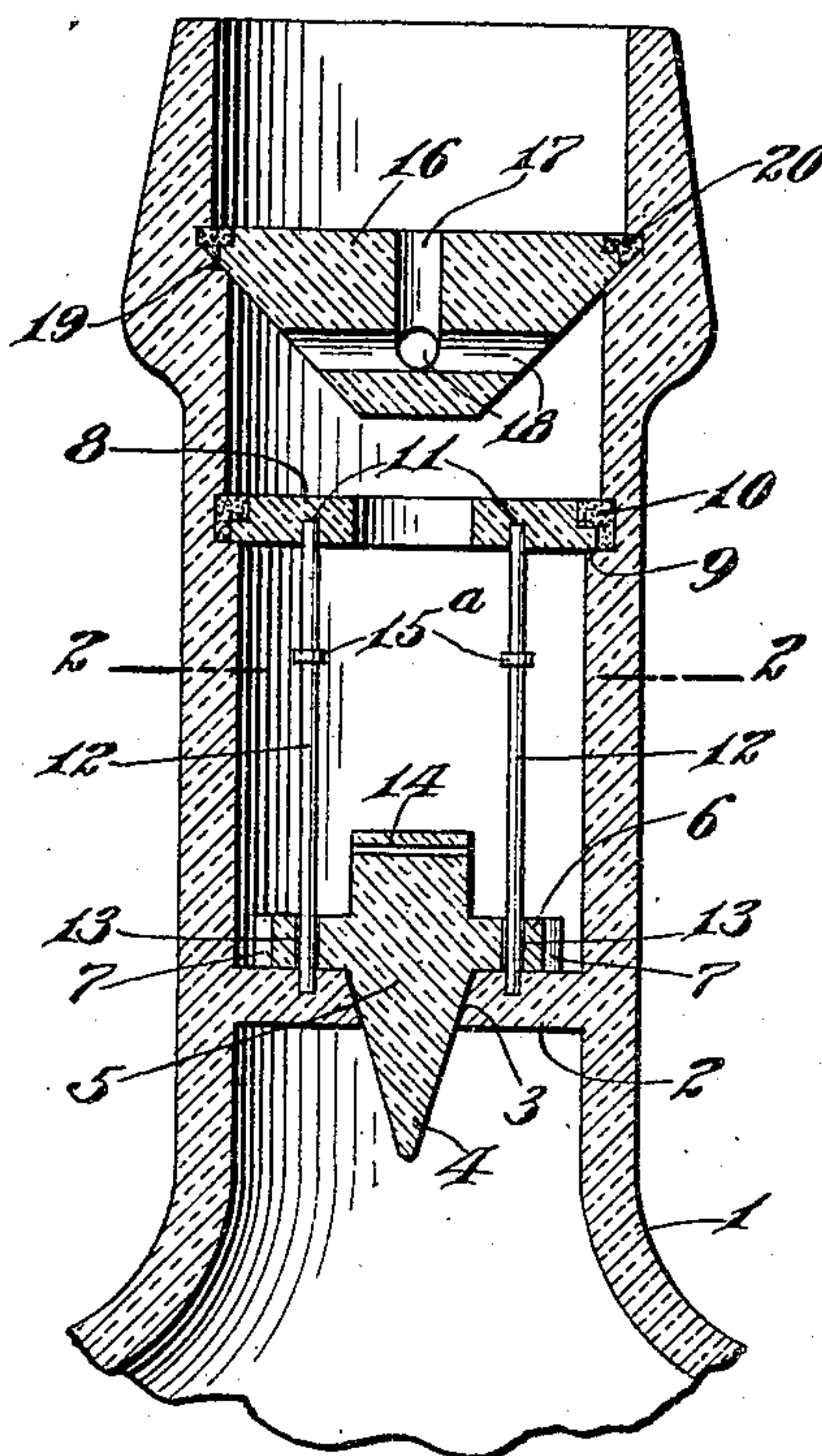


Fig. 2.

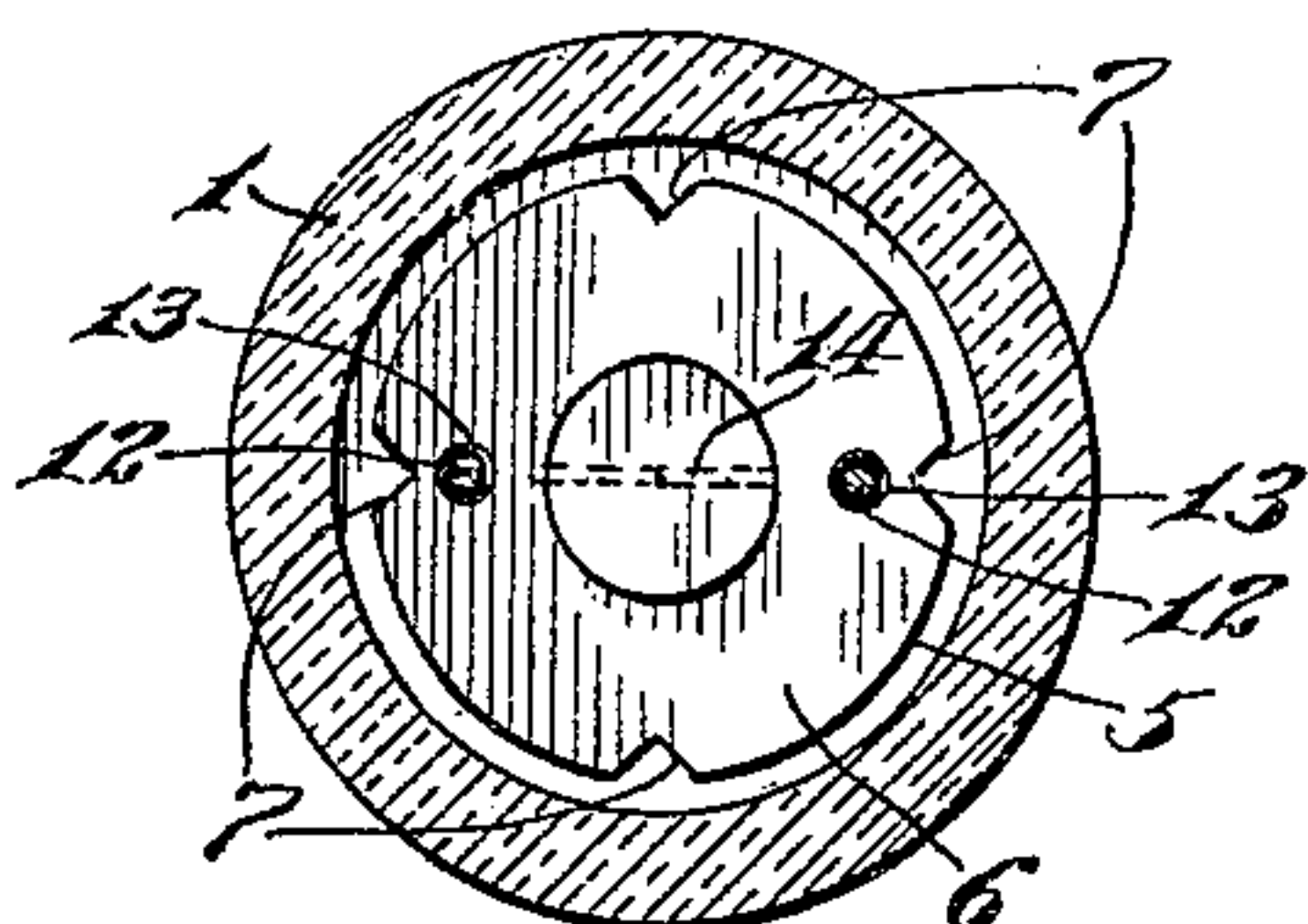
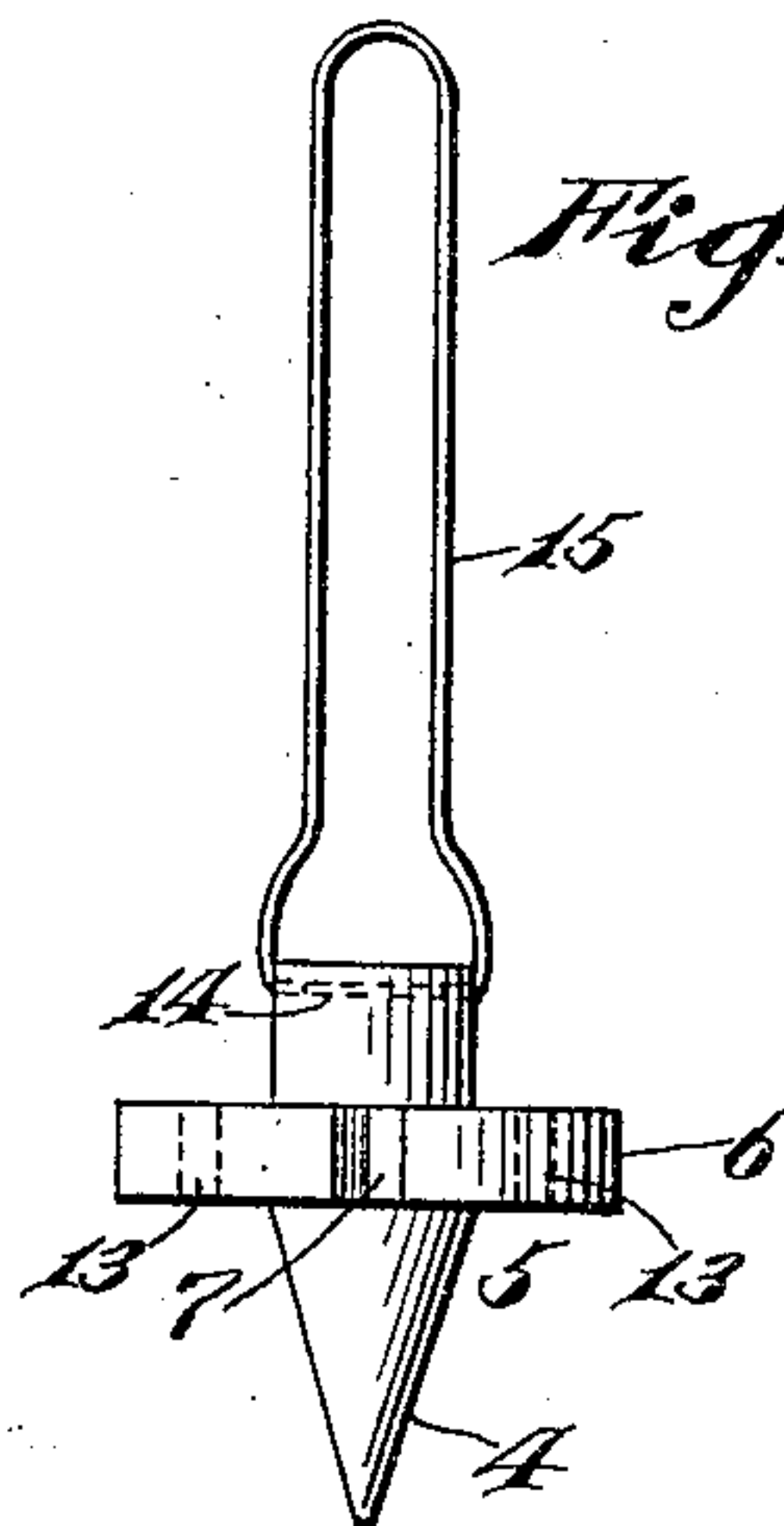


Fig. 3.



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UNITED STATES PATENT OFFICE.

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NON-REFILLABLE BOTTLE.

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Specification of Letters Patent.

Patented Nov. 2, 1909.

Application filed April 26, 1909. Serial No. 492,407.

To all whom it may concern:

Be it known that I, MAGGIE RAYMOND, a citizen of the United States, residing at Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented certain new and useful Improvements in Non-Refillable Bottles, of which the following is a specification.

My invention relates to an improved non refillable bottle, the object of the invention being to provide a bottle of this kind which may be readily filled, but when once filled, the contents can be readily poured from the bottle, but the bottle cannot be re-filled without destroying or injuring the bottle.

With these and other objects in view, the invention consists in certain novel features of construction, and combinations and arrangements of parts as will be more fully hereinafter described and pointed out in the claim.

In the accompanying drawings, Figure 1, is a view in longitudinal section illustrating my improvements. Fig. 2, is a view in section on the line 2—2 of Fig. 1, and Fig. 3, is a detail view in elevation of the valve and its attached wire before the wire is cut.

1 represents a bottle neck, having an internal integral flange 2, providing a central conical opening 3 to receive conical end 4 of my improved valve 5. The valve 5 is provided with an annular flange 6, adapted to rest upon flange 2, and this flange 6 is of appreciably less diameter, than the internal diameter of the bottle neck, so as to permit free flow of liquid around the valve.

This flange is notched as shown at 7, to provide a larger water passage around the valve.

8 represents a ring, which is set upon an internal shoulder 9 in the bottle neck, and this ring and the bottle neck are provided with registering recesses to receive cement 10 to effectually lock the ring within the neck of the bottle. This ring and the flange are provided with recesses to receive and support parallel rods 12, which latter project through openings 13 in the flange 6 of valve 5, so as to guide the valve in its movement in the bottle neck. The valve is provided with a transverse opening 14, in which

a wire 15 is mounted, and this wire is preferably bent as shown in Fig. 3, forming a loop, both ends of the wire being positioned in the opening 14. In assembling the parts, the wire will project up through the ring 8, and the operator can draw the valve 5 off its seat, and allow the bottle to be filled. The operator then cuts the wire and withdraws the two halves from the valve, and allows the valve to fall.

In the upper portion of the bottle neck, I secure a conical disk 16, which is provided with a vertical duct 17 communicating with radial ducts 18, so as to compel the liquid in escaping from the bottle to follow circuitous paths through the ducts, and this disk also prevents the entrance of any instrument to tamper with the valve. This disk 16 is supported upon shoulders 19 in the bottle neck, and this disk and the bottle neck are made with registering openings to receive cement 20 to securely lock the disk in the bottle neck.

It will be seen when the bottle is tipped or inverted, valve 5, will move along the rods, such movement being limited by the stops 15^a, and allow the liquid to freely escape. When the bottle is placed in normal position, the valve 5 will close the opening 3 and prevent any return of liquid to the bottle.

Various slight changes might be made in the general form and arrangement of parts described without departing from my invention, and hence I do not restrict myself to the precise details set forth, but consider myself at liberty to make such changes and alterations as fairly fall within the spirit and scope of the claim:

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

In a device of the character described, the combination with a bottle neck, having an internal flange, a ring in said neck above the flange, means locking said ring in the neck, and an opening in said ring located in alinement with the opening formed by the internal flange, two parallel rods connecting the ring and the flange at the opposite sides of the openings of the ring and flange, a valve adapted to seat in the opening formed

by the flange, an annular flange around said valve, having openings to receive said rods, and permit the valve to move on the rods, and shoulders on said rods spaced from the ring, and of a diameter larger than the diameter of the openings in the flange of the valve to limit the movement of the valve in one direction.

In testimony whereof I have signed my name to this specification in the presence of 10 two subscribing witnesses.

MAGGIE RAYMOND.

Witnesses:

JOHN RAYMOND,
FRANK J. ROBERTS.