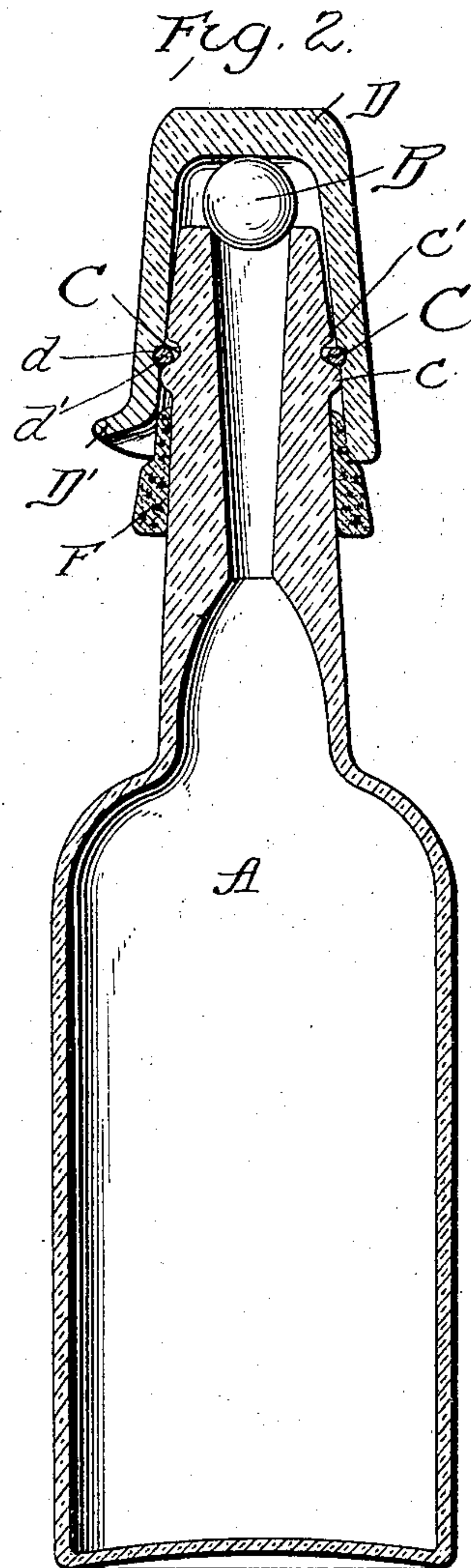


No. 764,905.

PATENTED JULY 12, 1904.

G. TUMAN.
NON-REFILLABLE BOTTLE.
APPLICATION FILED OCT. 7, 1903.

NO MODEL.



Attest:
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UNITED STATES PATENT OFFICE.

GEORGE TUMAN, OF HONESDALE, PENNSYLVANIA.

NON-REFILLABLE BOTTLE.

SPECIFICATION forming part of Letters Patent No. 764,905, dated July 12, 1904.

Application filed October 7, 1903. Serial No. 176,111. (No model.)

To all whom it may concern:

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

My invention relates to non-refillable bottles; and the object of the invention is to prevent the refilling of bottles after their contents have been removed.

The invention consists of the arrangement, combination, and construction of parts hereinafter described, and particularly pointed out in the claims.

In the accompanying drawings, Figure 1 is a side elevation, and Fig. 2 a section, of the bottle.

In the drawings, A is the bottle, having an annular recess C formed in its neck. An annular rib *c* projects from the bottle-neck below said recess, and a similar rib *c'* projects from the bottle-neck above said recess. The neck portion from this latter rib tapers gradually to the mouth of the bottle. The mouth is formed so as to afford a seat for a glass ball B, which is adapted to rest in said mouth so as to close the same normally.

An inverted-cup-shaped portion D is placed over the mouth of the bottle so as to allow the ball B a certain amount of movement, but to prevent access to the same. This portion has an annular groove *d*, into which is placed an annular ring of wire or the like *d'*, embedded or rigidly secured in place therein. This wire ring is adapted to engage with the recess C in the bottle-neck, so as to hold the cup portion D in place permanently.

The recess in the bottle-neck is made comparatively large in relation to the wire ring, so as to allow the cup portion a certain amount of play.

A lip or spout D' is formed in the lower end of the cup portion, so as to facilitate the pouring out of the contents.

A stopper F, made of cork or like material, is hollowed out so as to fit over the neck of the bottle before the parts are assembled, and this stopper is adapted to fit between the lower end of the cup portion and the neck of the

bottle to prevent the escape of any of the contents should the bottle be placed in any other than an upright position.

The interior of the neck portion is contracted midway of its length, and from this contracted portion the neck tapers outwardly to the mouth.

It will be understood that in this class of devices the bottles must be filled before the cup or stopper is applied, and the operation of my device is as follows: The bottle having been filled with the desired contents, the cork on stopper F is slipped over the neck of the bottle, the valve B is placed in position, and the cup D secured in place by means of the split ring *d*. Then the cork is pressed up to close the opening between the mouth of the cup and the bottle-neck. When it is desired to discharge the contents of the bottle, the cork is pushed down, so as to open the mouth of the cup, and then the bottle tilted, whereby the cup will slip back by gravity, allowing the valve to leave the bottle-mouth by gravity and by the pressure of the contents of the bottle thereagainst, and the liquid will flow from the mouth of the bottle into the cup, around the split ring, and out of the spout D'. As soon as the bottle is held vertical the valve drops back and closes the mouth. Thus the bottle cannot be refilled, for the reason that it cannot be held in a position in which fluids can be poured into it without the valve being seated so as to close the mouth.

I claim as my invention—

1. In combination, a bottle, a cup portion imperforate throughout fitting over the neck portion of the same, and a valve between the mouth of said bottle and the cup, substantially as described.

2. In combination, a bottle, a cup portion imperforate throughout fitting over the neck portion of the same, means for securing said cup portion to the bottle-neck and a valve between said cup portion and the bottle-mouth, substantially as described.

3. In combination, a bottle, a cup portion imperforate throughout fitting over the neck portion of the same, a valve between said cup portion and the bottle-mouth and means for

closing the mouth of the cup portion, substantially as described.

4. In combination, a bottle having a recess in its neck, a cup portion imperforate throughout fitting over said recess also having a recess therein, a wire ring in said recess adapted to fit within the recess in the bottle-neck and a ball seated in the bottle-mouth between the

mouth and the cup portion, substantially as described. 10

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

GEORGE TUMAN.

Witnesses:

CHAS. A. McCARTY,
W. J. REIF.