

A. S. BERNASINSKI.
NON-REFILLABLE BOTTLE.
APPLICATION FILED JULY 23, 1912.

1,044,854.

Patented Nov. 19, 1912.

Fig. 1.

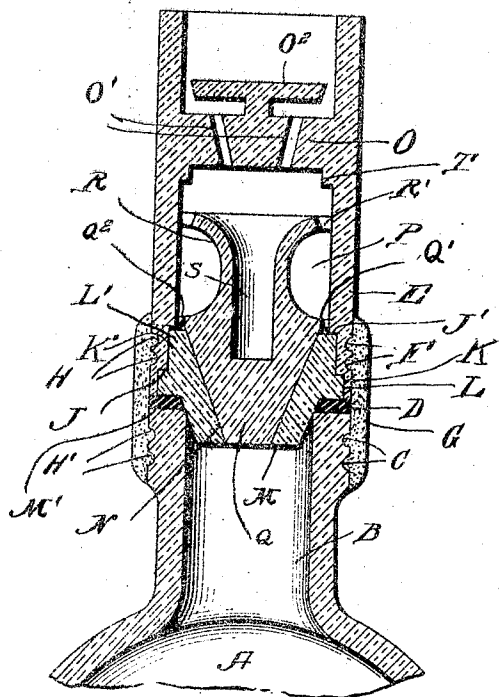


Fig. 2.

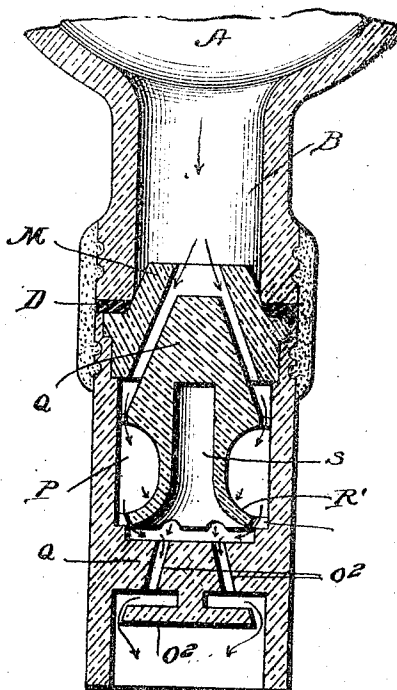
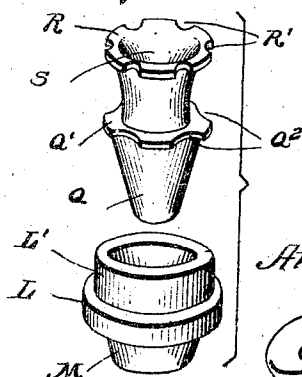


Fig. 3.



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ANTHONY S. BERNASINSKI, OF PERTH AMBOY, NEW JERSEY.

NON-REFILLABLE BOTTLE.

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To all whom it may concern:

Be it known that I, ANTHONY S. BERNASINSKI, a citizen of the United States, residing at Perth Amboy, in the county of Middlesex and State of New Jersey, have invented certain new and useful Improvements in Non-Refillable Bottles, of which the following is a specification.

My invention relates to improvements in non-refillable bottles, and one object of the invention is the provision of means which will not materially increase the cost of the bottle, but will absolutely prevent the refilling of the bottle after the contents have been discharged.

Another object of my invention is the provision of means which may be used in connection with the bottle at the time of its manufacture, or which may be applied to bottles in general use, and which will prove thoroughly reliable and efficient for the purpose intended and thus insure the production of a practical article in this line of invention.

To attain the desired objects, my invention consists of a non-refillable bottle embodying novel features of construction and combination of parts, substantially as disclosed herein.

In order that the detailed construction and the operation of my invention may be fully understood, as well as its many advantages be appreciated, I invite attention to the accompanying drawings, showing a bottle constructed in accordance with and embodying my invention.

Figure 1 represents a vertical central sectional view of my improvements in closed or normal position. Fig. 2 represents a similar view with the parts in the position they assume when the bottle is tilted or inverted in the act of discharging or pouring the contents, and Fig. 3 represents a perspective view of the valve or stopper and the ring which carries the valve seat.

In the drawings:—the letter A designates a portion of the body of the bottle formed with the neck B and in this instance provided with the series of exterior annular grooves or channels C, and upon the neck around its mouth rests the packing or gasket D, upon which is seated the sleeve E, which near its base is also provided with a series of exterior annular grooves or channels F, and surrounding the sleeve and neck of the bottle is the connecting band G, which

is formed with the series of ribs or corrugations H which enter the annular grooves or channels of the sleeve and with the series of ribs or corrugations H' which fit in the grooves or channels of the neck of the bottle, thus securely connecting the sleeve and neck and by means of the packing providing a water-tight joint between the neck and sleeve.

The sleeve is provided with the interior annular shoulders J and J', which form the annular recesses K and K' which receive the annular flange L and the vertical wall L' of the ring M, which is formed with a tapered opening providing a valve seat N, and from this construction it will be observed that the ring carrying the valve seat is securely retained within the sleeve and has the under wall M' of its annular flange resting snugly upon the packing or gasket. The sleeve is further provided with the horizontal wall O, having the outlet openings O', which are covered by the integral cap or crown piece O², spaced slightly above and protecting the outlet openings against the entrance of dirt or foreign matter.

From this construction it will be observed that the sleeve surmounts the neck of the bottle and has in its lower portion the ring carrying the conical or tapered valve seat and that the ring communicates with the chamber P of the sleeve, and fitting in the conical valve seat is the tapered or conical valve Q, which is provided with the base flange Q', provided with a series of outlets Q², and the valve is further provided with the upper flaring portion providing the flange R which is provided with a series of outlets R', and from this construction it will be observed that the valve has a vertical movement within the chamber of the sleeve and that as shown in Fig. 2, the liquid passes through the valve seat and through the outlet openings of the valve and is discharged through the outlets in the wall of the sleeve, and the valve is provided with a hollow portion or cup S and is limited in its movement in the sleeve by reason of the lugs or annular shoulder T, formed on the sleeve.

It will be observed that when the parts of my improvement are in normal position, as shown in Fig. 1, the valve completely closes the entrance to the bottle, and it is positively impossible to re-fill the bottle, but when necessary to discharge the contents, as

shown in Fig. 2, the valve uncovers the seat and as shown by the direction of the arrows, permits the liquid to be discharged in a proper manner.

5 It will be understood that my improvements may be applied to bottles of ordinary construction at a very slight cost, as the sleeve may be cemented to the bottle neck by the employment of a cemented band, or
10 the improvements may be applied to the bottle at the time of its manufacture, and in either event the construction of my invention is so simple, inexpensive, and practical as to meet every requirement of an article
15 of this character.

I claim:—

1. In a non-refillable bottle, in combination with a bottle neck, a sleeve thereon, a valve seat mounted in the neck and sleeve, a
20 band connecting the sleeve and neck, and a valve seated in the valve seat and consisting of a single piece of material formed with a

conical lower portion formed with a flange having discharge openings, and a cylindrical portion formed with a flange having a series
25 of discharge openings registering with the openings of the other flange.

2. In a non-refillable bottle, the combination with a bottle neck, of a sleeve therein, a band connecting the sleeve and neck, a valve
30 seat comprising a ring having an annular flange and a vertical wall, and a valve seated in said seat and comprising a conical lower portion to fit in the vertical wall of the ring, a flange thereon having discharge openings,
35 and a cylindrical portion formed with a flange having discharge openings registering with the openings of the lower flange.

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

ANTHONY S. BERNASINSKI.

Witnesses:

WALTER VERNECHI,
JOHN LABECKI.