

No. 678,203.

Patented July 9, 1901.

C. P. SEARLES & D. J. MINTON.
BOTTLE.

(No Model.)

(Application filed Mar. 23, 1901.)

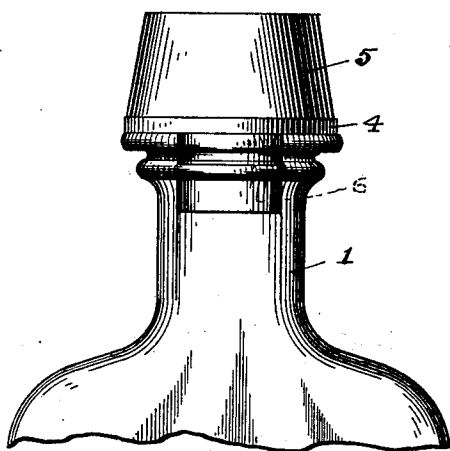


Fig. 1.

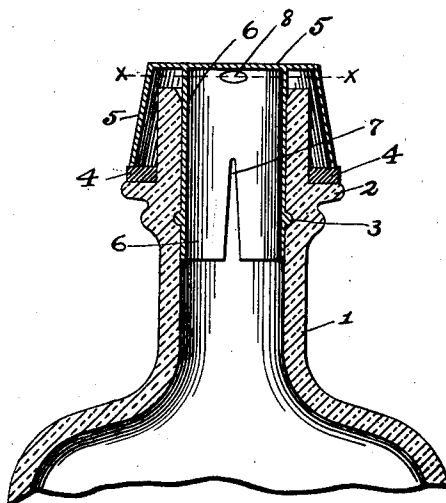


Fig. 2.

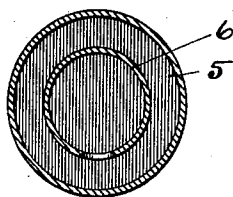


Fig. 3.

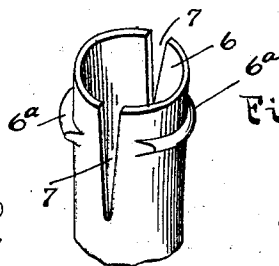


Fig. 4.

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CHARLES P. SEARLES AND DANIEL J. MINTON, OF COLUMBUS, OHIO; SAID
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BOTTLE.

SPECIFICATION forming part of Letters Patent No. 678,203, dated July 9, 1901.

Application filed March 23, 1901. Serial No. 52,621. (No model.)

To all whom it may concern:

Be it known that we, CHARLES P. SEARLES and DANIEL J. MINTON, citizens of the United States, residing at Columbus, in the county of Franklin and State of Ohio, have invented a certain new and useful Improvement in Bottles, of which the following is a specification.

Our invention relates to the improvement of bottles, and has particular relation to the improvement of what are known as "non-refillable" bottles.

The objects of our invention are to provide an improved bottle and attachment therefor whereby the refilling of the bottle without destroying or mutilating the cap therefor is prevented, to construct said improvement in a simple and inexpensive form, and produce certain improvements in details of construction and arrangement of parts which will be more fully pointed out hereinafter. These objects we accomplish in the manner illustrated in the accompanying drawings, in which—

Figure 1 is a view in elevation of the upper portion of a bottle having our improvement. Fig. 2 is a central vertical section of the same. Fig. 3 is a transverse section on line *xx* of Fig. 2, and Fig. 4 is a detail view in perspective of a portion of the tubular cap-stem which we employ in the manner hereinafter described.

Similar numerals refer to similar parts throughout the several views.

In carrying out our invention we form the bottle-neck 1 with which said invention is to be used with an external or peripheral shoulder 2, and at a point preferably below this shoulder and on the inner side of the neck is formed a continuous recess 3.

4 represents a ring or washer, preferably of cork, although the same may be produced of rubber or other destructible material. This washer or ring 4 is adapted to fit neatly about the upper portion of the bottle-neck and bear upon the bottle-neck shoulder 2 in the manner more clearly indicated in Fig. 2 of the drawings.

5 represents a cap-body, which is preferably constructed of metal, this cap-body having formed with the central portion of its under side a downwardly-extending tubular

stem or neck portion 6, the latter being of greater length than the body of the cap 5 and having its lower portion provided, as indicated more clearly in Fig. 4, with oppositely-located peripheral lugs or shoulders 6^a. The tubular cap extension 6 is preferably formed of spring metal and has its lower portion provided with two or more V-shaped cuts or slits 7 to permit of a desirable inward and outward spring action of the inner end portion of the tube. In its upper end portion and adjacent to the top of the cap 5 the tubular extension 6 is provided with one or more comparatively small openings 8, which provide a means of communication between said tubular portion and cap-body.

The cap-body formed as above described is adapted to be made to surround or inclose the upper portion of the bottle-neck 1, while its tubular extension 6 extends within the neck of the bottle, the lower or inner end portion thereof being temporarily sprung inward during the insertion of the tube until the laterally-projecting lugs or shoulders 6^a are in position to spring into or enter the internal recess 3 of the bottle-neck. The under side or lower edge of the cap-body 5, when said tubular portion 6 is properly inserted within the bottle-neck, bears firmly upon the cork ring 4. As indicated in the drawings, the cap 5 is of such height and circumference as to result in a desirable space being formed between the periphery of the upper portion of the bottle-neck and the side wall of the cap and between the upper end of said bottle-neck and the upper side of said cap.

Although the cap-body herein shown has substantially the form of a truncated cone, it is obvious that any desired contour may be imparted thereto or that the same may be suitably ornamented, if desired.

From the construction above described it will readily be understood that liquid contained in the bottle 1 cannot be poured therefrom until the cork ring 4 has been cut away or otherwise mutilated and removed. This being accomplished, however, it will be observed that the liquid will flow from the bottle-neck through the opening or openings 8 into the body of the cap 5 and permitted to escape at the base of the latter when the bot-

tle is tipped to a pouring position. Owing to the fact of the engagement of the lugs 6^a of the cap-tube 6 with the recess 3 of the bottle-neck said cap is locked firmly in connection with the bottle-neck and is thereby prevented from removal from the latter. This construction in connection with the depending walls of the cap-body prevents the pouring or introduction of liquid into the bottle when said cap is in position thereon, thus preventing bottles which have once been filled with a certain brand or grade of liquor or other liquid from being refilled or partially refilled by inferior liquid. If desired, the lower portion of the tubular cap extension 6 may be provided with a suitable internal spring to insure the forcing and retention of the lugs 6^a in engagement with the recess 3. Having now fully described our invention,

what we claim, and desire to secure by Letters Patent, is—

In a bottle, the combination with the bottle-neck 1 having an external shoulder 2 and internal recess 3, of a destructible washer 4 surrounding said bottle-neck and a cap loosely embracing the upper portion of the bottle-neck and bearing upon said washer, said cap having a central tubular extension having outer side lugs adapted to be sprung into engagement with said internal recess 3 and an opening or openings 8 between the upper end portion of said tubular extension and the cap-body, substantially as specified.

CHARLES P. SEARLES.

DANIEL J. MINTON.

In presence of—

C. C. SHEPHERD,

W. L. MORROW.