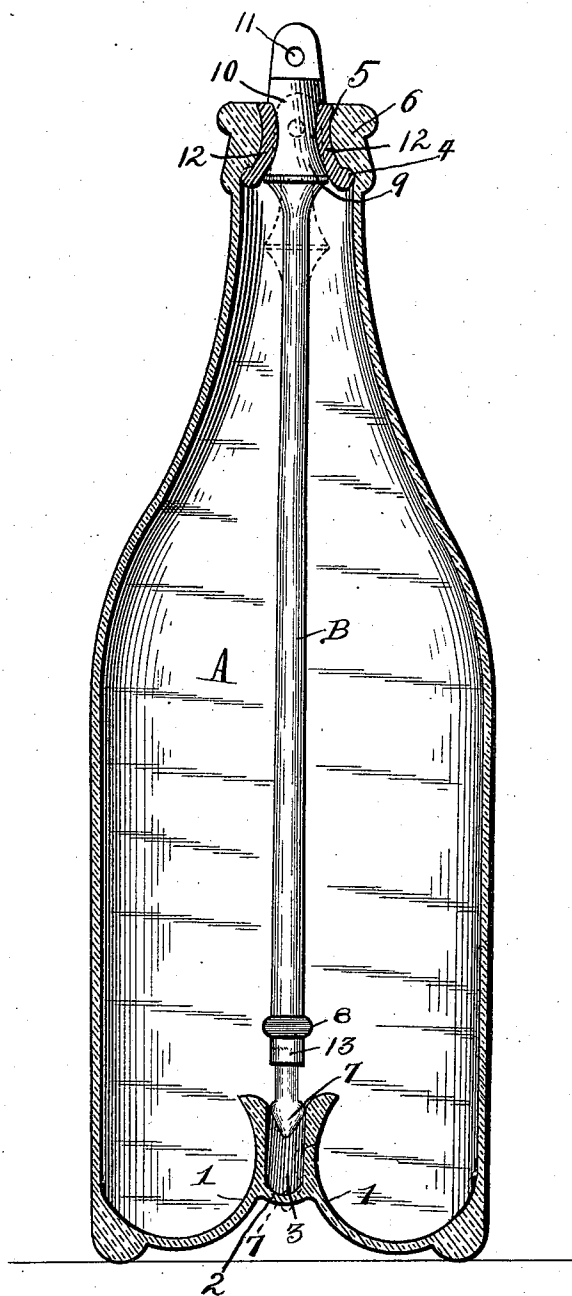


(No Model.)

E. CAMPBELL.
BOTTLE.

No. 576,805.

Patented Feb. 9, 1897.



Witnesses
Jos. Gregory
A. C. Hall

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UNITED STATES PATENT OFFICE.

EZRA CAMPBELL, OF DAYTON, WASHINGTON, ASSIGNOR OF ONE-FOURTH
TO GEORGE B. BAKER, OF SAME PLACE.

BOTTLE.

SPECIFICATION forming part of Letters Patent No. 576,805, dated February 9, 1897.

Application filed May 23, 1896. Serial No. 592,706. (No model.)

To all whom it may concern:

Be it known that I, EZRA CAMPBELL, a citizen of the United States, residing at Dayton, in the county of Columbia and State of Washington, have invented certain new and useful Improvements in Bottles; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to non-refillable bottles.

The object of my invention is to provide an improved bottle of the class described which will be adapted to more perfectly perform the office for which such bottles are intended.

A further object is to provide a bottle which, owing to its peculiar construction, cannot be refilled without immediate detection.

Having these objects in view, the invention consists of those novel features and combinations which will be more fully disclosed hereinafter.

The accompanying drawing illustrates the invention in sectional elevation, dotted lines representing the abnormal position of the opening-rod.

A designates a bottle whose base is curved upwardly, as at 1, forming a cylindrical pocket 3, having an easily-frangible web 2. The inner walls 5 of the head 6 of the bottle are curved and converge upwardly, being provided with a lower annular groove 4.

B designates a glass opening-rod having a conoidal-pointed lower end 7, adapted for movement in the cylindrical pocket 3 and being also provided with a bead 8. The upper portion of this rod flares outwardly, forming a head 9, which is provided with a top 10, having an eye 11 and adapted to receive the taps necessary in forcing the opening-rod downward.

A rubber gasket 12 encircles the head 9, and this gasket when in position in the bottle-head has its lower portion in the annular groove 4 and prevents the opening-rod from being pulled out of the bottle. This gasket is placed in the neck by a small instrument having spring-prongs. A second and small rubber or cork gasket 13 encircles the opening-rod immediately below the bead 8 and is of such

size as to be adapted to fit snugly in the cylindrical pocket 3 when the opening-rod has been forced downward, as shown in dotted lines.

The operation is as follows: After the bottle has been filled the opening-rod is placed therein and the gasket 12 inserted until it has been snugly forced into the bottle-head. A hook may now be inserted in the eye 11 and the opening-rod pulled upward to close the bottle. When in this position, the conoidal tip 7 lies in the upper portion of the cylindrical pocket 3.

When the bottle is to be uncorked, it is taken in the hand and the top 11 tapped against the under side of the table or bar. The opening-rod is thus forced downward and the conoidal tip or bulb 7 brought into contact with the frangible web 2, thereby breaking the same, but also tightly closing the cylindrical pocket 3 by virtue of the gasket 13 entering the same. The inward movement of the head 10 opens the neck of the bottle, so that the contents of the same may be readily poured out. The gasket 13 prevents the contents of the bottle from flowing out through the fractured web 2, but the bottle cannot be refilled and recorked, as immediately upon lifting the opening-rod the liquid will flow out through said fractured web.

Having thus described the invention, what is claimed as new is—

1. In a non-refillable bottle, the combination with the bottle having a frangible bottom, of a depressible opening-rod secured to the bottle-neck and adapted for fracturing said bottom, substantially as described.

2. In a non-refillable bottle, the combination with the bottle having a frangible bottom, of an opening-rod having its upper end secured in the bottle-neck and its lower portion projecting into the bottom in juxtaposition to the frangible bottom, whereby when said opening-rod is forced downward the bottom will be fractured, substantially as described.

3. In a non-refillable bottle, the combination with the bottle having a pocket in its bottom and a frangible web at the bottom of said pocket, of an opening-rod having its lower end located in said pocket and its upper end

secured in and corking the bottle-neck in such manner as to be capable of being forced downward, whereby said frangible web may be fractured, substantially as described.

- 5 4. In a non-refillable bottle, the combination with the bottle having its bottom provided with a pocket which has a frangible web, of an opening-rod having a lower point in said pocket and its upper end projecting
10 outward through the neck of the bottle, a gasket around the rod and above the lower pointed end thereof, said gasket being adapted

to close the pocket when the opening-rod is forced downward and a second gasket encircling the upper portion of the rod and closing the bottle-neck, substantially as described. 15

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

EZRA CAMPBELL.

Witnesses:

GEO. B. BAKER,
FANNIE DORR.