

K. LOVEJOY.
NON-REFILLABLE BOTTLE.
APPLICATION FILED SEPT. 30, 1911.

1,012,672.

Patented Dec. 26, 1911.

Fig. 1.

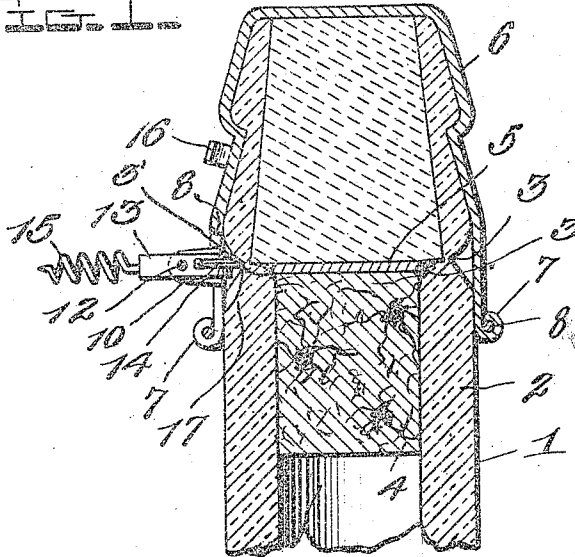
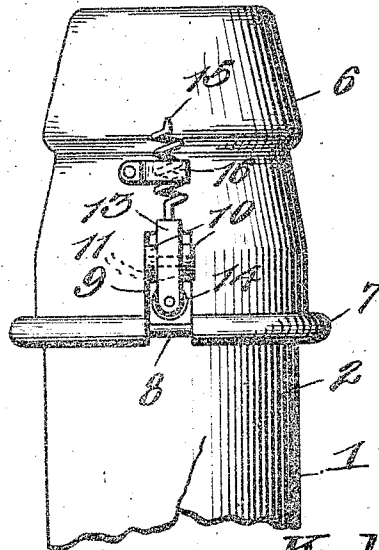


Fig. 2.



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NON-REFILLABLE BOTTLE.

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To all whom it may concern:

Be it known that I, KYLE LOVEJOY, a citizen of the United States, residing at Hurley, in the county of Grant and Territory of New Mexico, have invented certain new and useful Improvements in Non-Refillable Bottles, of which the following is a specification, reference being had to the accompanying drawings.

This invention relates to bottles and has for its object to provide a cap which is adapted to be retained upon the neck of the bottle, said cap being manipulated for removing the upper section of the neck so that access may be had to the contents of the bottle, and at the same time to modify the appearance of the bottle proper so that the purchasing public will be aware of the fact that the bottle has been emptied of its original contents.

A further object of the invention is to provide a cap for bottles, and combining therewith a glass cutter, which when operated will sever the upper portion of the neck so that the cork is exposed, the said cork being removed by a cork screw which forms a part of the glass cutter.

In the accompanying drawing Figure 1 is a vertical section through the cap and upper portion of the bottle; Fig. 2 is a side elevation of the cap, the cutter and cork screw being shown in its inoperative position.

Referring in detail to the drawing 1 designates the neck of a bottle, the upper end portion of which is gradually tapered or reduced in diameter to the mouth of the bottle neck. At the point of juncture of this reduced end of the neck with the body portion 2 thereof an exterior annular groove 3 is formed, the depth of which is sufficient to considerably weaken the neck at this point. The body portion 2 of the bottle neck is considerably thicker than the upper tapered end portion thereof and an interior half groove 3' is also formed at the reduced or weakened portion of the neck in transverse alinement with the exterior groove 3. The inner surface of the thicker body portion 2 of the bottle neck is disposed in longitudinal alinement with the inner edge of the neck at its mouth while the interior diameter of the neck at the groove 3' is considerably greater.

A cork or stopper 4 is forced through the upper smaller end of the bottle neck,

and as the cork is moved into and past the central portion of the neck wherein the groove 3 is formed, the air passes out of the neck around the cork so that the same may be readily forced downwardly into the reduced body portion 2 of the bottle neck. After the cork has been placed in its proper position a disk 5 of any suitable material is placed in the neck, and that space above the disk 5 is filled with plaster of paris or cement, whereby when the contents of the bottle are to be removed it is necessary that that portion of the neck of the bottle above the annular groove 3 be removed, so that access may be had to the cork 4. The disk 5 is for the purpose of preventing the filling of cement or plaster of paris from adhering to the upper surface of the cork 4.

To remove the upper section of the neck 2 of the bottle the cap 6 is provided, the same consisting of suitable metal which may be pressed to conform to the exterior formation of the neck. The lower edge of the cap 6 is formed with a bead 7, and in which is mounted a wire 8, said wire being adapted to aid in more rigidly connecting the cap to the bottle neck. The cap 6 is further provided with a slot 9. Formed adjacent each side of the slot 9 and in alinement are ears 10, said ears being provided with registered perforations 11 and through which is passed a pin 12. Pivotaly connected to the pin 12 is a lever 13, at the lower end of which is connected the glass cutting disk 14. To the upper end of the lever 13 is secured a cork screw 15, said cork screw being held in its inoperative position by a spring finger 16, which may be soldered or otherwise suitably secured to the cap 6. By providing the securing means for the cork screw 15 the lever and its connected part is also held in its inoperative position.

A longitudinal groove 17 is formed in the neck 2 of the bottle, the upper end of said groove opening into the annular groove 3, so that when the lever 13 is in the position as shown in Fig. 1, the cutting disk 14 has passed through the groove 17 and in binding contact with the annular groove 3; the lever 13 having assumed a horizontal position, and upon rotation of the cap 6 the upper portion of the neck will be severed or so weakened that it may be easily broken off upon slightly tapping the same. After this operation the cork 4 is

exposed, and it is only necessary that the cork screw 15 be entered therein and the cork pulled in the usual manner.

Having thus described the invention, I claim:—

1. The combination with a bottle, of a cap rotatably engaged over the neck of the bottle, a glass cutter movably mounted on said cap, and means carried by the cap to hold the glass cutter in an inoperative position, said cutter when in its operative position in engagement with the bottle neck extending laterally from the cap and forming a handle whereby said cap may be rotated.
2. The combination with a bottle neck having an annular groove formed therein, of a cap adapted to fit snugly upon said neck, a slot formed in the lower edge of said cap, a lever pivotally connected in said slot and having a cutting disk rotatably mounted in one end, a cork screw mounted at the other end, said lever being adapted to swing into a horizontal position so that the cutting disk carried thereby will engage in the annular groove of the bottle neck, whereupon rotary movement being imparted to said cap the cutting disk will sever or so weaken a portion of said neck that the same may be easily removed, and means for holding the lever and its connected parts in its inoperative position.
3. The combination with a bottle having a neck, of a cap adapted to fit snugly over and inclosing the said neck, an annular groove formed in said neck, a longitudinal groove also formed in the neck and opening into the annular groove, a slot formed in the lower edge of the cap, a lever pivotally connected in the slot, a cutting disk

rotatably mounted in one end of the lever, said disk being adapted to pass through the longitudinal groove to engage in the annular groove, whereby upon rotation of the cap that portion of the neck above said annular groove may be easily removed, and means carried by the cap to hold said lever and cutting disk in their inoperative position.

4. The combination with a bottle, of a cap rotatably engaged over the neck of the bottle, a cork screw pivotally mounted on the lower end of the cap, means for holding the cork screw in an inoperative position in close engagement with the cap, and a glass cutting disk carried by the cork screw to engage the bottle neck when the cork screw is laterally disposed with relation to the cap, said cork screw providing a handle whereby the cap may be rotated.

5. The combination with a bottle, of a cap rotatably engaged over the neck of the bottle, said bottle neck having an annular exterior groove and a longitudinal groove communicating therewith, a glass cutting disk mounted on the lower end of the cap for bodily movement through said longitudinal groove and into the annular groove of the bottle neck whereby the bottle neck is scored and weakened when the cap is rotated, and means on the cap for holding the cutting disk in its inoperative position.

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

KYLE LOVEJOY.

Witnesses:

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S. NEIL CALDWELL.