G. T. PARR.

BOTTLE CLOSURE.

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1,131,544.

Patented Mar. 9, 1915.

Fig. 1.

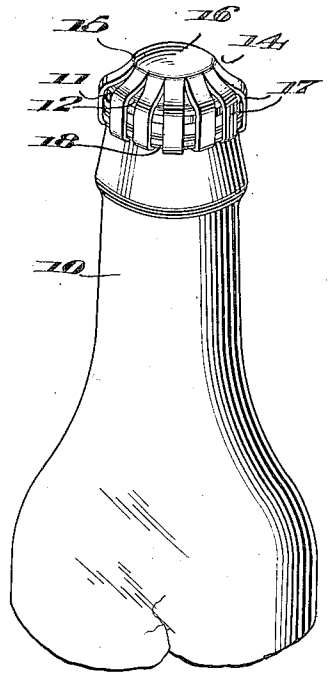
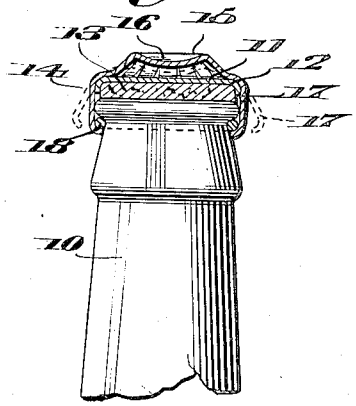



Fig. 2.




Witnesses

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# UNITED STATES PATENT OFFICE.

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## BOTTLE-CLOSURE.

1,131,544. Specification of Letters Patent. Patented Mar. 9, 1915.

Application filed December 2, 1913. Serial No. 804,285.

*To all whom it may concern:*

Be it known that I, GEORGE T. PARR, a citizen of the United States, residing at Minneapolis, in the county of Hennepin and State of Minnesota, have invented new and useful Improvements in Bottle-Closures, of which the following is a specification.

The invention relates to bottles and jars, and has for an object to provide a closure therefor.

The invention embodies, among other features, the provision of a closure particularly adapted for use on soda water bottles and the like, and in which use is made of a closure which can be readily applied to the bottle in the same manner that the caps of bottles are applied by the use of the ordinary cap affixing machines.

The invention further comprehends the provision of a closure which will hold the contents of the bottle in an air-tight condition and prevent accidental removal of the closure during shipment, but wherein the closure can be readily removed without the use of any bottle openers or tools, it being simply necessary to apply a downward pressure to the medial portion of the closure in order to entirely remove the same from its closed position on the bottle.

In the further disclosure of the invention reference is to be had to the accompanying drawings, constituting a part of this specification, in which similar characters of reference denote corresponding parts in all the views, and in which:

Figure 1 is a fragmentary perspective view of a bottle, showing my closure applied thereto; and Fig. 2 is a vertical sectional view, the dotted lines indicating the removed position of the gripping members.

Referring more particularly to the views, I disclose a bottle 10 adapted to be closed by a closure 11 consisting of a cap 12, preferably formed of metal and adapted to carry a disk 13 of cork or the like, with the edges of the cap 12 pressed downwardly around the disk in order to rigidly hold the disk on the cap. The cap 12 lies within a clamping member 14 consisting of a body 15, preferably of spring-like metal, having a central depression 16 and from which a series of gripping members 17 radiate and at their free ends are turned inwardly, as shown.

A locking ring 18 encircles the bottle 10 as shown, and in the use of my device, after the bottle has been filled with the desired fluid, the clamping member 14 carrying the cap 12 therein is placed upon the upper end of the bottle and a pressure applied thereto, thus forcing the gripping members 17 outwardly and over the locking ring 18 so that when the pressure is released the inwardly turned ends of the gripping members will lie beneath the locking ring and engage the same, thus holding the clamping member rigidly in position on the bottle and rigidly clamping the cap 12 in position to close the bottle. Now when it is desired to open the bottle, it is only necessary to place the thumb or the palm of the hand upon the part of the clamping member 14 having the depression 16 therein and the resultant downward pressure will cause the free ends of the gripping member 17 to spring outwardly and away from the locking ring, thus permitting the removal of the clamping member and cap carried thereby.

From the foregoing description it will be apparent that my device is of a simple and durable construction, can be cheaply manufactured and can be readily applied to bottles in the same manner as the ordinary cap is now applied by means of the usual capping machines. It will be particularly noted that there is no need of employing any tools in connection with the removal of my closure from a bottle and that the only way in which the closure can be removed from the bottle is by a vertical pressure against the central or depressed portion of the clamping member.

A bottle fitted with a cap such as I have described can be readily shipped from one place to another without any danger of accidental displacement of the closure, and, if desirable, the closure described can be used over again and also applied to bottles in which the upper ends of the necks are of slightly different sizes or shapes.

Having thus described my invention, I claim:

In a bottle closure, the combination with a locking ring encircling the neck of the bottle adjacent the mouth thereof, of a clamping member consisting of a metallic body having a central depressed portion, and a series of radially extending gripping members bent to pass around the open end of

the bottle and have their free ends grip the under side of the locking ring whereby to hold the clamping member rigidly on the bottle, a cap lying between the clamping member and the opening to the bottle and encircled by the clamping member, and a disk closing the opening to the bottle and interposed between the opening and the cap, with the disk encircled by the cap and having the cap lying flat against its upper face.

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

GEORGE T. PARR.

Witnesses:
JAMES TRACY,
D. O'NEIL.