(No Model.)

C. J. MALONE.

BOTTLE STOPPER.

No. 590,791. Patented Sept. 28, 1897.

Fig. 1.

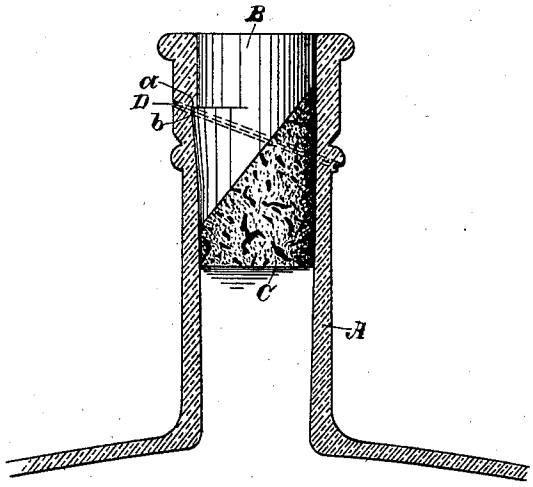
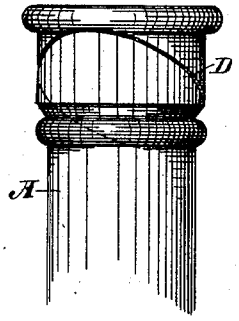


Fig. 2.



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UNITED STATES PATENT OFFICE.

CHARLES JOSEPH MALONE, OF SACRAMENTO, CALIFORNIA.

BOTTLE-STOPPER.

SPECIFICATION forming part of Letters Patent No. 590,791, dated September 28, 1897.

Application filed May 17, 1897. Serial No. 636,874. (No model.)

To all whom it may concern:

Be it known that I, CHARLES JOSEPH MALONE, a citizen of the United States, residing at Sacramento, county of Sacramento, State of California, have invented an Improvement in Bottle-Stoppers; and I hereby declare the following to be a full, clear, and exact description of the same.

My invention relates to a device for hermetically closing bottles for the purpose of preventing the surreptitious refilling of such bottles after they have been emptied.

It consists, essentially, in the employment of a peculiarly-shaped yielding stopper in conjunction with an exterior glass stopper, with corresponding faces fitting together and a means for locking the same in place, together with a frangible section of the bottle-neck for the purpose of removing the outer glass stopper and exposing the inner one to be removed in the ordinary manner.

It also consists in details of construction, which will be more fully explained by reference to the accompanying drawings, in which—

Figure 1 is a section showing the interior and the stoppers. Fig. 2 is an exterior view of the bottle-neck, showing the frangible line of fracture.

A is the neck of a bottle of any usual or suitable shape. The interior of this neck has a groove or channel with a shoulder or offset *a*, which is adapted to be engaged by a glass stopper B, having a shoulder *b* formed upon it, and adapted to engage the shouldered groove *a* in the bottle-neck.

In order to close the bottle after it has been filled, I employ a yielding cork or stopper C, which is cut with an inclined or beveled surface upon its upper or outer end. This is introduced into the bottle-neck, and the glass stopper, which has the inner end formed with a corresponding incline or bevel, is pushed into the bottle-neck after the cork has been introduced. The beveled ends overlapping and meeting each other will be sufficiently elastic to allow the shoulder *b* of the glass stopper to pass and engage the corresponding shoulder *a* of the bottle-neck and thus lock the stopper in place so that it cannot be removed. The outside of the bottle-neck has a diagonally-formed groove or channel D made around it. This extending sufficiently below the shoulder which locks the glass stopper in place will, when the bottle-neck is broken for the purpose of opening it, allow the glass stopper to be removed. The cork or inner stopper is then withdrawn by a corkscrew or any suitable means, and it acts as a wiper to clear away any particles of broken glass and prevent their getting into the contents of the bottle. The inner end of the neck is choked or made enough smaller than the main portion to prevent the cork from being forced into the bottle.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. A bottle having a neck formed with an interior shoulder which extends around one of its sides only, a yielding cork or stopper having the outer end beveled or inclined and adapted to fit into the neck of the bottle below the shoulder, an exterior glass stopper having the inner end beveled to fit the outer end of the yielding stopper and having a shoulder formed about one of its sides to engage the shoulder in the interior of the neck whereby the outer stopper is locked in place.

2. A bottle, the neck of which has an interior shoulder at one side, a yielding stopper adapted to fit the neck of the bottle below the shoulder having an inclined or beveled outer end, a rigid stopper having a shoulder projecting from one side and adapted to engage the shoulder within the bottle-neck and the inner end beveled to fit and coincide with the beveled end of the yielding stopper whereby the latter will yield to allow the shoulder of the rigid exterior stopper to pass and interlock with the shoulder of the bottle-neck.

3. A bottle having an interior locking-groove or shoulder extending only partially around it, a yielding and a rigid stopper adapted to be introduced successively into the bottle-neck, the two having beveled or inclined meeting faces, the rigid exterior stopper having a shoulder partially encircling one side and adapted to engage and lock with the corresponding shoulder of the bottle-neck, and a diagonal groove or channel made upon the exterior of the bottle-neck to provide a frangible line of breakage when the bottle is to be opened.

In witness whereof I have hereunto set my hand.

CHARLES JOSEPH MALONE.

Witnesses:
G. D. COX,
J. S. MCINNIS.