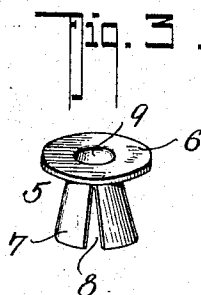
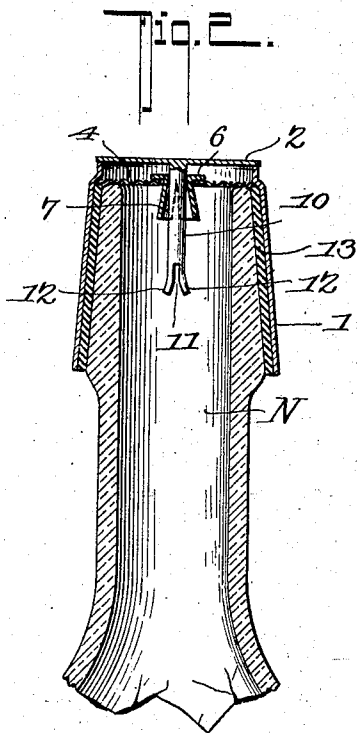
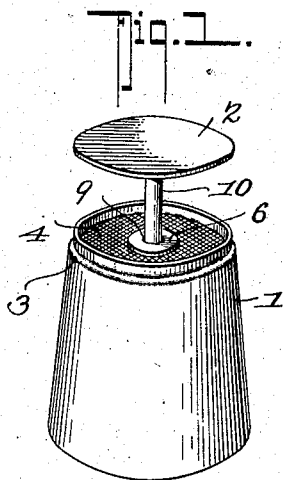


No. 815,837.

PATENTED MAR. 20, 1906.

C. H. JOHNSON.
BOTTLE CAP.
APPLICATION FILED MAY 6, 1905.



Witnesses:

R. M. Elliott
R. M. Elliott

Charles H. Johnson
Inventor,

by *C. A. Snow & Co.*
Attorneys.

UNITED STATES PATENT OFFICE.

CHARLES H. JOHNSON, OF BUFFALO, NEW YORK.

BOTTLE-CAP.

No. 815,837.

Specification of Letters Patent.

Patented March 20, 1906.

Application filed May 6, 1905. Serial No. 259,209.

To all whom it may concern:

Be it known that I, CHARLES H. JOHNSON, a citizen of the United States, residing at Buffalo, in the county of Erie and State of New York, have invented a new and useful Bottle-Cap, of which the following is a specification.

This invention relates to bottle-caps.

The object of the invention is to provide a novel form of cap which may readily be applied to a bottle and in the use of which intrusion of extraneous matter, such as dust or insects, will positively be prevented, while escape of liquid from the bottle will readily be permitted.

A further object is to provide a bottle-cap having a novel form of closure which will automatically unseat or open itself when the bottle is tilted for the purpose of pouring out the contained liquid and which will automatically seat or close itself when the bottle is brought again to a vertical position.

With the above and other objects in view, as will appear as the nature of the invention is better understood, the same consists in the novel construction and combination of parts of a bottle-cap, as will be hereinafter fully described and claimed.

In the accompanying drawings, forming a part of this specification, and in which like characters of reference indicate corresponding parts, Figure 1 is a view in perspective, exhibiting a bottle-cap constructed in accordance with the present invention. Fig. 2 is a view in vertical section through the neck of a bottle, showing the cap of the present invention combined therewith. Fig. 3 is a perspective detail view of a combined guide and stop employed in connection with the article to limit the movements of the closure.

The device embodies a collar or bottle-engaging element 1 and a closure or sealing element 2. The collar, as clearly shown in Fig. 2, is a cylindrical structure of truncated cone-shaped form, may be made of any suitable material, preferably of thin sheet metal, and has its upper or smaller portion reduced, as at 3, to form a seat, which is engaged by a screen or guard 4, made of reticulated or woven wire fabric inserted from the larger end of the collar and combined with the seat in any preferred manner, as by solder. The center of the screen or guard is perforated to receive a combined guide and stop 5, which comprises a disk 6 and a tubular extension 7, preferably integral therewith and cleft longitudinally,

as at 8, to permit the sections formed thereby to be slightly flexed to present a cone-shaped orifice. Working in the orifice 9 of the disk and the sleeve is a stem or shank 10, connected with the upper end of which is the closure 11, that is combined with the stem in any preferred manner and is of a size to close the upper end of the collar when seated thereon, as shown in Fig. 2. The lower or inner end of the stem or shank is bifurcated, as at 11, the two members formed thereby being outturned, as clearly shown in Fig. 2, to form abutments or stops 12, which by engagement with the inner walls of the guide or stop will serve to limit the outward movement of the closure and also to prevent any binding therein. The assemblage of the stem and the guide is to be such that the former will be free to slide in the latter, so that when the bottle is inverted for the purpose of pouring out the contained liquid the closure will automatically unseat itself and assume the position shown in Fig. 1, and upon the bottle being restored to its normal or vertical position the closure will automatically seat itself and rest upon the upper edge of the collar, as shown in Fig. 2, thereby effectually sealing ingress to the interior of the receptacle with which the device is used. The guide may be combined with the screen or guard in any preferred manner, preferably by having the disk portion 6 soldered thereto.

In using the cap in connection with the neck end N of a bottle the mouth portion will have applied to it a rubber thimble, 13, which will be of a size to engage closely the inner walls of the collar, as shown in Fig. 2, and thus hold the latter positively in position thereon, while at the same time permitting ready detachment therefrom.

The cap of the present invention is adapted for various uses, but more particularly in connection with bottles used at bars, wherein it frequently happens that insects, such as flies and the like, find their way to the bottle, owing to the fact that the attendant fails to close the neck or mouth thereof with a cork. With this device such a procedure is rendered unnecessary, as the bottle always remains effectually sealed when not in use, and, further, the time wasted in removing the cork and replacing it is thereby saved.

Having thus described the invention, what is claimed is—

1. A device of the class described, comprising

ing a collar, a screen combined therewith and carrying a guide, and a closure having a shank movable in the guide.

2. A device of the class described, comprising a collar, a screen combined therewith, a guide positioned centrally of the screen, and a closure having a shank movable in the guide.

3. A device of the class described, comprising a collar, a screen combined therewith, a combined guide and stop secured to the screen, and a closure having a shank movable in the guide and stop.

4. A device of the class described, comprising a collar provided near one end with a seat, a screen secured to the seat, a guide secured centrally to the screen, and a closure having a stem freely movable within the guide.

5. A device of the class described, comprising a collar, a screen secured near one end

thereof, a guide secured to the screen, and a closure having a shank loosely movable in the guide and provided with means for limiting its outward movement.

6. A device of the class described, comprising a collar, a screen combined therewith, a disk secured centrally of the screen and having an approximately cone-shaped extension, and a closure having a stem movable within the disk and provided with terminal abutments to limit the movement of the stem.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

CHARLES H. JOHNSON.

Witnesses:

JOHN J. O'BRIAN,
M. J. O'BRIAN.