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D. M. KIYOTA

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BOTTLE CAP

Filed Oct. 11, 1930

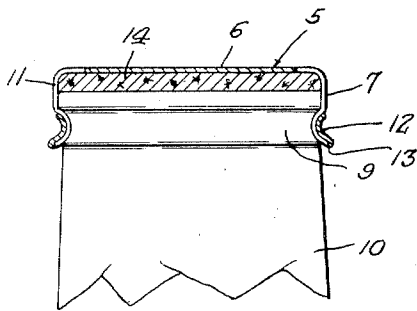


Fig. 2.

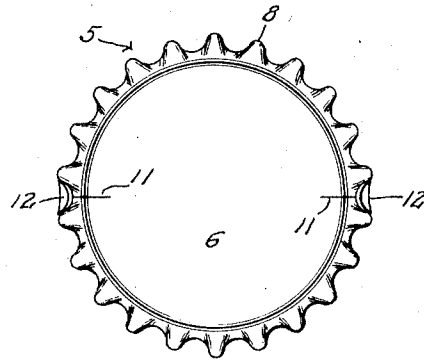


Fig. 1.

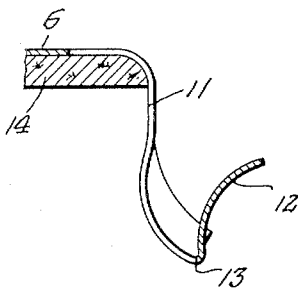


Fig. 3.

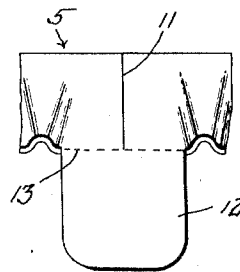


Fig. 4.

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## UNITED STATES PATENT OFFICE

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## BOTTLE CAP

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This invention relates to bottle caps and particularly crown caps.

An object of the invention is to provide a cap to be frictionally held on the neck of a bottle and which can be removed therefrom by flexing a tab on the flange of the cap.

Further objects of the invention are to provide a cap of the character referred to that forms an air tight closure for a bottle, that is very simply removed without the requirement of a bottle opener, that permits of mass production at reduced costs, and comparatively inexpensive to manufacture.

With the foregoing and other objects in view, the invention consists of a novel construction, combination and arrangement of parts as will be hereinafter more specifically described and illustrated in the accompanying drawings, wherein disclosed an embodiment of the invention, but it is to be understood that changes variations and modifications may be resorted to without departing from the spirit of the claim hereto appended.

In the drawings wherein like reference characters denote corresponding parts throughout the several views:—

Figure 1 is a top plan view of the cap in accordance with the present invention.

Fig. 2 is a fragmentary side elevation of a neck of the bottle carrying the cap in detailed vertical section applied thereto.

Fig. 3 is an enlarged fragmentary portion of the cap showing the tab being opened, and,

Fig. 4 is a fragmentary side elevation of the cap showing the tab extended.

In the drawings wherein for the purpose of illustration is shown the preferred embodiment of my invention, 5 indicates generally the body portion of the cap which consists of a relatively flat round crown 6 from which depends an annular flange 7 formed with a series of crimps 8 around the lower edge of the flange 7. These crimps 8 frictionally engage a semi-circular, recess 9 at the upper end of the neck 10 of a bottle.

On the diametrically opposite side of the crown 6 there are slots 11 in alinement with each other and these slots are located in the margins of the crown. The slots extend downwardly through the flange 7 and the crimps 8 and terminate on a line with the lower edge of the crimps 8. On the diametrically opposite sides of the flange 7 there are a pair of tabs 12, which when the tab is inserted on the neck of the bottle, are bent to the position shown in Fig. 2 of the drawings. Where the tabs 12 merge with the crimps 8 on the flange 7, there is a line of perforations or scorings 13 that intersects the lower edge of the slots 11 at right angles. The slot 11 is in the center of the line of perforation 13.

Thus it will be seen that when it is desired to open the bottle, the caps 12 are pulled outwardly from the position shown in Fig. 2 which will bend the tab across the line of perforation. Further movement from the position shown in Fig. 3 of the drawings will cause the break along the line of perforation and allow the parts of the tabs on the opposite sides of the slots 11 to spread apart whereupon the cap can be removed.

On the inside of the crown 6 of the body portion is a disk of cork 14 that bears against the upper edge of the neck 10 of the bottle to make an air-tight closure therefor.

It is thought that the present embodiment of the invention has been disclosed in considerable detail merely for the purpose of exemplification, since in actual practice it attains the features of invention enumerated as desirable and in the statement of the invention and the above description.

It is to be understood that by describing in detail herein any particular form, structure or arrangement it is not intended to limit the invention beyond the terms of the claim or the requirement of the prior art.

Having thus described my invention, what I claim as new is:—

A crown bottle cap comprising a crimped flange and a substantially concavo-convex bendable tongue formed integrally with the free end of the flange, said tongue being of less length than the flange and being normally bent thereagainst and nested in one of the crimps thereof, the tongue being weakened transversely at its point of juncture with the flange, said flange having a slit therein extending from the body portion of the cap to the point of juncture of the flange and the tongue.

In testimony whereof I affix my signature.  
DAVID MASAKI KIYOTA.

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