

L. WALTON.
CLOSURE FOR BOTTLES.
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979,233.

Patented Dec. 20, 1910.

Fig. 1.

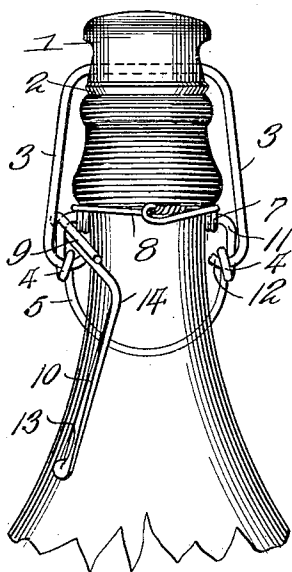
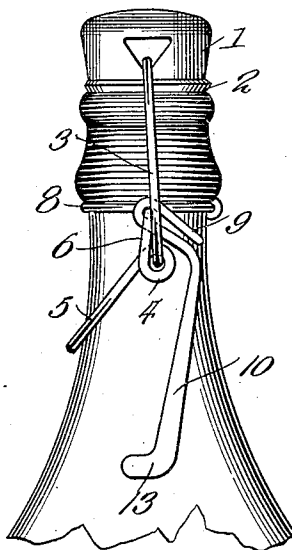


Fig. 2.



Witnesses

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LUTHER WALTON, OF NORRISTOWN, PENNSYLVANIA.

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To all whom it may concern:

Be it known that I, LUTHER WALTON, a citizen of the United States, residing at Norristown, in the county of Montgomery and State of Pennsylvania, have invented new and useful Improvements in Closures for Bottles, of which the following is a specification.

The invention relates to an improvement in closures for bottles and is particularly directed to an attachment for coöperation with the closure whereby the latter may be conveniently opened to provide access to the contents of the bottle.

The main object of the present invention is the provision of an attachment designed for use in connection with bottle closures of the type held seated under extreme pressure, the construction of the attachment providing for the operation of the parts to release the closure in a simple and expeditious manner.

The invention will be described in the following specification, reference being had particularly to the accompanying drawings, in which:—

Figure 1 is a broken elevation illustrating the application and construction of my improvement. Fig. 2 is a similar view taken at right angles to the position shown in Fig. 1.

Referring particularly to the accompanying drawings, my improved device is designed primarily for use with stoppers designed as closures for bottles adapted to contain carbonated beverages, and the form of such closure illustrated includes a closing plug 1 having a compressible sealing gasket 2 adapted for engagement with the mouth of the bottle. The plug 1 carries a yoke 3, the terminals of which depend alongside the neck of the bottle and are pivotally mounted in eyes 4 formed in an operating member including a loop 5 which extends from the eyes in one direction, the operating member being projected in the opposite direction above the loop to provide arms 6 which are pivotally supported in eyes 7 formed in a band 8 secured about the neck of the bottle immediately below the mouth bead. This form of closure is of the ordinarily accepted type, it being understood that the parts are so arranged that when the loop 5 of the operating member is turned down into engagement with the neck of the bottle, as shown in Fig. 2, the loop 4 of said member will

be carried in a relatively rearward direction slightly beyond the eyes 7 of the band 8, so that the pivotal support of the yoke 3 will be beyond the center of the pivotal support of the operating member. The yoke is thus drawn downward to firmly seat the gasket 2 in the bottle mouth and held in this position by the relative dispositions of the loop 4 and pivotal support of the operating member in the eyes 7. In the ordinary removal of the closure in bottles of this type it is necessary to exert pressure against the loops 4 so as to force the lower ends of the yoke 3 in advance of the pivotal support of the operating member, and as these parts, in order to maintain the contents of the bottle in proper condition, are held seated with the maximum pressure, it is obvious that the ordinary opening of the closure is a difficult matter.

The present invention is designed primarily to provide a simple attachment which may form a more or less permanent part of the operating parts of the closure and in the use of which the opening operation may be easily and quickly accomplished. The attachment is preferably constructed of a single length of wire of substantial thickness bent at one end to form an elongated loop 9, from which the material is projected laterally to form an operating handle 10. The loop is designed to loosely engage the laterally projecting portion 11 of the operating member immediately beyond the eyes 7 of the band 8, the lower portion of the loop, beyond its connection with the portion 11 of the operating member, being designed to rest in rear of the terminal 12 of the yoke disposed inwardly beyond the eye 4 of the operating member. The handle portion 10 of the attachment is preferably flattened to resist bending strain and has a laterally projected end 13, as shown. The handle portion 11 is preferably projected at an angle to the plane of the loop 9, as at 14, in order to permit the convenient use of the attachment in the ordinary flaring bottle neck.

In use pressure upon the handle end of the attachment will cause the loop portion thereof to engage the projection 12 of the stopper loop with the effect to move the same in the opening direction beyond alignment with the pivotal support of the operating member, thereby relieving the tension upon the parts and opening the stopper.

The attachment is designed to form a more or less permanent part of the stopper

or may be made as an independent member to be engaged in operative position when desired for use.

Having thus described the invention what
5 is claimed as new, is:—

The combination of a stopper including a sealing plug, a yoke connected to the plug, an operating member connected to the yoke and pivotally connected to the bottle, an attachment for operating the yoke including
10 a loop to loosely engage the operating member adjacent the pivotal connection and bear

against the yoke adjacent its pivotal connection with the operating member, and a handle projecting from the loop and normally pendent below the operating member, said handle being projected at approximately right angles to the loop. 15

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

LUTHER WALTON.

Witnesses:

HARRY DANIELS,
EPHRAIM F. SLOUGH.