H. F. SUIT.

BOTTLE CLOSURE.

APPLICATION FILED DEC. 10, 1912.

1,101,351. Patented June 23, 1914.

Fig. 1.

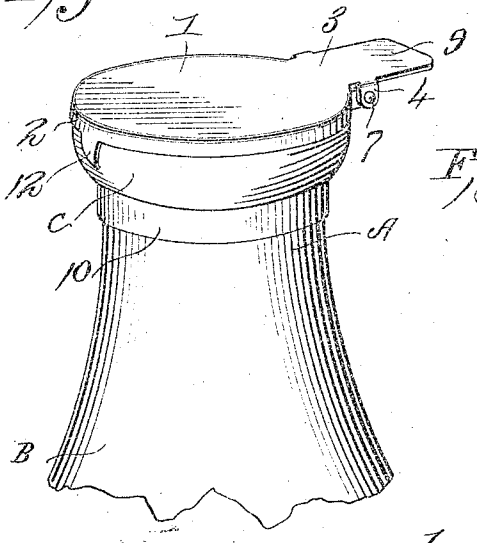



Fig. 2.

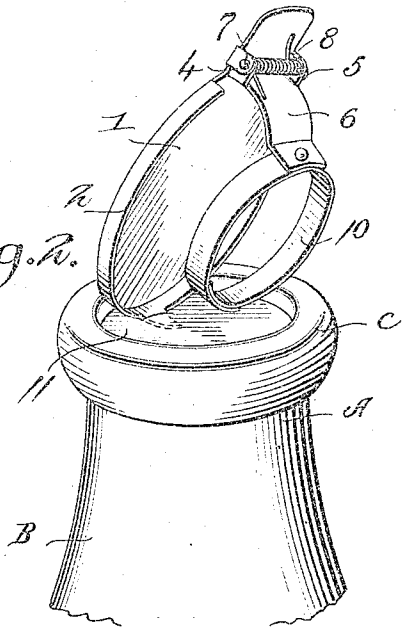



Fig. 3.

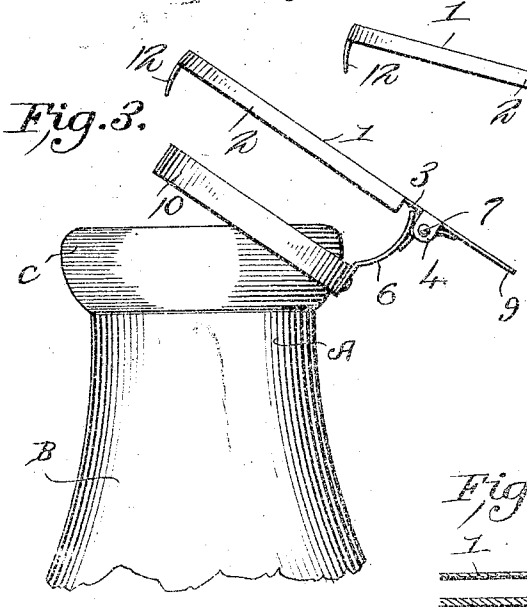



Fig. 4.

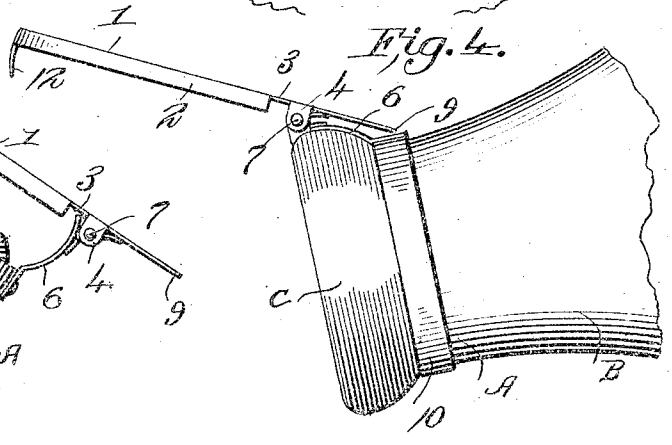
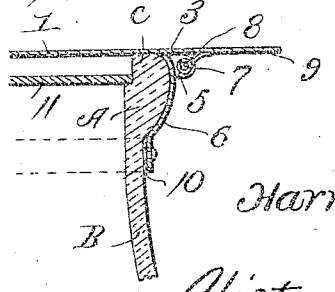



Fig. 5.




Witnesses

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# UNITED STATES PATENT OFFICE.

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## BOTTLE-CLOSURE.

1,101,351. Specification of Letters Patent. Patented June 23, 1914.

Application filed December 10, 1912. Serial No. 736,009.

*To all whom it may concern:*

Be it known that I, HARRY F. SUIT, a citizen of the United States, residing at Washington, in the District of Columbia, have invented new and useful Improvements in Bottle-Closures, of which the following is a specification.

This invention relates to bottle closures and particularly to closures for milk bottles; and it has for its primary object the provision of a closure wherein will be embodied a main closing cap having a manipulating portion which may be initially adjusted whereby to effect the removal of the ordinary closing wafer of the bottle and then adjusted to the neck of the bottle whereby to effectually close the same when the bottle is in use.

Another object of the invention is the provision of a closure which can be quickly removed from one bottle and connected with another as the occasion may demand.

A still further object of the invention is to provide a closure which may be adjusted by the same hand of the operator which is employed when canting the bottle to displace its contents.

Another object of the invention is to construct a closure with an attaching portion which when associated with the neck of the bottle will serve to hold the closure in its initial adjusted position upon the neck during the operation of moving the closing cap to different positions.

With these and other objects in view, the invention consists of certain novel features of construction, combination and arrangement of parts, as will be hereinafter described and claimed.

In the accompanying drawings Figure 1 is a perspective view of a bottle, showing the application of the closure thereto; Fig. 2 is a similar view, showing the closure associated with the ordinary sealing wafer of the bottle whereby to effect the removal of the wafer; Fig. 3 is a side view of a portion of a bottle, showing the manner of connecting the closure therewith; Fig. 4 is a side view, showing the bottle partly canted and illustrating an open adjustment of the closing cap; and Fig. 5 is a section taken vertically through the neck of the bottle and through a portion of the closure.

With a view to providing a closure which will accommodate itself to any standard size of milk bottle and which may be arranged thereon so as to form a desirable seal for the bottle when the initial sealing wafer is removed, I provide a metallic closing cap 1 having a peripheral flange 2, which is adapted to embrace the upper portion of the neck A of the bottle B herein shown. Said cap 1 is provided with a lateral extension 3 having depending ears 4 thereon which are associated with the sides of similar ears 5 which extend from a supporting bracket 6. A hinge pin 7 is extended through all of the ears and as illustrated said pin is embraced by a spring 8 which has one terminal engaged against the bracket 6 and another terminal engaged against the manipulating lip 9 of the extension 3, whereby under the office of the spring the cap 1 will be normally held over the neck of the bottle.

The supporting bracket 6 is secured in any suitable well known manner to one side of a split spring band 10, the latter being adapted to embrace the neck of the bottle beneath the uppermost bulge or bead C of the bottle, so as to hold the cap 1 against accidental derangement from the neck when the cap is adjusted to different positions. The supporting bracket 6 is curved upwardly thereon so as to lie in mutual contact with the outer curved surface of the bead C of the neck whereby to form a stop to prevent the downward movement of the device on the neck of the bottle when pressure is applied to the lip 9 to effect opened adjustments of the cap.

When adjusting the device to the neck of the bottle, the split band 10 is arranged at an angle to the neck whereby to extend against the edge thereof and to permit the pressure of the hands of the operator to be applied against the upper edges of the band with a resultant expansion of the adjacent sides of the band and with a final adjustment of the band to a point below the plane of the bead C as shown particularly in Figs. 2 and 5 of the drawing.

In order that the usual sealing wafer 11 of the bottle may be removed prior to the initial association of the hereinbefore described closure to the bottle, I provide the peripheral flange 2 with an extracting spur 12 of substantially triangular configuration. Said spur is curved around the external portion of the neck whereby to form a keeper to prevent the disk 1 from opening accidentally when the manipulating portion thereof is

brought into contact with objects when lifting the bottle from place to place. The fact that the spur 12 is of triangular configuration, it will be evident that the friction between the spur and the neck of the bottle will be minimized so that a slight pressure of the hand against the manipulating portion will be required to effect an opened adjustment of the disk 1. The cap 1 is first arranged at an angle to the wafer 11 and pressure is then applied to the cap so as to cause the spur 12 to enter the wafer 11. The disk 1 is then rocked so that diametrically opposite points of the disk will be brought into contact with adjacent surfaces of the bead C, the latter then acting as a fulcrum so that on further rocking movements of the disk 1, the wafer 12 will be positively removed from its seat in the bottle neck.

From the foregoing description, taken in connection with the accompanying drawings, the construction and operation of the invention will be readily understood without requiring a more extended explanation.

Various changes in the form, proportion and the minor details of construction may be resorted to without departing from the principle or sacrificing any of the advantages of this invention, as claimed.

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

A bottle closure comprising a split band adapted to embrace the entire circumference of the neck of the bottle, a bracket carried by and extending upwardly from said band, said bracket being secured so as to lie in contact with the neck of the bottle to hold the band against movement in one direction, a flat member having an integral manipulating lip and pivotally connected to the bracket, a spring engaging the bracket and lip to hold the flat member in closed position, an annular neck embracing flange formed on and depending from the said flat member, and an extracting prong formed integrally with and depending from the marginal flange.

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

HARRY F. SUIT.

Witnesses:
JAMES A. KOEHL,
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