

W. R. WARNER.
CLOSURE FOR BOTTLES.
APPLICATION FILED APR. 3, 1909.

936,062.

Patented Oct. 5, 1909.

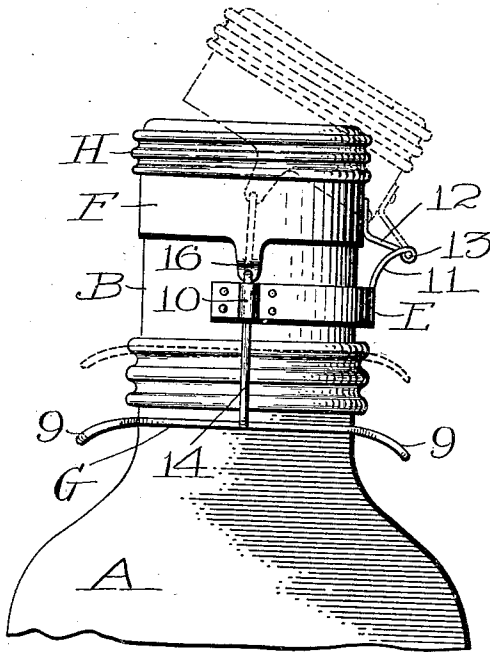


Fig. 1.

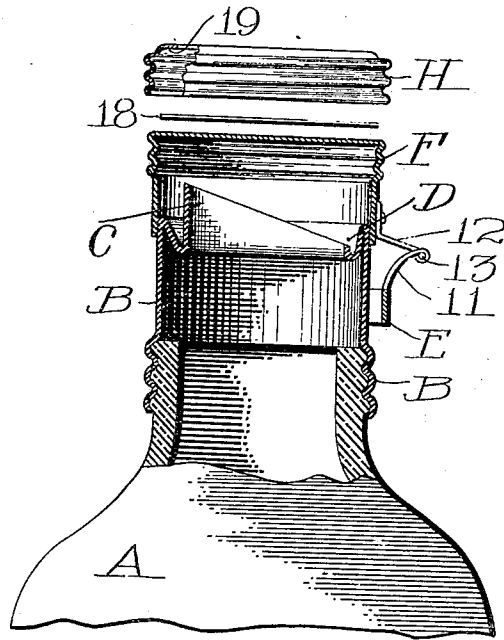


Fig. 2.

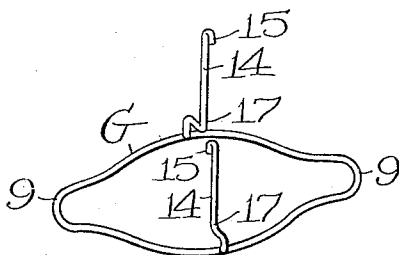


Fig. 3.

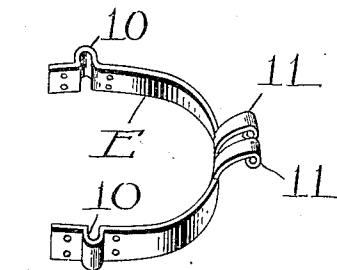


Fig. 4.

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UNITED STATES PATENT OFFICE.

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CLOSURE FOR BOTTLES.

936,062.

Specification of Letters Patent.

Patented Oct. 5, 1909.

Application filed April 3, 1909. Serial No. 487,642.

To all whom it may concern:

Be it known that I, WILLIAM R. WARNER, a citizen of the United States, residing at Vergennes, in the county of Addison and State of Vermont, have invented a new and useful Closure for Bottles, of which the following is a specification.

The object of this invention is to provide a new and improved closure for bottles especially adapted for use in connection with bottles employed in dispensing syrups. Bottles of this character are commonly employed in connection with soda fountains and each usually consists of a bottle having a nozzle and a cap, which cap has to be removed and replaced by hand when the bottle is used. These nozzles get sticky and soil the hands of the attendant and this ordinary arrangement is open to serious objection for this reason. The present improvement overcomes this objection by providing a bottle of this character with a nozzle or outlet which has a hinged cover, and with means consisting of an operating ring or finger-piece arranged adjacent to the nozzle and connected with said hinged cover by suitable rods. By this arrangement, when the operator takes up the bottle, by placing the fingers under the operating ring, the cover can be opened without touching the same, and when the bottle has been used, the cover can be allowed to drop into position or can be brought into closed position by pushing or pulling down on the operating ring.

The invention further consists of improved details of construction hereinafter described and claimed.

Referring to the accompanying drawing forming part of this application for patent, Figure 1 is a side elevation of a bottle having my improved closure applied thereto. Fig. 2 is a sectional view thereof. Fig. 3 is a perspective view of the operating ring or piece and rods, and Fig. 4 is a perspective view of the stamping employed to form the hinged joint for the cover and the guides for the rods.

Referring to the drawing and in detail, A designates a bottle, the neck of which is provided with screw-threads. Screwed on to the neck is a nozzle B made out of metal, which nozzle is provided with a spout or outlet C, which spout is cut away on an incline and depressed into the nozzle B so that a

groove D will be formed around the same to catch any drippings. A stamping E of sheet metal is bent or formed, as shown in Fig. 4, so as to constitute guides or bearings 10—10 and two arms 11—11 for part of a hinged joint.

A sheet metal cover F is employed and riveted to the rear thereof is an arm 12 which fits in between the arms 11—11. The ends of the arms 11—11 and the arm 12 are turned around to form hinged joints through which a pintle or pin 13 is passed so that the cover is hinged or pivoted to the stamping E.

An operating ring G surrounds the bottle neck or nozzle B. This ring has extending finger-pieces 9—9 on its sides, as shown in Fig. 13. This ring is connected by rods 14—14 extending up from the same and passing through the guides 10—10 to the cover F. The rods are provided at their upper ends with loops 15 which are inserted in holes formed in lugs 16—16 projecting down from the cover F, whereby the guides are pivoted to the cover. The operating ring is made of a larger diameter than the nozzle B and the rods 14—14 are bent in as at 17—17 to engage the guides 10—10 so that the operating ring can move vertically without contacting with the nozzle B.

The cover F may be screw-threaded around its upper part to receive a screw-threaded annular cap H. By this arrangement, a label or disk 18 can be laid on top of the cover F and held in place by the annular cap H, the flange 19 of which just engages the outer circumference of said disk. This disk can be printed or marked so that the contents of the bottle can be designated.

By this construction, a simple, efficient device for the purpose stated is provided. The parts may be nickel plated or otherwise finished so as to give a handsome effect.

When the attendant desires to use the bottle, he places his hand under the operating ring G and lifts up thereon which raises the cover so that the bottle may be poured from and when the bottle is put back in place the cover will fall to its closed position or may be brought to its closed position by pushing or pulling down on the operating ring. In this way the operator does not have to touch the cover with his fingers.

The details and arrangements herein shown and described may be greatly varied

by a skilled mechanic without departing from the scope of my invention as expressed in the claims.

Having thus fully described my invention, what I claim and desire to secure by Letters-Patent is:—

1. A closure for bottles comprising a nozzle for attachment to the bottle, a cover pivoted thereto at the rear, an operating piece arranged adjacent to the nozzles, and connections therefrom to the cover at opposite sides, whereby the lifting of the operating piece will directly raise the front end of the cover.
2. A closure for bottles, comprising a nozzle, a cover therefor, an operating ring surrounding the nozzle and having extending finger-pieces, and rods connecting the operating ring and cover.
3. A closure for bottles comprising a nozzle, a stamping riveted thereto forming a

joint and guides, a cover hinged to said joint, an operating ring surrounding the nozzle, and rods extending therefrom through said guides and connecting the operating ring to the cover.

4. A closure for bottles comprising a nozzle having screw-threads for engaging a bottle and provided with a reëntrant spout, a stamping riveted thereto and forming a joint and guides, a cover hinged to said joint, an operating ring surrounding the nozzle and having extending finger-pieces, and rods extending through said guides and connecting the operating-piece and cover.

In testimony whereof I have hereunto set my hand, in the presence of two subscribing witnesses.

WILLIAM R. WARNER.

Witnesses:

F. W. TUTTLE,
GEO. CARD PEASE.