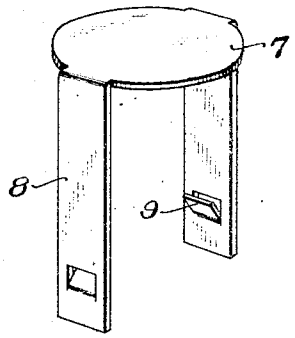
C. JOHNSON.

BOTTLE SEAL.

APPLICATION FILED NOV. 11, 1916.

1,246,748. **Patented Nov. 13, 1917.**

Fig. 4.



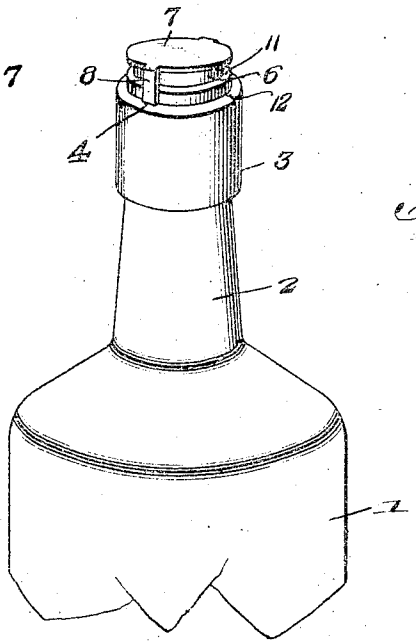


Fig. 1.

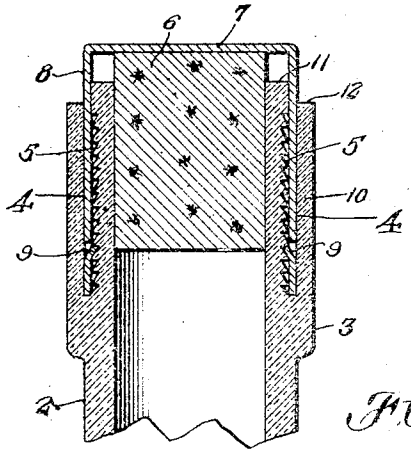


Fig. 2.

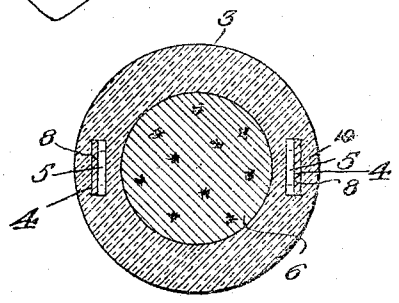


Fig. 3.

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UNITED STATES PATENT OFFICE.

CARL JOHNSON, OF MULLAN, IDAHO.

BOTTLE-SEAL.

1,246,748. Specification of Letters Patent. Patented Nov. 13, 1917.

Application filed November 11, 1916. Serial No. 130,803.

To all whom it may concern:

Be it known that I, CARL JOHNSON, a citizen of the United States, residing at Mullan, in the county of Shoshone and State of Idaho, have invented new and useful Improvements in Bottle-Seals, of which the following is a specification.

This invention relates to bottle closures.

The object of the present invention is to provide a means for effectually sealing the mouth of a bottle.

Another object of the invention is to provide means for effectually sealing the mouth of a bottle, in a manner to prevent the opening thereof without destroying the seal, thereby preventing the refilling and resealing of the bottle without detection.

A still further object of the invention is the provision of a bottle seal of simple construction, attractive appearance and which may be manufactured at a minimum cost.

With the above objects in view the invention consists of the following novel combination and arrangement of parts, hereinafter described and illustrated in the accompanying drawings; in which

Figure 1 is a perspective view of the upper portion of a bottle having the improved seal applied thereto;

Fig. 2 is a central vertical sectional view of the same;

Fig. 3 is a transverse sectional view; and

Fig. 4 is a detailed perspective view of the disk carrying the depending arms.

Referring to the drawings in detail like characters of reference denote corresponding parts. In the practical construction of the invention, as illustrated, the bottle is shown at 1, and may be of any desired size or configuration. The bottle is provided with the usual neck 2 which includes the circular boss or enlargement 3. Longitudinal openings 4 are formed in the opposite sides of the neck, and are provided with serrations 5, for a purpose presently apparent.

The bottle may be provided with the usual cork or other stopper 6, and over this stopper is fitted a disk 7, provided with depending oppositely arranged arms 8. These arms 8 are preferably formed integral with the disk 7 and are adapted to enter the openings 4, as illustrated. The arms are formed with inwardly projecting spring tongues 9 adapted to engage the serrations 5, by means of which they are locked within the openings. The serrated openings 5 may be formed in various ways, for example the openings may be formed by means of a cork which may be afterward destroyed or removed, or the outer wall 10 of the openings may be separately formed and used or otherwise secured to the bottle neck, so that it will in effect be an integral portion thereof. The neck of the bottle is further provided with an angular flange 11 by means of which the shoulder or ledge 12 is provided, which will materially aid in inserting the arms 8 in the openings, it being only necessary to press the arms inward upon the ledge 12 and against the flange 11 and turn until the ends of the arms are above the openings 4 when they may be readily positioned within the said openings.

It will be seen by reference to the drawings that after the cork or stopper is inserted within the bottle neck and the arms positioned within the openings 4 it will be impossible to remove the stopper without destroying the arms of the disk, and therefore it will be impossible to open the bottle without detection.

Various changes in the form and proportion of the invention may be made as will properly fall within the scope of the appended claim.

Having described the invention what I desire to claim, is;

In combination, a bottle having a neck provided with oppositely disposed longitudinally arranged sockets open at the top of the neck, transversely disposed teeth provided upon the inner wall of each of said sockets, a stopper for said neck, a sealing element formed from a single piece of material to provide a disk adapted to be positioned in contact with the upper end of said stopper and having diametrically located parallel arms extending therefrom for insertion in said sockets, inwardly projecting upwardly extending spring tongues carried by said arm for engagement with said teeth and an annular flange surrounding said neck, the inner periphery of said flange alining with the inner walls of the sockets to form a guide for the insertion of the parallel arms.

In testimony whereof I affix my signature.

CARL JOHNSON.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."