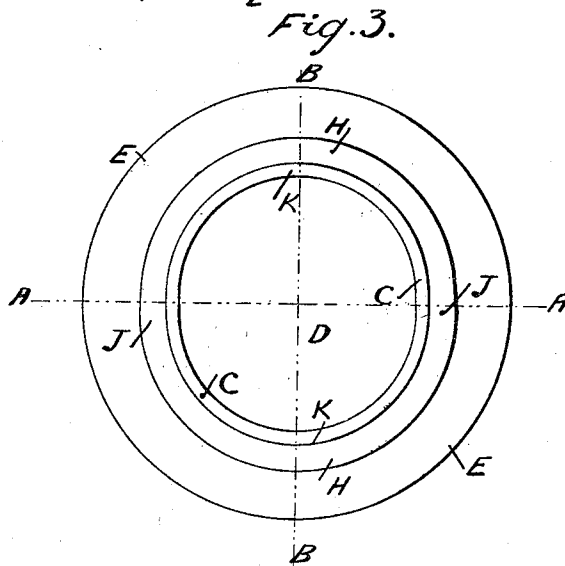
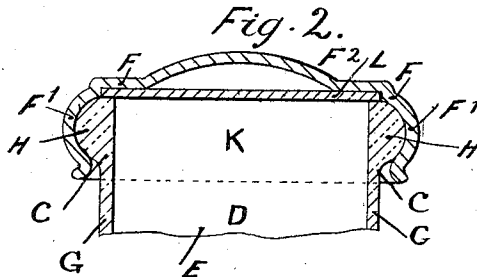
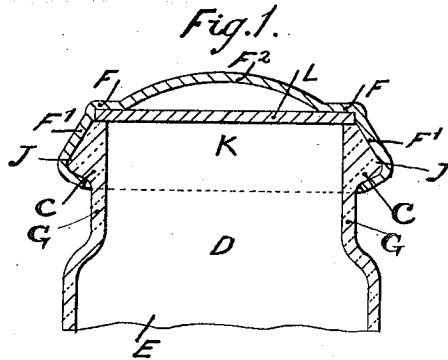


H. G. BOSTON.
CLOSURE FOR THE MOUTHS OF HOLLOW VESSELS.
APPLICATION FILED JULY 18, 1910.

1,053,003.

Patented Feb. 11, 1913.



Witnesses
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UNITED STATES PATENT OFFICE.

HENRY GEORGE BOSTON, OF YORK, ENGLAND.

CLOSURE FOR THE MOUTHS OF HOLLOW VESSELS.

1,053,003.

Specification of Letters Patent.

Patented Feb. 11, 1913.

Application filed July 18, 1910. Serial No. 572,510.

To all whom it may concern:

Be it known that I, HENRY GEORGE BOSTON, a subject of Great Britain, residing at No. 50 Scarcroft road, York, England, have invented new and useful Improvements in or Connected with Closures for the Mouths of Hollow Vessels, of which the following is a specification.

This invention relates to closures for the mouths of hollow vessels and has particular reference to a type of glass bottle to be made by machinery, for holding sweets, pickles, and the like, and the invention consists in a particular or specific shape and disposition of rim and mouth which are formed integrally with the bottle at the same time to characterize the said type of bottle, and an appropriate cap adapted to coact with the special rim and mouth aforesaid so as to form an effective air-tight closure for the mouths of such vessels.

The accompanying drawings illustrate the invention, as applied, say to a bottle. In these, Figure 1 is a sectional elevation on the line A. A. of Fig. 3. Fig. 2 is a sectional elevation on line B. B. of Fig. 3, and Fig. 3 is a plan of hollow mouthed vessel having rim and mouth according to my invention.

To the end in view and according to my invention, the special rim C and mouth D aforesaid are formed by the machinery at the same time as the bottle E, by which means the rims C are in all cases uniform in contour, pattern, shape, or disposition, whereby the caps F, as hereinafter described, are interchangeable, or in other words, the co-acting parts are so that any of the caps F will fit any of the said bottles E and vice versa.

The improved rim C at the part nearest to or abutting the neck G, in the case of a bottle E, is curved all around and is slightly extended or enlarged at opposite sides H and at the other opposite sides J is slightly drawn in. At the extended or enlarged parts H the section of the rim is slightly curved, the curve being greater at these

parts, and falls to a slope, incline or taper at the drawn in parts J.

The co-acting closure comprises a cap F preferably of metal having a depending flange or rim F¹ and domed top F², is preferred, and an internally disposed diaphragm or disk L of pliable material.

The cap F is so shaped relatively to the said rim C that it will fit readily by the resiliency of the depending flange or rim F¹ on to the top K of the vessel, and adapt itself to the variable contour of the rim, and by a slight turn cause it to fix itself in an air-tight manner, the turn being given until the rim holds the cap against further turning.

If required, by providing a slight extension to and around the flange or rim F¹ of the cap F it can be adapted for allowing the bottle or jar to be further sealed or made air-tight by the use of an adhesive material such as is often used with ordinary corks or bungs of pickle bottles for that purpose.

The invention applies equally to tins, jars, or any hollow mouthed vessel for preserves, or commercial foods for domestic consumption.

I claim:—

1. The combination of a hollow mouthed vessel, the mouth of said vessel being provided with a peripherally arranged rim having a variable cross-sectional contour, and a closure adapted for engagement with said rim, said closure having a uniform cross-sectional contour throughout.

2. The combination of a hollow mouthed vessel, the mouth of said vessel being provided with a peripherally arranged rim, said rim being uniformly curved at its base and having oppositely disposed curved and flat side faces, and a closure adapted to engage said rim.

HENRY GEORGE BOSTON.

Witnesses:

HERBERT DUNN,
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