

No. 815,344.

PATENTED MAR. 20, 1906.

G. H. GILLETTE.
SEAL FOR BOTTLES.
APPLICATION FILED APR. 25, 1905.

Fig. 1.

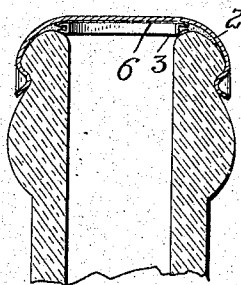


Fig. 2.

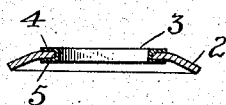
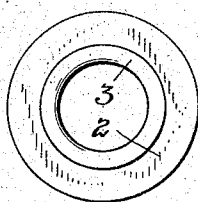


Fig. 3.



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UNITED STATES PATENT OFFICE.

GEORGE H. GILLETTE, OF NEW YORK, N. Y., ASSIGNOR TO THE CROWN CORK & SEAL COMPANY, OF BALTIMORE, MARYLAND, A CORPORATION OF MARYLAND.

SEAL FOR BOTTLES.

No. 815,344.

Specification of Letters Patent.

Patented March 20, 1906.

Application filed April 25, 1905. Serial No. 257,348.

To all whom it may concern:

Be it known that I, GEORGE H. GILLETTE, a citizen of the United States, residing at Nos. 110-114 West Thirty-second street, New York, State of New York, have invented certain new and useful Improvements in Seals for Bottles, of which the following is a specification.

The invention relates to bottle-closures, and particularly to the form of closure known as the "crown" and to the sealing medium used with this form of closure.

The object is to provide a sealing medium to lie within and be carried by the crown which will prevent the escape of the liquid or gases, said seal being of such character and arrangement as to avoid impairing the taste of the liquid and also preventing deterioration of the packing material of which the sealing medium is composed.

The invention consists in the features and combination and arrangement of parts hereinafter described, and particularly pointed out in the claims.

In the accompanying drawings, Figure 1 is a vertical section of a bottle with a crown-closure thereon and the improved sealing medium in place. Fig. 2 is a sectional view of the sealing medium or washer, and Fig. 3 is a plan view of the said sealing medium or washer.

As shown in Fig. 1, the crown is placed over the bottle-mouth with its flange depending along the bottle-head, in which position it is held by the lower edge of the flange being located beneath the exterior shoulder on the bottle. With this crown the sealing medium or washer is arranged, consisting of a ring of suitable packing material 2, adapted to rest on the lip of the bottle and be compressed by the pressure exerted in applying the crown, the inner edge of the said ring being clamped to a carrying-ring of metal 3, which metal ring or lining is U shape in cross-section, thus providing a peripheral groove in which the edge of the packing lies and is clamped by the flanges 4 and 5. This metal ring or lining is formed of non-corrosive material, such as aluminium, and when the parts are in place and pressure has been applied the metallic ring will seat itself upon the bottle around the edge of the mouth and prevent contact between the liq-

uid contents of the bottle and the packing-ring, and in this way the liquid will not be affected in taste by the character of the packing-ring, and, on the other hand, the packing-ring will not be attacked by the acids in the liquid.

In order to prevent the liquid from coming in contact with the metal of the crown, a collet 6 is provided formed of paraffined paper or like substance, the said collet lying against the inner side of the top of the crown and extending over the portion of the crown which would otherwise be exposed within the circuit of the metal ring or lining. The metallic ring or lining and the surface of the collet are in firm contact throughout the circuit of the lining when the parts are in proper position, so that the liquid will be prevented from passing above the metallic lining and thus reaching the packing material.

The invention is not limited to any particular kind of packing material, as a textile fabric may be employed saturated with rubber or any other solution or cork or a composition material may be employed such as will enable the washers or sealing mediums to be furnished at a small cost.

I claim—

1. A sealing medium for bottle-caps and the like, consisting of a packing material in ring form and a ring of non-corrosive material attached to the inner edge of the packing, said packing material projecting from the ring to bear on the bottle-lip, substantially as described.

2. A sealing medium for bottle-caps, consisting of a packing-ring and a carrying-ring within the packing-ring, having upper and lower flanges clamping the said packing-ring between them, said packing material projecting between the flanges to bear on the bottle-lip, substantially as described.

3. In combination with a bottle and a bottle-cap, a sealing medium consisting of a packing-ring and a carrying-ring extending around the inner edge of the packing-ring, said carrying-ring resting on the bottle and preventing contact between the liquid and the packing, which latter projects from the carrying-ring and bears on the bottle-lip, substantially as described.

4. In combination, a bottle, a packing-ring to rest on the lip thereof, a carrying-ring

extending around the inner edge of the packing-ring and having upper and lower flanges clamping the packing between them and a bottle-cap extending over the sealing medium and locked to the exterior of the bottle, the said packing extending from between the flanges and bearing on the bottle-lip, substantially as described.

5. In combination the bottle, a bottle-cap locked to the exterior thereof, a sealing medium consisting of a packing-ring to rest on the lip of the bottle, a carrying-ring extending around the inner edge of the packing-ring and resting on the bottle and a collet on the inner side of the cap against which the carrying-ring presses, substantially as described.

6. A sealing medium for bottle-caps and

the like, consisting of a packing material in ring form and a carrying-ring attached to the inner edge of the packing material, leaving the packing material exposed to bear on the bottle-lip.

7. A closure for bottles comprising an outer member to be locked to the bottle, a second member in the form of a ring and a permanently-attached gasket projecting from said ring to bear on the bottle-lip, substantially as described.

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

GEORGE H. GILLETTE.

Witnesses:

HERBERT A. BANNING,
HAROLD LETH.