No. 658,382. Patented Sept. 25, 1900.

A. A. LOW.

CLOSING CAP FOR VESSELS.

(Application filed Jan. 2, 1900.)

(No Model.)

Fig. 1.

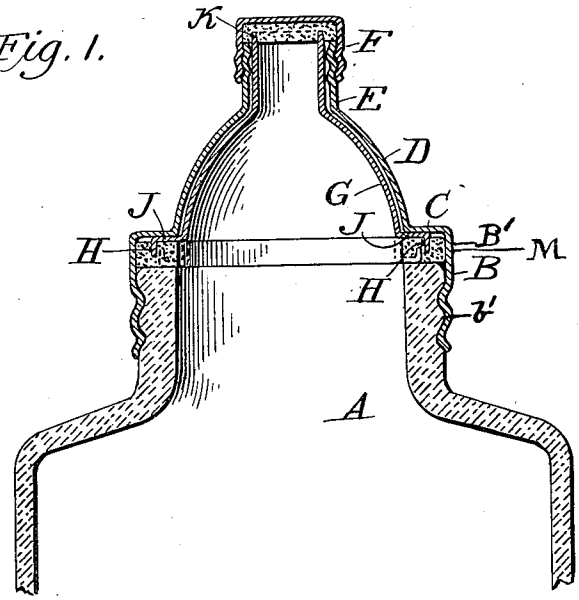
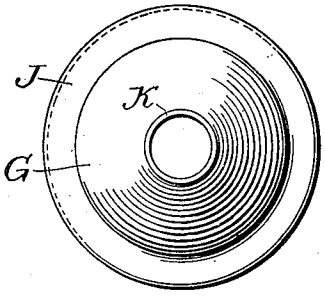


Fig. 2.



WITNESSES

James F. Duhamel.

Charles W. Long

INVENTOR

Abbot Augustus Low

BY

James M. Hicks

ATTORNEY

THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

ABBOT AUGUSTUS LOW, OF NEW YORK, N. Y.

CLOSING-CAP FOR VESSELS.

SPECIFICATION forming part of Letters Patent No. 658,382, dated September 25, 1900.

Application filed January 2, 1900. Serial No. 41. (No model.)

To all whom it may concern:

Be it known that I, ABBOT AUGUSTUS LOW, a citizen of the United States, and a resident of New York, (Brooklyn,) in the county of Kings and State of New York, have invented a certain new and useful Closing-Cap for Vessels, of which the following is a specification.

My invention relates to means for hermetically sealing vessels from the air and to preventing the contents from fouling the outer side of the neck of the vessel to which the closing means is sealed; and it consists in certain elements and combinations fully specified and claimed hereinafter.

In order that persons skilled in the art to which my invention appertains may understand, construct, and use my invention, I will proceed to describe it, referring to the drawings herewith, in which—

Figure 1 is a vertical central section of my invention as applied to the mouth of a bottle with screw-cap. Fig. 2 is a top view of the inner protecting-shield.

A is the bottle.

B is the threaded portion of the barrel of the screw-cap which takes onto screw-thread *b'*, formed on the outside of the neck of the bottle in the usual way.

B' is the portion of the barrel B not threaded and above the threaded portion to present to the sides of the packing a smooth circumferential surface.

C is a flange turned inward at about right angles to the upright sides of the barrel B'.

D is a dome rising from the inner edges of the flange C and surmounted by a discharge-tube E.

F is a screw-cap fitted with cork to close the tube E.

G is an inner protecting-shield conforming generally to the shape of the dome D and neck E. It protrudes into and slightly above the top of the neck E at K and cuts into or enters the under side of the cork packing in cap F when closed upon the neck E. At its lower end a flange J is turned outward just under the flange C, and at the outer circumference of flange J a downward rim H is turned, so that when the barrel B is screwed hard down upon the packing M between the flange C and top of the bottle-neck the rim H cuts into or enters the upper surface of said packing or cork. In this manner the contents of the vessel are prevented from passing this internal shield either at its top or bottom. The upper surfaces of the bottle-necks are usually ground off roughly and present a surface which is easily packed, so that my invention is very efficient in packing and closing a vessel from the air and keeping it clean.

It will be observed that the barrel B is never removed except to fill the vessel, the discharge-opening E being used for emptying the vessel.

Having now fully described my invention and the manner in which I have embodied it, what I claim, and desire to secure by Letters Patent, is—

In a closing-cap for vessels, the combination consisting of the barrel B, screw-thread *b'*, non-threaded portion B', flange C and packing-piece M dome D, and closing-cap F, internal lining G, constructed as shown and described to project above the opening of neck E and to flange under the flange C, said flange being provided with a vertical cutting edge H all arranged, constructed and combined to when applied to the mouth of a vessel, hermetically seal said vessel, by forcing the cutting edge H into cork or packing-piece M, by means of the closing-cap F, and by screwing the barrel B upon the vessel A, substantially as specified.

Signed at New York city, in the county of New York and State of New York, this 8th day of December, A. D. 1899.

ABBOT AUGUSTUS LOW.

Witnesses:

JAMES W. EATON,

SIDNEY S. PAINTER.