No. 886,925. PATENTED MAY 5, 1908.

E. D. BETTS & E. VANDENBERG.

SEALING CAP FOR BOTTLES.

APPLICATION FILED JUNE 20, 1907.

Fig. 1.

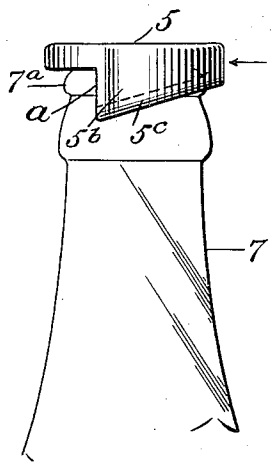


Fig. 2.

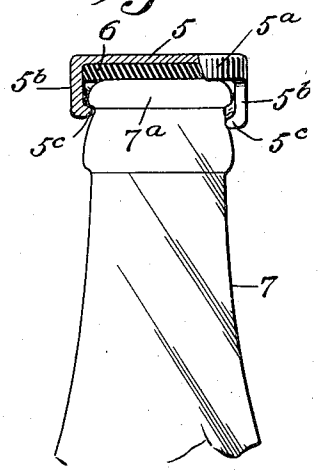
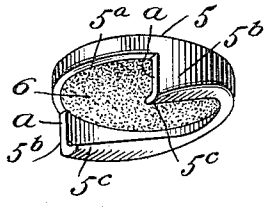


Fig. 3.



WITNESSES

L. Sanford Hawks

Wm. P. Patton

INVENTORS

Everett D. Betts

Edward Vandenberg

BY Munn & Co.

ATTORNEYS.

UNITED STATES PATENT OFFICE.

EVERETT DOUGLAS BETTS AND EDWARD VANDENBERG, OF LANCASTER, NEW YORK.

SEALING-CAP FOR BOTTLES.

No. 886,925. Specification of Letters Patent. Patented May 5, 1908.

Application filed June 20, 1907. Serial No. 379,907.

To all whom it may concern:

Be it known that we, EVERETT DOUGLAS BETTS, a subject of the King of Great Britain, and EDWARD VANDENBERG, a citizen of the United States, and both residents of Lancaster, in the county of Erie and State of New York, have invented a new and Improved Sealing-Cap for Bottles, of which the following is a full, clear, and exact description.

In putting up sealed packages for the trade, of soft drinks such as beer, ale, mineral waters and carbonated liquids, the bottles containing such liquids are sealed at the bottling works by machinery, and when the closures of such receptacles are removed, no means for sealing the bottles again to preserve air tight any of the contents that may remain in the bottles, are provided, consequently the beverage becomes stale and flat and therefore unfit for liquid refreshment.

The object of our invention is to provide a novel, simple sealing cap for bottles, that may be readily applied to the open neck of a bottle, and hermetically seal the broached receptacle for the preservation of any contents of the bottle that may remain after the bottle has been first opened and a portion of the liquid therein removed.

The invention consists in the novel construction and combination of parts, as is hereinafter described, and defined in the appended claims.

Reference is to be had to the accompanying drawings forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the views.

Figure 1 is a side view of a bottle neck, and of the improved sealing cap mounted thereon; Fig. 2 is a transverse sectional view of the improved sealing cap applied as a closure upon a bottle neck, and Fig. 3 is a perspective view of the improved sealing cap, detached, and exposing its novel construction.

The improved sealing cap is preferably made of non-corrodible metal, such as aluminum, and may with advantage be cast into form.

The device consists of an imperforate disk 5 rounded on the periphery, and having a peripheral flange 5^a that projects below the flat inner surface thereof sufficiently to form a shallow recess, wherein is embedded a flat circularly edged planchet 6 of rubber, or other slightly yielding material. Integrally with the flange 5^a, two flanged extensions 5^b are formed oppositely thereon, each having a sloped free edge which extends from the peripheral flange 5^a to an offset shoulder *a*, said shoulders being of an equal height and disposed oppositely. Upon the sloped edges of the flanged extensions 5^b, an inwardly turned hook flange 5^c is formed on each, as appears in Figs. 2 and 3.

The improvement is designed to be mounted upon a class of bottles used for the packing of malt and aerated beverages. Usually these bottles have similar necks 7, that, at their pouring ends, each terminate in a radial bead 7^a, shown in Figs. 1 and 2.

The hook flanges 5^c are spaced apart at the shoulders *a* on the flanged extensions 5^b, a distance that permits them to be slid into engagement with the bead 7^a at opposite points thereon. This is effected by first imposing the joint planchet 6 upon the free edge of the bottle neck 7 opposite the shoulders *a*, and then pressing the cap piece 5 in direction of the arrow in Fig. 1, which will forcibly impinge the hook flanges 5^c upon the lower side of the radial bead 7^a.

It will be seen that the sliding engagement of the cap piece, as hereinbefore described, will compress the elastic joint planchet 6 upon the true top edge of the bottle neck 7 and thus seal the same hermetically, holding the gaseous and liquid contents therein until the bottle is broached by a removal of the cap piece.

It is claimed that by employment of the improved sealing cap, a great saving of the liquid contents of beer, ale, or soda water bottles may be effected, as upon removal of the corks first holding the bottle necks sealed, and a removal of a portion of the contents of the bottles, the remaining gas and liquor may be preserved for subsequent use by quickly placing the improved sealing cap upon the bottle neck.

Having thus described our invention, we claim as new and desire to secure by Letters Patent:

1. A sealing cap for a bottle neck, comprising a circular disk, a peripheral flange thereon, two opposite depending flanges on the peripheral flange and having sloped edges that are turned inward forming hook members thereon, and a pliable joint piece on the disk held in place by the peripheral flange.

2. A sealing cap for a bottle neck, comprising a flat circularly edged disk, an inte-

gral peripheral flange on one side of the disk, two opposite flanged extensions on the peripheral flange, said flanged extensions having sloped lower edges that are turned inwardly producing hook members thereon, one end of each depending flange merging into the peripheral flange and the other end thereof terminating in an offset shoulder, and a pliable joint piece seated on the disk and contacting with the peripheral flange.

3. The combination with a bottle neck, having an annular bead at its pouring end, of a sealing cap comprising a flat circular disk, an integral depending peripheral flange on said disk, depending flanged extensions oppositely disposed on the peripheral flange, each flange having a sloped edge, said edges inclining toward the same point on the depending flange and having inwardly bent members thereon, that form hooks that may engage the annular bead, and a pliable joint piece seated on the disk that will be compressed when said hook members are forced beneath the bead.

EVERETT DOUGLAS BETTS.
EDWARD VANDENBERG.

Witnesses:
WILLIAM J. BARR,
THOMAS LEARY.