(No Model.)

M. ALTSTAEDTER.

BOTTLE CLOSURE.

No. 588,939. Patented Aug. 31, 1897.

Fig. 1.

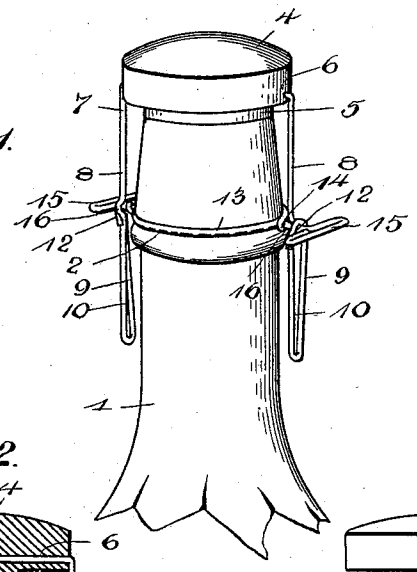


Fig. 2.

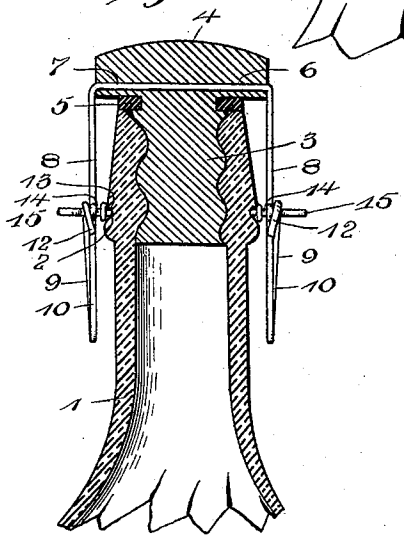


Fig. 3.

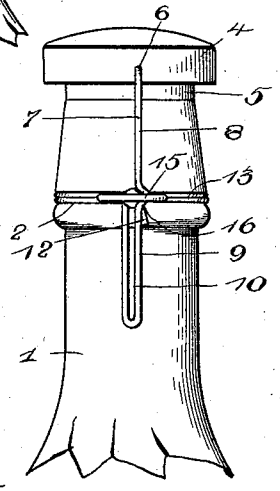
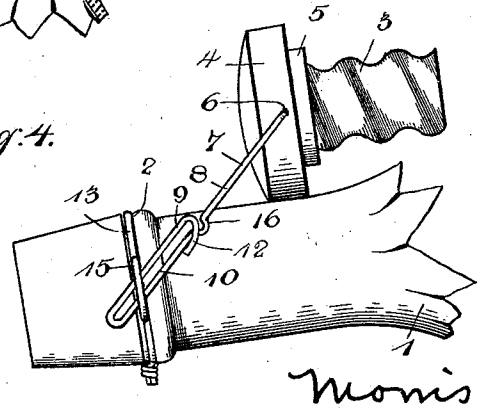


Fig. 4.



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UNITED STATES PATENT OFFICE.

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BOTTLE-CLOSURE.

SPECIFICATION forming part of Letters Patent No. 588,939, dated August 31, 1897.

Application filed November 18, 1896. Serial No. 612,588. (No model.)

To all whom it may concern:

Be it known that I, MORRIS ALTSTAEDTER, a citizen of the United States, residing at New York, in the county of New York and State of New York, have invented certain new and useful Improvements in Bottle-Closures; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention has relation to improvements in the construction of screw-caps for bottles; and the object is to form a simple, cheap, and effective device of this class.

To this end the novelty consists in the construction, combination, and arrangement of the same, as will be hereinafter more fully described, and particularly pointed out in the claims.

In the accompanying drawings the same reference-numerals indicate the same parts of the invention.

Figure 1 is a perspective view of a bottle-cap embodying my invention. Fig. 2 is a vertical section of the same. Fig. 3 is a side elevation, and Fig. 4 is a side elevation showing the position of the cap when the bottle is inverted.

1 represents the neck of the bottle, provided with the usual external annular groove 2. The mouth of the bottle is internally screw-threaded to receive the correspondingly-threaded shank or core 3 of the cap 4.

5 represents an annular elastic packing-ring secured to the cap, which forms an air-tight joint between the mouth of the bottle and the cap when the latter is forced home.

6 is a horizontal diametrical orifice which receives the yoke 7 of the bail-wire, which is formed with the integral depending parallel arms 8 8, the lower ends 9 9 of which are turned upward parallel with said arms to form oblong links 10 10, and their immediate upper ends 12 12 are turned over and across to join the contiguous side of each arm to close the upper portion of said link.

13 represents the annular neck-band, which snugly encompasses the groove 2 to secure it in place and at the same time permit a free rotation in said groove. This band 13 is provided with oppositely-disposed integral radial arms 14 14, which extend outwardly through the links 10 10 and terminate in oblong horizontal eyes 15 15.

The arms 8 8 are formed with integral detents 16 16, and when the cap is screwed home these detents 16 16 engage their respective arms 14 14 and lock the cap in position against accidental displacement.

To remove the cap, the arms 8 8 are simultaneously forced to the right to release the detents 16 16 from the radial arms 14 14, and then the cap, bail, and neck-band are simultaneously rotated in the same direction, which raises the cap through the operation of its threaded shank or core, the links 10 10 riding upwardly on the arms 14 14, and after the cap is entirely released it may be thrown back into the position shown in Fig. 4.

Although I have specifically described the construction and relative arrangement of the several elements of my invention, I do not desire to be confined thereto, as such changes or modifications may be made as clearly fall within the scope of my invention without departing from the spirit thereof.

Having thus fully described my invention, what I claim as new and useful, and desire to secure by Letters Patent of the United States, is—

1. A bottle-closure comprising a bottle having its neck formed with an external annular groove and an internal screw-threaded mouth, in combination with a cap provided with an integral externally-threaded shank, a transverse orifice, and an independent packing-ring, a bail-wire having its yoke secured in said transverse orifice and formed with the integral parallel arms having detents 16 16 and terminating in oblong links, and the neck-band encompassing said external groove, and provided with radial arms 14 14, engaging said oblong links and terminating in oblong horizontal eyes 15 15, substantially as and for the purpose set forth.

2. A bottle-closure, comprising the internally-screw-threaded neck 1, provided with the external circumferential groove 2, the neck-band 13 loosely secured in said groove 2, and formed with oppositely-disposed radial arms 14 14 terminating in integral oblong hori-

zontal eyes 15 15, in combination with the cap 4 having an integral threaded shank and a transverse horizontal orifice 6 extending through its solid portion, a bail-wire having its yoke 7 secured in said orifice 6 and formed with the integral depending parallel arms 8 8, formed with the integral detents 16 16, and having their free ends terminating in oblong links 10 10 encompassing the oppositely-disposed radial arms 14 14, substantially as shown and described.

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

MORRIS ALTSTAEDTER.

Witnesses:
SAML. A. DRURY,
E. F. CAVERLY.