

G. A. WILLIAMS.
BOTTLE CAP FASTENER.
APPLICATION FILED MAR. 12, 1907.

Fig. 1.

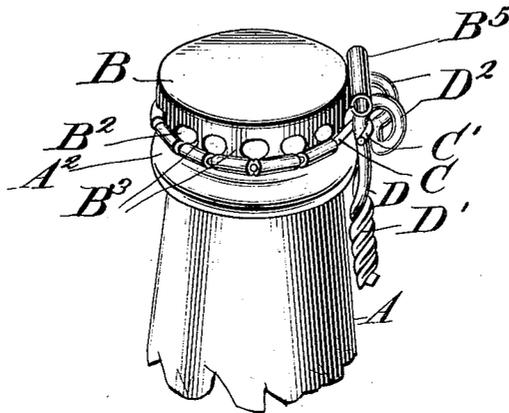


Fig. 2.

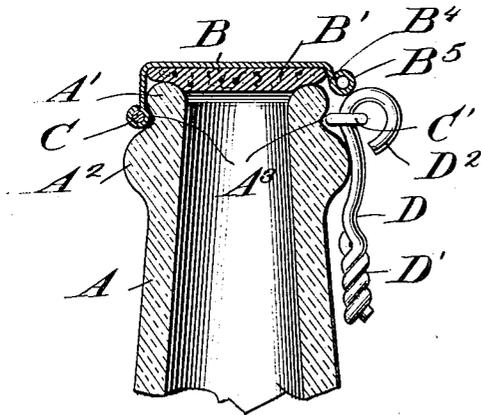


Fig. 3.

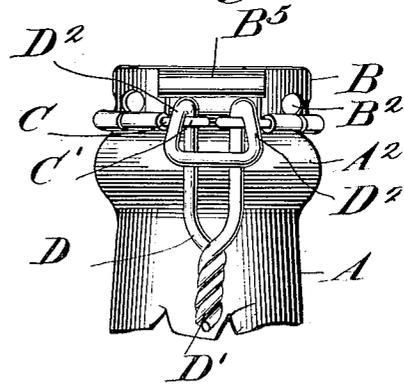


Fig. 4.

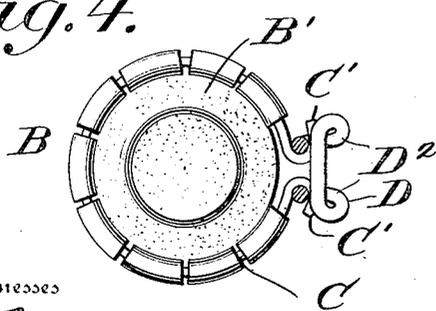
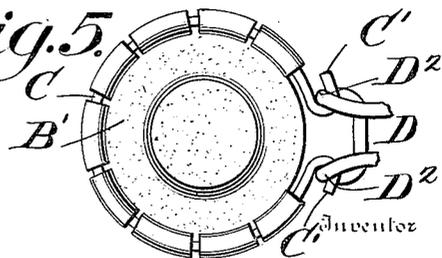


Fig. 5.



Witnesses

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GEORGE ALBERT WILLIAMS, OF NEWCASTLE, INDIANA.

BOTTLE-CAP FASTENER.

No. 873,646.

Specification of Letters Patent.

Patented Dec. 10, 1907.

Application filed March 12, 1907. Serial No. 362,055.

To all whom it may concern:

Be it known that I, GEORGE ALBERT WILLIAMS, a citizen of the United States, residing at Newcastle, in the county of Henry and State of Indiana, have invented a new and useful Improvement in a Bottle Cap Fastener, of which the following is a specification.

This invention relates to bottle or jar caps and more particularly to means for fastening the caps upon the bottle or jar so that it can be easily and quickly attached or detached without the use of an instrument.

With this and other objects in view, the invention consists in the novel features of construction, combination and arrangement of parts, hereinafter fully described and pointed out in the claims.

In the drawing forming a part of this specification:—Figure 1 is a perspective view of my improved bottle cap secured on the mouth of the bottle. Fig. 2 is a vertical sectional view of the same. Fig. 3 is a side elevational view. Fig. 4 is an inverted plan view of the cap and fastener in a locked position, and Fig. 5 is an inverted plan view of the cap and fastener in an unlocked position.

Referring to the drawing A indicates the mouth of a bottle upon which my improved cap B, which is provided with the usual packing B' is adapted to fit and close the mouth of the bottle. The exterior of the mouth is formed with spaced shoulders A', A² forming a groove between the same, the shoulder A' having a beveled side A³ formed on one side of the groove and the shoulder A² is formed larger than the shoulder A' for the purpose hereinafter fully described.

The cap B is preferably formed of sheet metal the sides of which are provided with a series of slits B² forming a series of segments B³, the lower ends of which are bent back upon themselves over a split ring C, which almost completely encircles the sides of the cap, having outwardly extending ends, which are bent to form hooks C'. The segment B⁴ between the ends of the ring C, is formed larger than the segment B³ and is bent upwardly upon itself to form a bearing sleeve B⁵ for the purpose hereinafter fully described.

A lever D is employed for drawing the ends of the ring together to contract the sides of the cap, and consists of a U-shaped wire frame, the free ends of which are twisted upon themselves to form a handle D'.

The parallel members of the frame diverge from a portion of the length adjacent their closed ends of the frame, and are bent back upon themselves to form converging rings D², over which the hooked ends C' of the ring C are secured. The rings bear against the bearing sleeve B⁵ and the shoulder A² so that the lever can be readily worked up and down so as to contract the cap on the mouth of the bottle. The parallel bars of the lever are curved outwardly so that when the lever is thrown downwardly, the curved portions will fit over the shoulder A², the hooked ends of the ring traveling over the converging rings will be drawn together so as to contact the sides of the cap in the groove on the beveled side of the shoulder which will draw the cap down over the mouth of the bottle.

Having thus fully described my invention, what I claim as new and desire to secure by Letters Patent is:—

1. A bottle or jar closure comprising a cap having yielding sides provided with a bearing sleeve, a split ring loosely mounted in the lower ends of the sides provided with hooked ends, and a lever provided with converging rings mounted on the hooked ends of said ring, bearing against said bearing sleeve.

2. A bottle or jar closure comprising a cap having split sides, one of which is bent to form a bearing sleeve, of a ring loosely mounted in the lower ends of the sides provided with hooked ends, and a lever formed of a U-shaped wire frame bent to form converging rings mounted on the hooked ends of the ring, bearing against said bearing sleeve.

3. In a bottle or jar closure comprising a cap having a series of split sides forming segments provided with tubular lower ends, of a split ring mounted in said ends provided with hooked ends, the segment between the ends of the ring being bent upwardly and back upon itself, to form a bearing sleeve, and a lever formed of a U-shaped wire frame having its free ends twisted upon itself and its closed ends bent back upon itself to form converging rings on which the hooked ends of the lever operate, said rings bearing against said bearing sleeve.

GEORGE ALBERT WILLIAMS.

Witnesses:

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