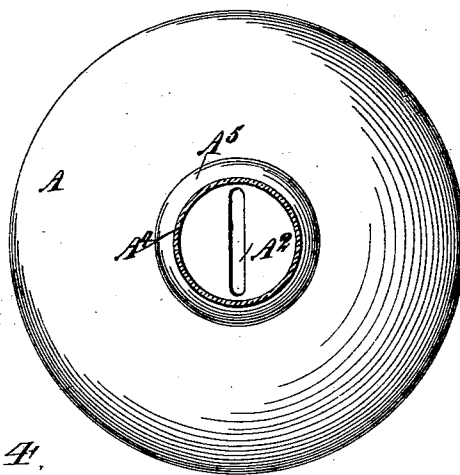
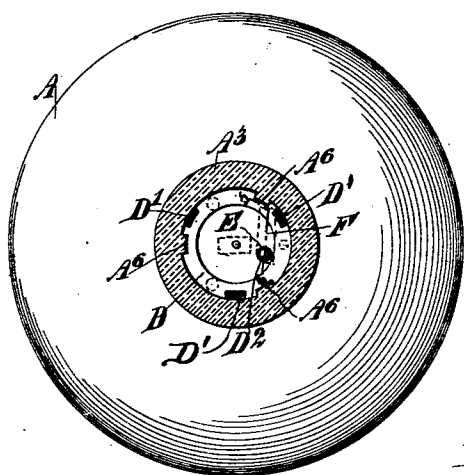
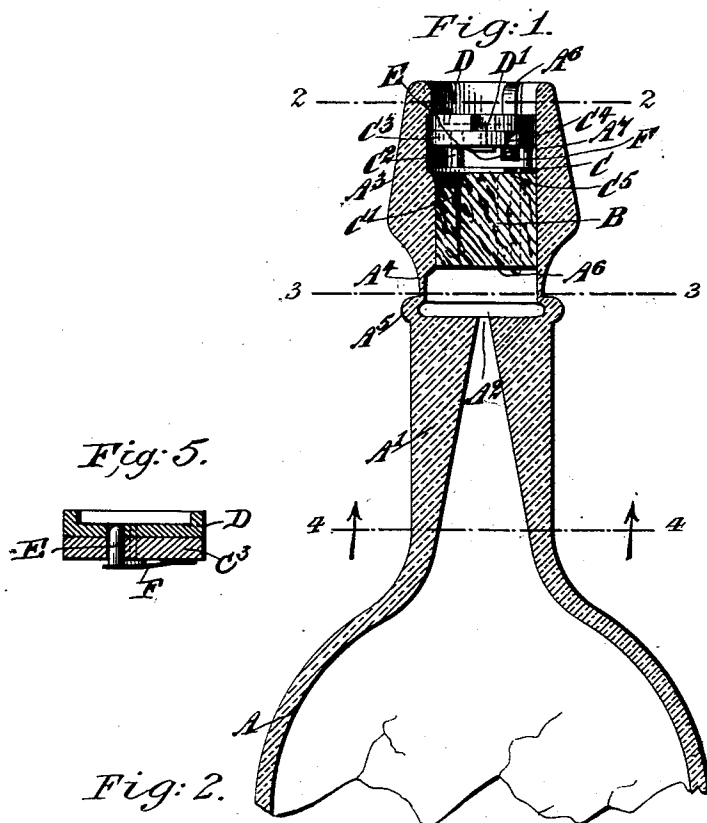


(No Model.)

W. LAUDAHN.
BOTTLE CLOSURE.

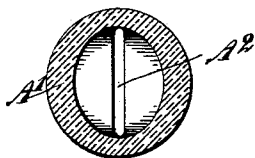
No. 564,826.

Patented July 28, 1896.



WITNESSES:

WITNESSES:
J. A. Kinnear
Rev. J. H. Smith



INVENTOR

W. Landahn
BY *Munn & Co*
ATTORNEYS

UNITED STATES PATENT OFFICE.

WILLIAM LAUDAHN, OF PORT ANGELES, WASHINGTON.

BOTTLE-CLOSURE.

SPECIFICATION forming part of Letters Patent No. 564,826, dated July 28, 1896.

Application filed December 23, 1895. Serial No. 573,031. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM LAUDAHN, of Port Angeles, in the county of Clallam and State of Washington, have invented a new and Improved Bottle-Closure, of which the following is a full, clear, and exact description.

The object of the invention is to provide a new and improved bottle-closure which is simple and durable in construction and arranged to securely seal the bottle and prevent refilling of the same by unauthorized persons.

The invention consists principally of a bottle provided with an auxiliary neck having a frangible lower end for readily breaking the auxiliary neck off the main neck, a stopper in said auxiliary neck, and a locking device for holding the stopper securely in place.

The invention also consists of certain parts and details and combinations of the same, as will be fully described hereinafter, and then pointed out in the 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 figures.

Figure 1 is a sectional side elevation of the improvement as applied. Fig. 2 is a sectional plan view of the same on the line 2 2 of Fig. 1. Fig. 3 is a like view of the same on the line 3 3 of Fig. 1. Fig. 4 is an inverted plan view of the same on the line 4 4 of Fig. 1, and Fig. 5 is a detail section on the line 5 5 of Fig. 2.

The bottle A is provided with a neck A', having an elongated and contracted inlet-opening A², as plainly shown in Figs. 1, 3, and 4. From the main neck A' extends an auxiliary neck A³, integral with the neck A' and connected with the same by the thin frangible end A⁴, adapted to be broken off by a suitable tool, or by knocking the auxiliary neck against a table or other fixed article.

The upper end of the neck A' is provided with an annular flange A⁵ for conveniently attaching an ordinary cap after the auxiliary neck A³ is broken off. In the auxiliary neck A³ is held a cork or like stopper B, pressed down the neck A³ along a series of vertically-disposed ribs A⁶, so as to securely hold the stopper in place. On the top of this stopper B is held a metallic plate C by means of

prongs C', extending down into the stopper, and on the top of this metallic plate are secured a number of lugs C², extending upwardly and rigidly connected with a second plate C³, fitted with the plate C into a recess A⁷, formed in the auxiliary neck A³ near the upper end thereof by cutting out portions of the vertical ribs A⁶.

The two plates C and C³ are provided in their peripheries with notches C⁴, fitting onto the ribs A⁶ upon letting said plates C and C³ down into the recess A⁷. The top of the plate C³ is adapted to be engaged by a locking-disk D, likewise formed in its periphery with notches D', engaging the upper ends of the ribs A⁶, to permit of letting this locking-disk D down upon the plate C³ and into the upper end of the recess A⁷. In this disk D is formed an opening D², adapted to be engaged by a pin E, fitted to slide vertically in the plate C³ and pressed on at its lower end by a spring F, attached to the under side of the plate C³, so that the free end of the spring extends between the plates C and C³.

When the disk D is placed in position in the recess A⁷, then it is free to turn, as the ribs A⁶ are cut out at the recess A⁷, and in turning said disk D its aperture D² finally registers with the spring-pressed pin E, so that the latter flies up into the opening D², to prevent the locking-disk from being turned in either direction. It will be seen that when the disk D is inserted and turned and automatically locked in place then the cork B, plates C and C³, and the disk D cannot be removed, whereby the bottle is securely closed and a refilling thereof is entirely prevented.

When it is desired to empty the bottle of its contents, then the auxiliary neck A³ must be broken off at the frangible end A⁴ to permit of pouring the contents of the bottle through the opening A² in the neck A'. It is distinctly understood that the opening D² and the locking-disk D are not in register with the pin E when the disk D is let down on the ribs A⁶, but only comes in register with said pin when the disk D is turned after it has reached the recess A⁷.

It will be seen that the device is very simple in construction, can be readily applied, and positively prevents refilling of the bottle unless the auxiliary neck A³ is broken off,

whereby the object is accomplished, that is, destroying the original bottle.

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

1. A bottle-closure comprising an auxiliary neck, a stopper adapted to be pressed in said neck, a plate held on the top of said stopper and supporting a second plate, a locking-disk adapted to rest on the uppermost plate, and a spring-pressed pin held on said uppermost plate and adapted to engage an opening in said locking-disk, substantially as shown and described.

2. A bottle-closure comprising an auxiliary neck having vertical ribs on the inner face of its wall, and an annular recess formed by cutting out portions of said ribs, a stopper held in said neck, a plate resting on said stopper, a second plate supported above the first-named plate, a locking-disk having notches adapted to engage said ribs, and a spring-pressed pin held on the uppermost plate and engaging an aperture in said disk, substantially as shown and described.

3. A bottle having an auxiliary neck connected to the main neck by a frangible web, a stopper held in the auxiliary neck, a plate supported on the stopper and within the neck, a spring-pressed pin carried by the plate, and a locking-disk capable of being locked with the neck and having a recess receiving the spring-pressed pin, substantially as described.

4. A bottle having a neck, a stopper held in the neck, a plate supported on the stopper, a spring-pressed pin carried by the plate, and a locking-disk capable of being locked with the neck of the bottle and having a recess receiving the spring-pressed pin, substantially as described.

5. A bottle, the neck of which is formed with an interior vertical rib, a stopper within the neck, a plate sustained on the stopper and also within the neck, a spring-pressed pin carried by the plate, and a locking-disk formed with a notch capable of receiving the rib on the neck, the locking-disk being also capable of movement to engage the rib whereby the disk is locked and the locking-disk having a recess receiving the spring-pressed pin, substantially as described.

6. A bottle, the neck of which is formed with an interior and vertically-extending rib, a stopper within the neck, a plate rested on the stopper, pins secured to the plate and rising from the same, a second plate sustained on the pins, a movable spring-pressed pin carried by the second plate, and a locking-disk having a notch capable of receiving the rib on the neck of the bottle and also having a recess capable of engaging the spring-pressed pin, substantially as described.

WILLIAM LAUDAHN.

Witnesses:

CHARLES E. MALLETT,

HARRY E. LUTZ.