

No. 886,619.

PATENTED MAY 5, 1908.

C. J. LUNDQUIST.
BOTTLE OR JAR CLOSURE.
APPLICATION FILED MAR. 11, 1907.

Fig. 1.

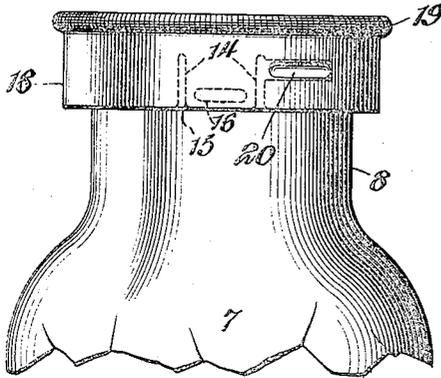


Fig. 2.

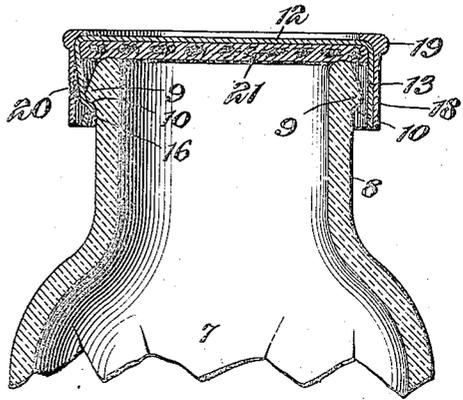


Fig. 4.

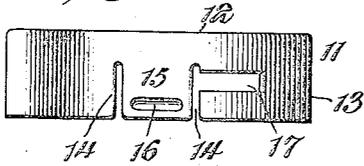


Fig. 3.

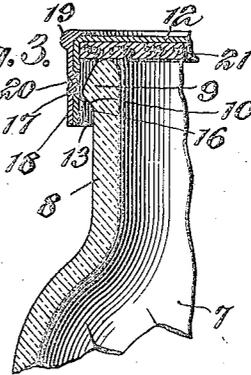


Fig. 5.

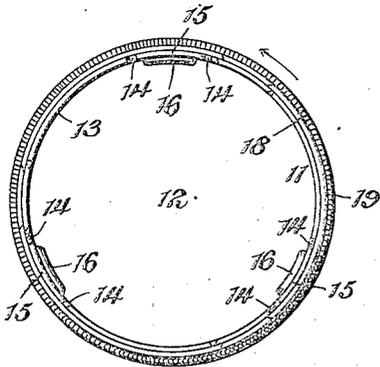
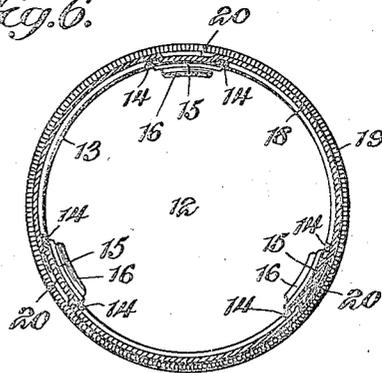


Fig. 6.



Witnesses

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UNITED STATES PATENT OFFICE.

CARL JOHAN LUNDQUIST, OF NEW BRUNSWICK, NEW JERSEY, ASSIGNOR OF ONE-HALF TO ALFONZ LINDERBLAD, OF NEW BRUNSWICK, NEW JERSEY.

BOTTLE OR JAR CLOSURE.

No. 886,619.

Specification of Letters Patent.

Patented May 5, 1908.

Application filed March 11, 1907. Serial No. 361,798.

To all whom it may concern:

Be it known that I, CARL JOHAN LUNDQUIST, a subject of the King of Sweden, residing at New Brunswick, in the county of Middlesex and State of New Jersey, have invented a new and useful Bottle or Jar Closure, of which the following is a specification.

The invention relates to means for closing and sealing the mouths of jars, bottles and similar containers.

The principal object of the present invention is to provide a novel, simple and effective closure, which can be readily applied and detached, can be used over and over again, and when in place, constitutes a complete and effective closure and seal that is not liable to become accidentally loosened or detached.

The preferred embodiment of the invention is shown in the accompanying drawings, wherein:—

Figure 1 is a side elevation of the upper portion of a jar, showing the improved closure in position thereon. Fig. 2 is a vertical sectional view therethrough but showing the closure locked. Fig. 3 is a detail sectional view, but showing the closure unfastened or in a position to be removed from the jar. Fig. 4 is a side elevation of the closure member. Fig. 5 is a bottom plan view of the structure. Fig. 6 is a similar view with the closure member shown in section, and in locked position.

Similar reference numerals designate corresponding parts in all the figures of the drawings.

The jar or bottle, designated by the reference numeral 7, may be of any suitable structure, and the neck 8 thereof is provided with an outstanding annular rib 9, the lower shoulder 10, formed thereby, being preferably inclined.

The improved closure consists of a closure member 11 that is in the form of a cap having a top wall 12 and a depending annular flange 13 that surrounds the neck of the bottle, and extends below the rib 9 thereof. This flange is provided with sets of spaced transverse slits 14 defining between them a plurality of spring jaws 15 that have inset transversely disposed ribs 16 preferably formed by stamping the material of the jaws inwardly, as shown in Figs. 2 and 4. A slot 17 is formed in the flange at one side of each

jaw, and is disposed longitudinally of said flange, the said slots being above the ribs 16.

A clamping member is employed that is in the form of a ring 18 rotatably mounted on the flange 13 of the closure member and having an enlarged upper portion 19 that is preferably roughened. The ring extends over the jaws, as will be evident by reference to Fig. 1, and it is provided with inset actuating ribs 20 that are arranged to seat themselves in the slots 17, or to engage the outer portions of the jaws 15 accordingly as the ring is rotated. The closure member or cap preferably carries within it a suitable packing cushion 21 that comprises a disk of cork or other suitable material. In this structure, as long as the ribs 20 of the clamping member are located in the slots 17, the jaws will be alined with the remainder of the flange 13, and the device can be slipped freely upon or removed from the neck of a bottle, jar, or other suitable container. When in place thereon, however, if the ring is rotated so that the ribs 20 pass over the jaws 15, said jaws will be forced inwardly by said ribs, and the retaining ribs 16 of the jaws will engage the inclined shoulder 10 of the annular rib 9 of the neck. Consequently, the closure member will be securely fastened upon the bottle neck, and the ribs 16 riding against the inclined shoulder 10, will draw the closure downwardly so that the upper edge of the neck of the bottle will be forced into snug engagement with the packing cushion 21, and an effective seal will thus be produced. To remove the closure, it is only necessary to rotate the ring in an opposite direction until the ribs 20 are returned into their respective slots 17, whereupon the jaws will swing outwardly, and the device can be detached. It will thus be evident that a simple closure is produced which will effectively seal the mouth of a jar or bottle, and which can be removed and replaced without in any manner injuring it.

From the foregoing, it is thought that the construction, operation, and many advantages of the herein described invention will be apparent to those skilled in the art, without further description, and it will be understood that various changes in the size, shape, proportion and minor details of construction, may be resorted to without departing from the spirit or sacrificing any of the advantages of the invention.

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

5 1. A closure of the character described, comprising a closure member having a depending flange provided with a jaw and a slot located at one side of the jaw, and a clamping device rotatably mounted on the closure member and having an inset rib that
10 is movable between positions in the slot and against the jaw.

2. A closure of the character described, comprising a closure member having a depending flange provided with spaced slits
15 and a longitudinal slot at one side of and in communication with one of the slits, said slits defining a yielding jaw between them, and a clamping ring rotatably mounted on the flange and having an inset rib that is
20 movable between positions in the slot and against the jaw.

3. A closure of the character described, comprising a closure member having a depending flange, including ring engaging jaws
25 and having slots between said jaws, a continuous ring completely covering and rotatable upon the flange, said ring having inset ribs movable between positions in the slots and against the jaws.

30 4. A closure of the character described, comprising a closure member having spaced jaws, said jaws being provided with inwardly stamped ribs at their lower ends, and a clamping ring rotatably surrounding the jaws and

having inwardly stamped ribs that operate 35 between positions in the spaces between the jaws and against the outer sides of said jaws.

5. A closure of the character described, comprising a closure member that consists of a cap having a depending flange, said flange 40 being slitted to define a plurality of spring neck engaging jaws, said cap having slots disposed at one side of the jaws, and a clamping ring rotatably mounted on the flange and having inset cam elements normally located 45 in the slots of the flange and movable against the jaws to urge the same inwardly.

6. A closure of the character described, comprising a closure member that consists of a cap having a depending flange, said flange 50 being transversely slitted to produce a plurality of jaws, and said jaws having ribs on their inner sides, the flange furthermore being provided with slots disposed at one side of the jaws, a packing cushion located inside 55 the cap, and a ring rotatably mounted on the flange and having inset cam ribs normally located in the slots of the flange and movable against the outer sides of the jaws to force the same inwardly.

In testimony that I claim the foregoing as my own, I have hereto affixed my signature in the presence of two witnesses.

CARL JOHAN LUNDQUIST.

Witnesses:

ALFONZ LINDERBLAD,
EDWARD W. HICKS.