

No. 882,549.

PATENTED MAR. 17, 1908.

E. D. CHELLIS.
CLOSURE FOR CONTAINING VESSELS.
APPLICATION FILED OCT. 9, 1907.

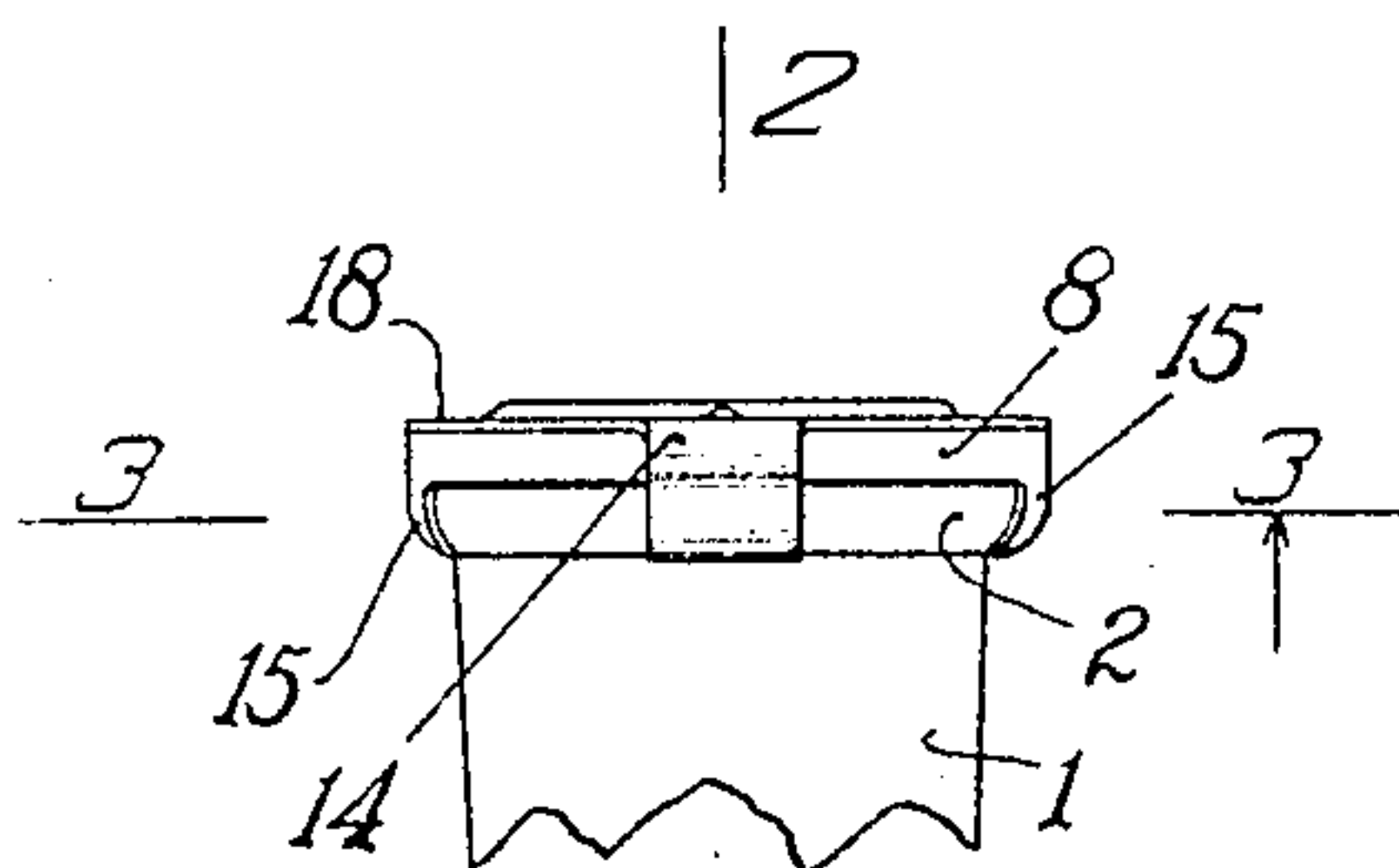


FIG. 1.

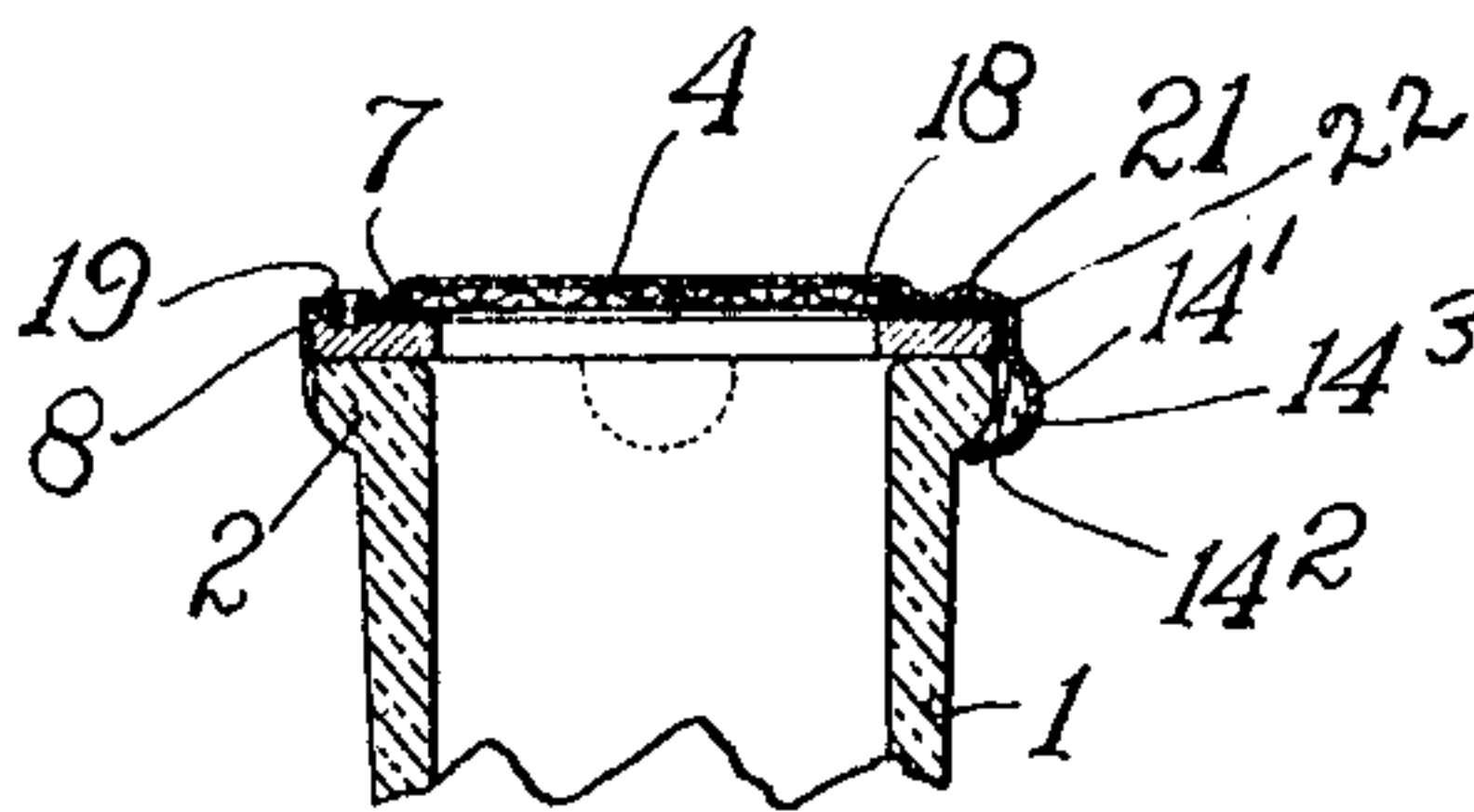


FIG. 2.

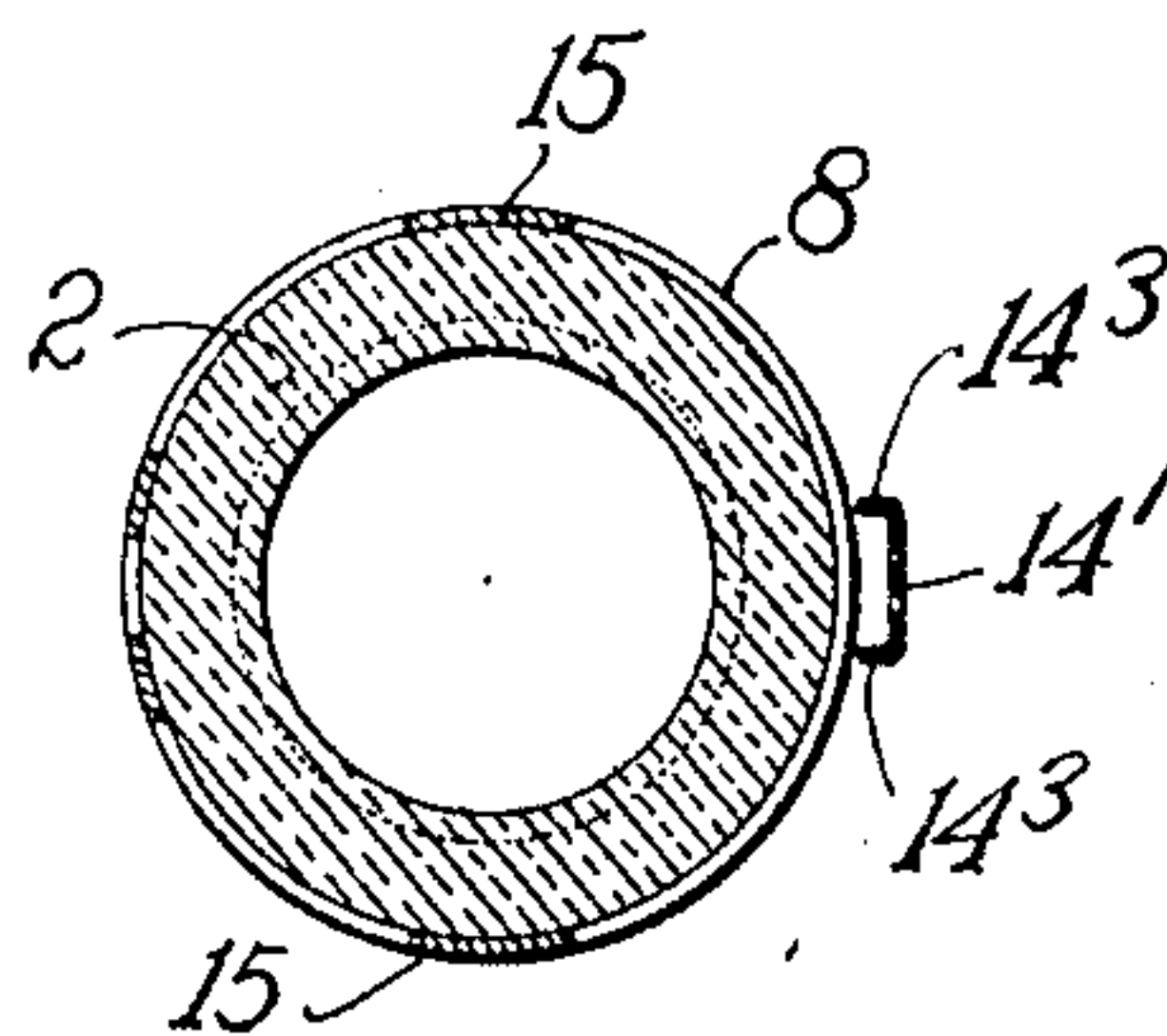


FIG. 3.

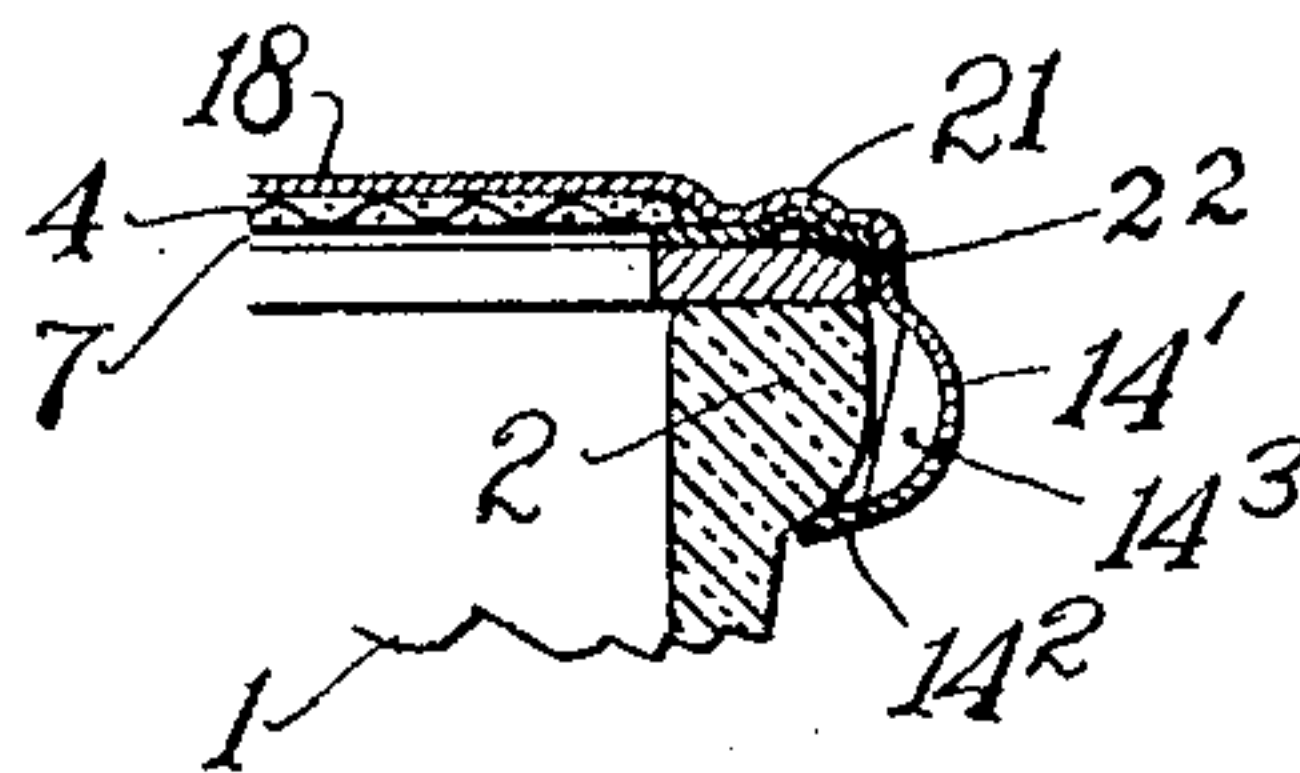


FIG. 4.

WITNESSES
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UNITED STATES PATENT OFFICE.

EUGENE D. CHELLIS, OF PORTLAND, MAINE, ASSIGNOR TO NATIONAL METAL SEAL COMPANY, OF PORTLAND, MAINE, A CORPORATION OF MAINE.

CLOSURE FOR CONTAINING VESSELS.

No. 882,549.

Specification of Letters Patent.

Patented March 17, 1908.

Application filed October 9, 1907. Serial No. 396,531.

To all whom it may concern:

Be it known that I, EUGENE D. CHELLIS, a citizen of the United States, residing at Portland, county of Cumberland, State of Maine, have invented certain new and useful Improvements in Closures for Containing Vessels, of which the following is a specification.

This invention relates to closures for vessels and more particularly to a bottle cap having a swinging cover which is to be held in a closed position tightly upon the bottle and yet which will be readily openable for access to the contents thereof. In this type of bottle cap it has been difficult to secure a means for locking the cover which would hold tight on ordinary stock bottles which vary slightly in size and form.

My present invention has for its object the provision of a bottle cap which will be firmly held in position when closed and which may be readily opened by slight pressure properly applied.

My invention will be more fully described in the specification which follows and is illustrated in the drawings which form a part thereof, in which drawings:

Figure 1 is a front view of my cap in closed position, Fig. 2 is a side sectional view on the line 2—2 of Fig. 1, Fig. 3 a transverse section on the line 3—3 Fig. 1, looking from below, and, Fig. 4 is an enlarged sectional detail of the locking lip and interengaging members.

1 is a bottle neck. 2 a shoulder formed about the mouth of the bottle.

7 is a cap plate provided with fingers 15 which are adapted to engage the shoulder 2. These fingers are preferably arranged on the rear of the cap and depend from a rim 8 formed on the cap plate 7.

18 is a cover pivoted to the cap plate at 19.

22 is a projection raised on the surface of the plate 7 and preferably located on the opposite side from the pivot 19.

21 is a corresponding recess depressed into the under side of the cover 18 and adapted to receive the projection 22.

14 is a spring lip preferably formed with a curved or bent portion 14¹ which gives to its point 14² a considerable degree of resiliency in its engagement with the shoulder 2 of the bottle.

14³ is a projecting flap or ear formed on the locking lip 14 and bent back towards the cover 18 to partially close the sides of the bent portion 14¹ and afford a bearing surface for the thumb or thumb nail in opening the cover so that the member will not be brought against the edge of the locking lip.

4 is an opening which may be of any description according to the nature of the contents which the bottle is adapted to receive.

The cap is applied to the bottle in the usual manner of applying any caps. This is accomplished by swinging open the cover 18 and applying the cap 7 fitted with a suitable washer to the mouth of the bottle by sliding it upon the same in such a manner that the fingers 15 will engage with the shoulder 2. After the cap is slid on to the bottle the rim 8 will snap down over the edge of the shoulder 2 so as to hold the cap 7 quite firmly in position on the mouth of the bottle. The cover 18 is then swung to until the locking lip 14 is brought opposite to the pivot 19, in which position the depression 21 in the lower side of the cap 18 will be sprung down over the projection 22 by the action of the resilient portion 14¹ of the locking lip 14. It will, therefore, be seen that the locking lip 14 will not only serve to hold the entire cap tight upon the mouth of the bottle but will also hold the cover 18 firmly against the plate 7 making of the cap a tight and perfect seal.

Various modifications may obviously be made in the form of the locking lip as well as in the fastening device.

What I therefore claim and desire to secure by Letters Patent is

1. A laterally swinging cover for a containing vessel having a bent vessel engaging lip, said lip having an inwardly turned side flange on its bent portion.

2. In a closure for a containing vessel having a shoulder about its mouth, a laterally movable cover and a spring locking lip on said cover comprising an arched section terminating in a shoulder engaging lip.

3. A closure for a containing vessel having a shoulder about its mouth, a laterally movable cover and a spring locking lip on said cover having an arched section terminating in a shoulder engaging lip and a seg-

mental guard on the side of the lip arch to cover the edge of the same.

4. A laterally swinging cover for a containing vessel having a shoulder about its mouth, and a spring locking lip thereon comprising an arched section terminating in a shoulder engaging lip.

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

EUGENE D. CHELLIS.

Witnesses:

GERRY L. BROOKS,
CHARLES MCCARTHY, Jr.