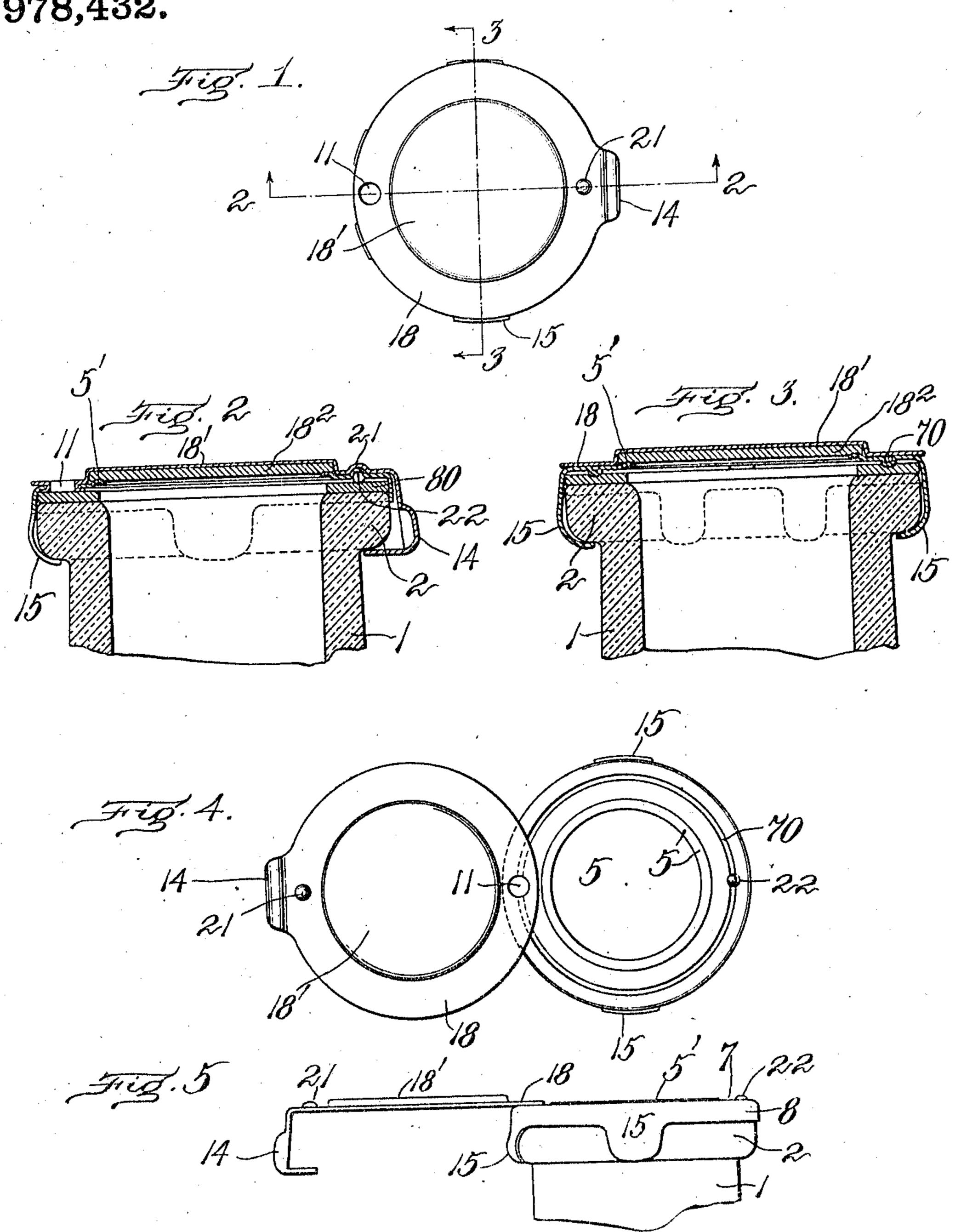
E. D. CHELLIS. CLOSURE FOR CONTAINING VESSELS. APPLICATION FILED MAR. 27, 1908.

978,432.

Patented Dec. 13, 1910.



Witnesses: It. C. Bowser. Koran G. Small

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UNITED STATES PATENT OFFICE.

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CLOSURE FOR CONTAINING VESSELS.

978,432.

Specification of Letters Patent. Patented Dec. 13, 1910.

Application filed March 27, 1908. Serial No. 423,724.

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.

fication. This invention relates to closures for con-10 taining vessels and particularly to such closures as are provided with a cover which seal a delivery opening in a cap which is attached to the mouth of the vessel. In closures of this sort which are to be opened 15 and shut frequently it has been difficult to maintain completeness of seal so that the cover would at all times maintain a tight fit over the opening through which the contents of the vessel would pass when open 20 and this is particularly true in use with vessels containing liquids or evaporable substances. To the end, therefore, of providing a closure adapted to secure and maintain a completeness of seal I have devised my pres-25 ent invention in which I have secured the desired results by a certain manner of arrangement of parts affording a peculiar and certain contact all of which will be more fully described hereinafter in the specifica-30 tion which follows and which I have illustrated by drawings showing an embodi-

In these drawings, which are made a part of the specification by references employing like numerals to indicate corresponding parts, Figure 1 is a plan view of my closure with cover shut, Fig. 2 a section on the line 2—2, Fig. 1, Fig. 3 a section on the line 3—3, Fig. 1, Fig. 4 a plan view with cover open, and Fig. 5 a side elevation in the position shown in Fig. 4.

ment of my invention.

1 is a bottle neck having a shoulder 2 about its mouth.

7 is a cap plate surrounded by a depending circumferential flange 8 on which are located spring shoulder engaging fingers 15.

5 is a delivery opening in the cap plate 7 and 5 is an annular upturned flange surrounding said opening.

18 is a cover pivoted at 11 to the cap

plate 7 for lateral swinging movement thereon and 18¹ is a recess formed in the under surface of the cover 18 to receive a packing 18² which is adapted to overlie the opening 5 and bear upon the flange 5¹.

and adapted to yieldingly engage the shoulder 2 which lies below the vessel mouth and thus brings upon the cover a yielding pressure which slightly embeds the flange 5¹ in 60 the packing 18² of the cover making an absolute seal.

80 is an annular packing located within the flange 8 and adapted to be compressed on the mouth of the vessel by the plate 7 65 under the yielding influence of the spring fingers 15 which engage the shoulder 2.

21 and 22 are my usual locking catches formed in the cap and cover and 70 is my usual compression rib for the packing 80.

The nature of the cover packing and recess may be variously modified and the rib correspondingly changed all without departing from the spirit of my invention.

What I therefore claim and desire to se- 75 cure by Letters Patent is:

1. A closure for a containing vessel comprising a cap having a delivery opening therein, a cover on said cap having a recess adapted to overlie said opening, a packing 80 in said recess and an upturned flange about said opening and adapted to enter the recess

2. A closure for a containing vessel having a shoulder beneath its mouth compris- 85 ing a cap having a delivery opening therein, a cover on said cap having a recess, a packing in the recess adapted to overlie said opening and an upturned flange about said opening and adapted to enter the recess in 90 said cover to engage said packing and arresilient locking lip on the cover and adapted to engage the shoulder on the vessel.

3. A closure for a containing vessel comprising a cap having a delivery opening 95 therein, a cover on said cap having a recess in the cover, a packing in the recess adapted to overlie said opening and an upturned flange about said opening and adapted to enter the recess in said cover to engage said 106

packing and means for causing the yielding interengagement of said packing and said flange.

4. A closure for a containing vessel com-5 prising a cap having a delivery opening therein, a cover on said cap, a packing on the cover adapted to overlie said opening, an upturned flange about said opening and

means for retaining the flange and packing

in yielding engagement.

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

EUGENE D. CHELLIS.

Witnesses:

F. C. Montgomery,

J. M. Dunn.