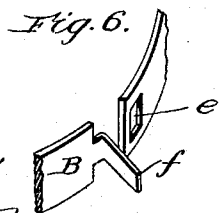
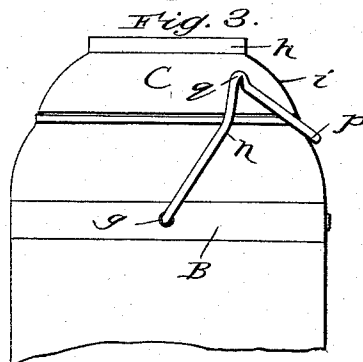
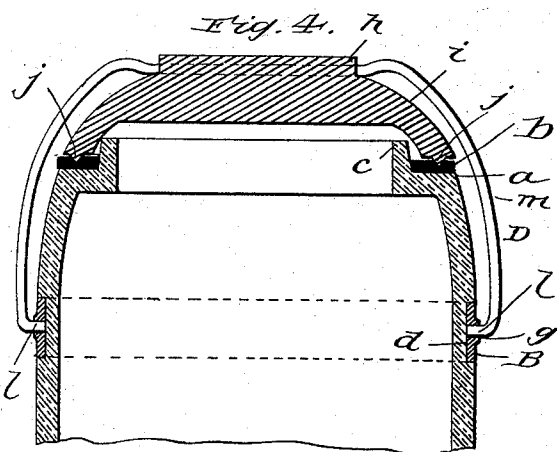
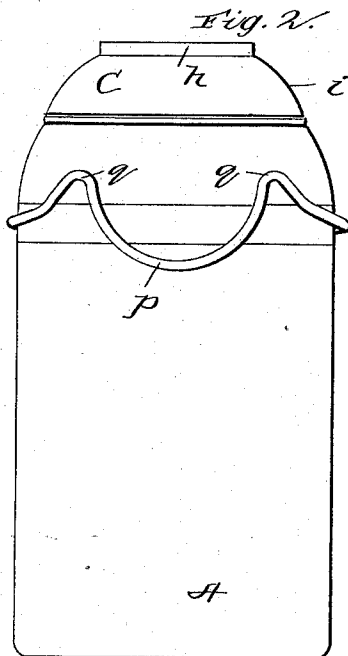
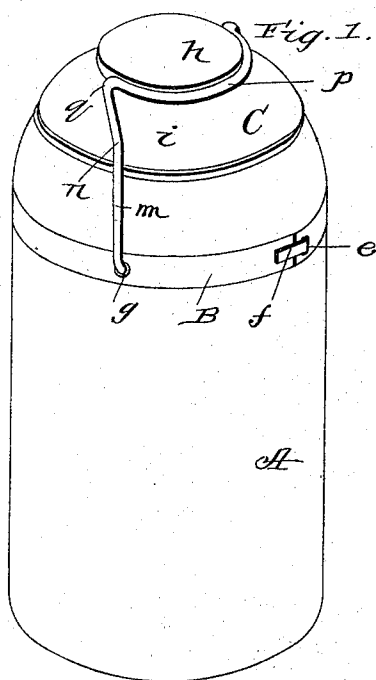


(No Model.)

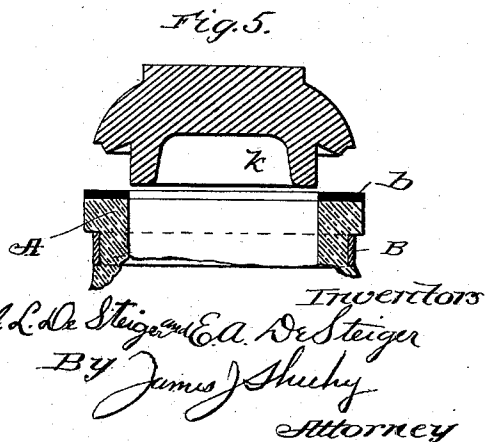
J. L. & E. A. DE STEIGER.
JAR OR BOTTLE COVER AND FASTENER.

No. 534,864.

Patented Feb. 26, 1895.



Witnesses:
C. H. Paeder
N. P. Matthews.



UNITED STATES PATENT OFFICE.

JOSEPH L. DE STEIGER AND EDWARD A. DE STEIGER, OF LA SALLE,
ILLINOIS.

JAR OR BOTTLE COVER AND FASTENER.

SPECIFICATION forming part of Letters Patent No. 534,864, dated February 26, 1895.

Application filed June 15, 1894. Serial No. 514,638. (No model.)

To all whom it may concern:

Be it known that we, JOSEPH L. DE STEIGER and EDWARD A. DE STEIGER, citizens of the United States, residing at La Salle, in the
5 county of La Salle and State of Illinois, have invented certain new and useful Improvements in Jar or Bottle Covers and Fasteners; and we do declare the following to be a full, clear, and exact description of the invention,
10 such as will enable others skilled in the art to which it appertains to make and use the same.

This invention has relation to an improvement in jars or bottle covers, and fasteners for the same, and the many objects and advantages will appear from the following description and claim when taken in connection
15 with the annexed drawings, in which—

Figure 1, is a perspective view of a jar with our improvements applied. Fig. 2, is a side elevation of the same with the fastener swung out of engagement with the cap or cover. Fig. 3, is a view taken at right angles to Fig. 2, with a part of the jar broken away, and the bail partly raised. Fig. 4, is a vertical, diametrical, sectional view with a part of the jar broken away. Fig. 5, is a vertical, sectional, detail view of a modification, with the cap or cover raised from the mouth of the jar; and Fig. 6, is a perspective detail view of the
20 25 30 metallic band for receiving the pivoted bail or fastener.

Referring by letter to said drawings: A, indicates a jar which may be mainly of the ordinary construction and formed from any suitable material. This jar may be provided at its mouth with an external, annular shoulder
35 a, to receive and seat a rubber band or gasket b, or the gasket b, may be placed on the top of the mouth as shown in Fig. 5, of the drawings, in which case the vertical flange c, of the mouth would be omitted. The jar or bottle as the case may be, is also provided circumferentially at a suitable point below the mouth, with a groove or recess d, to receive a metallic band B. This band B, which may be composed of sheet metal or other suitable material, is secured in the groove or recess d, and a convenient way of securing the ends of this band would be to provide one end thereof
40 45 50 with a hole or aperture e, and the other end with an integral tongue f, to take into said

hole or aperture, after which it may be turned upon itself as better shown in Fig. 1, of the drawings. This band is also provided at such points in its length with holes g, that when properly adjusted upon the jar or bottle, the holes will be disposed diametrically opposite each other to receive the ends of the fastening bail. In some cases however, holes or recesses may be formed in the jar to receive the
55 60 ends of the bail, when the metallic band would be dispensed with.

C, indicates the cap or cover. This cap which may be made of suitable material is provided on its outer side and top with an annular, raised portion or shoulder h, and from this shoulder, the top or cap is rounded to its edge as shown at i; the rounded portion having its swell gradually increasing from the lower edge to the shoulder, so that a gradually increasing pressure will be exerted by the bail when applied, until it reaches the annular shoulder h, where it will be stopped. This cap has its lower edge provided with a V-shaped rib or projection j, which is designed
65 70 75 to be forced into the upper gasket b, and as shown in Fig. 5, of the drawings, the cap may be provided with a depending, annular flange k, to take into the mouth of the jar or bottle.

D, indicates the bail. This bail is of a peculiar construction and may be composed of wire or the like, having its ends turned inward in opposite directions to form the angular branches l, which are received in the holes or apertures in the band and journal
80 85 or pivot the bail thereon. From these angular journal ends the material is curved inwardly as shown at m, (see Fig. 4,) so as to form thumb levers, and the said thumb levers which rest at a slight distance from the jar and cap or cover so as to permit of their being readily engaged by the thumbs of the operator, are provided at their outer ends with the inwardly directed bends n, which merge in turn into the loop p, which is disposed at approximately right angles to the thumb levers and is designed to engage the stop h, of the cap when in position thereon as will be presently described.

In operation, the bail when raised, first engages the rounded top of the cap at points
90 100 about midway between the stop h, and lower

edge by contacting at the bends *q*; and by reason of the loop *p*, there is sufficient give or resiliency to the bail to enable it to exert a constantly increasing pressure upon the cap
5 as the bail is forced toward the stop *h*, and greatly compress the gasket so as to effect a perfectly air tight closure of the jar. When the bail is entirely raised and the loop *p*, is in engagement with the stop *h*, of the cap there
10 is no liability of the bail being casually disengaged from the cap or cover, although it may be easily disengaged when desired by pushing the thumb levers in the proper direction.

Having described our invention, what we
15 claim is—

The combination of a jar, a band *B*, surrounding the jar and having journal apertures at diametrically opposite points, a packing ring or gasket arranged on the upper end

of the jar and surrounding the mouth thereof, 20 the cap or cover having the shoulder or stop *h*, on its top, and rounded from said shoulder or stop to its base and also having the annular rib or projection *j*, adapted to engage the packing ring or gasket, and the bail formed 25 from a single piece and comprising the thumb levers having angular branches journaled in the apertures of the band *B*, and the loop *p*, all substantially as and for the purpose set forth. 30

In testimony whereof we affix our signatures in presence of two witnesses.

JOSEPH L. DE STEIGER.
EDWARD A. DE STEIGER.

Witnesses:

W. S. MASON,
THOMAS JENSEN.