

L. F. BETTS.

Fruit-Jars.

No. 129,780.

Patented July 23, 1872.

FIG. 1.

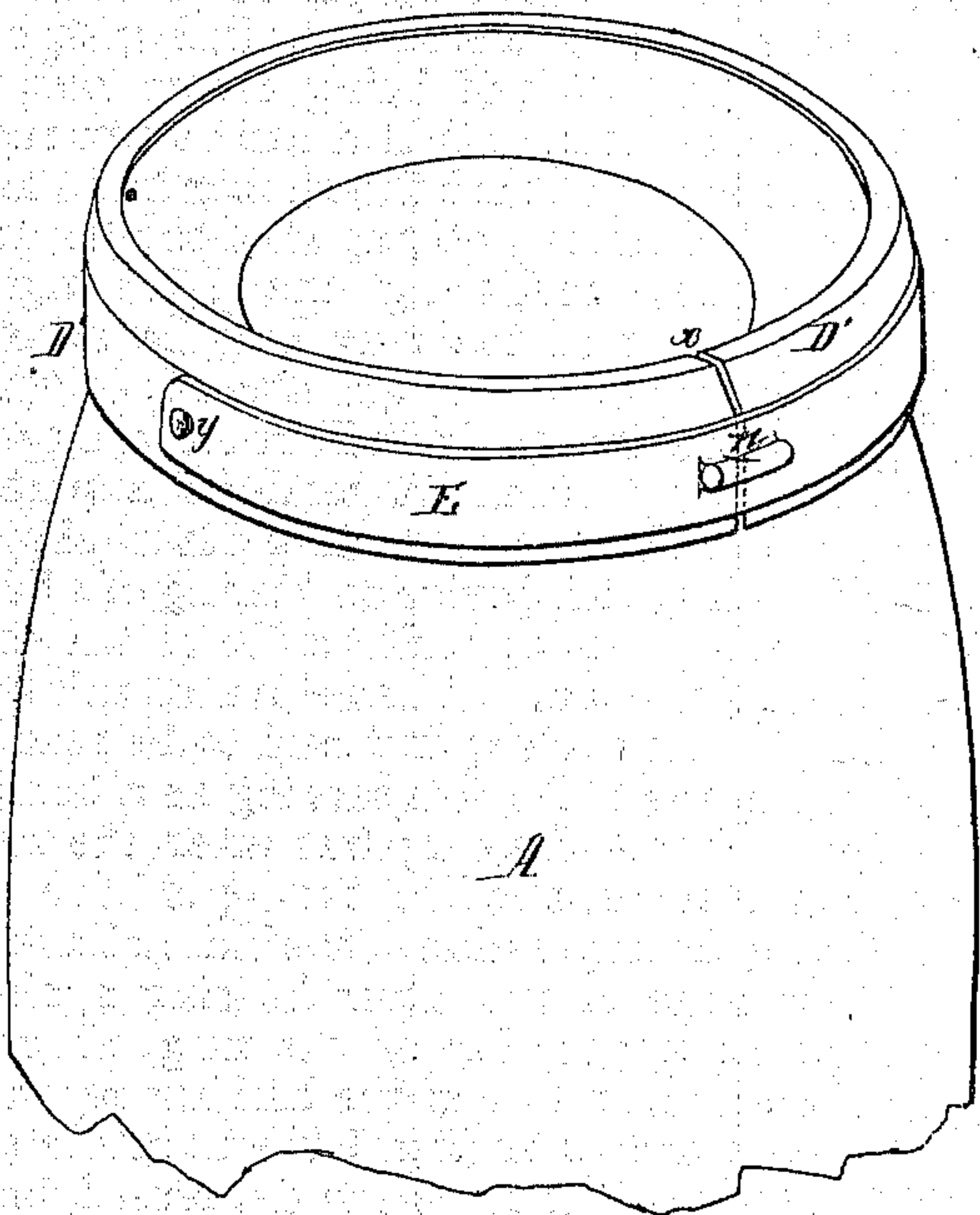


FIG. 2.

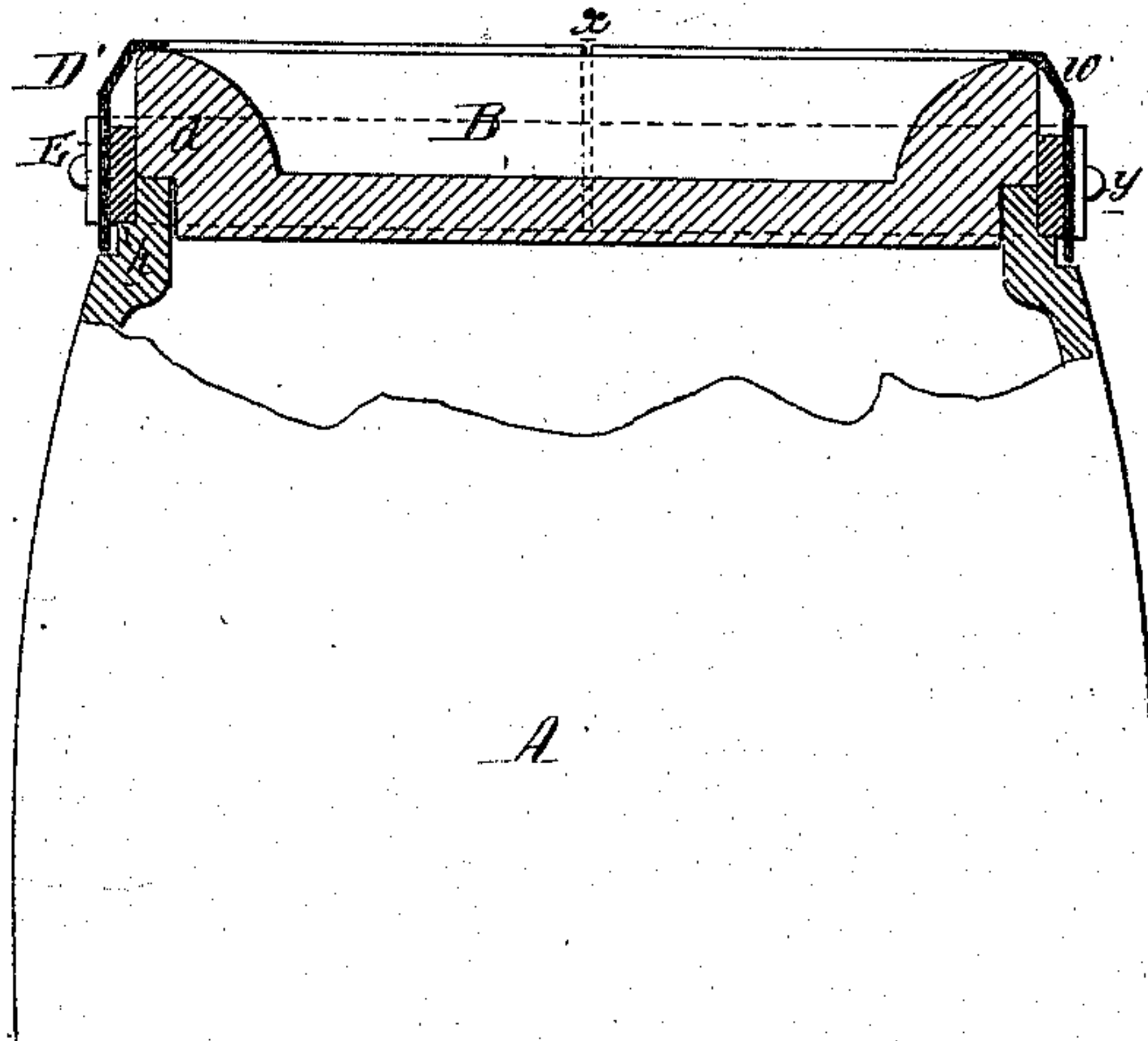


FIG. 3.

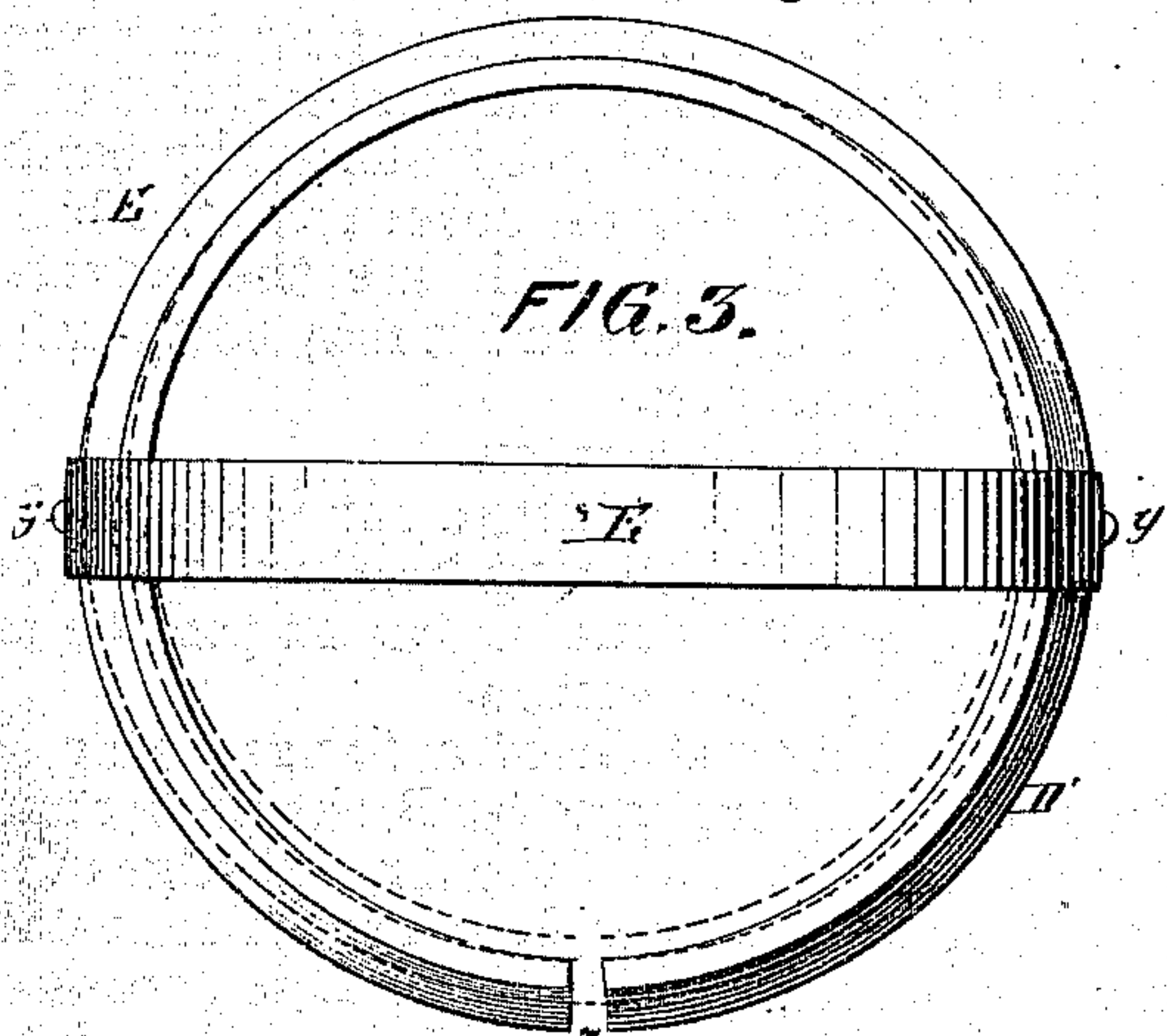
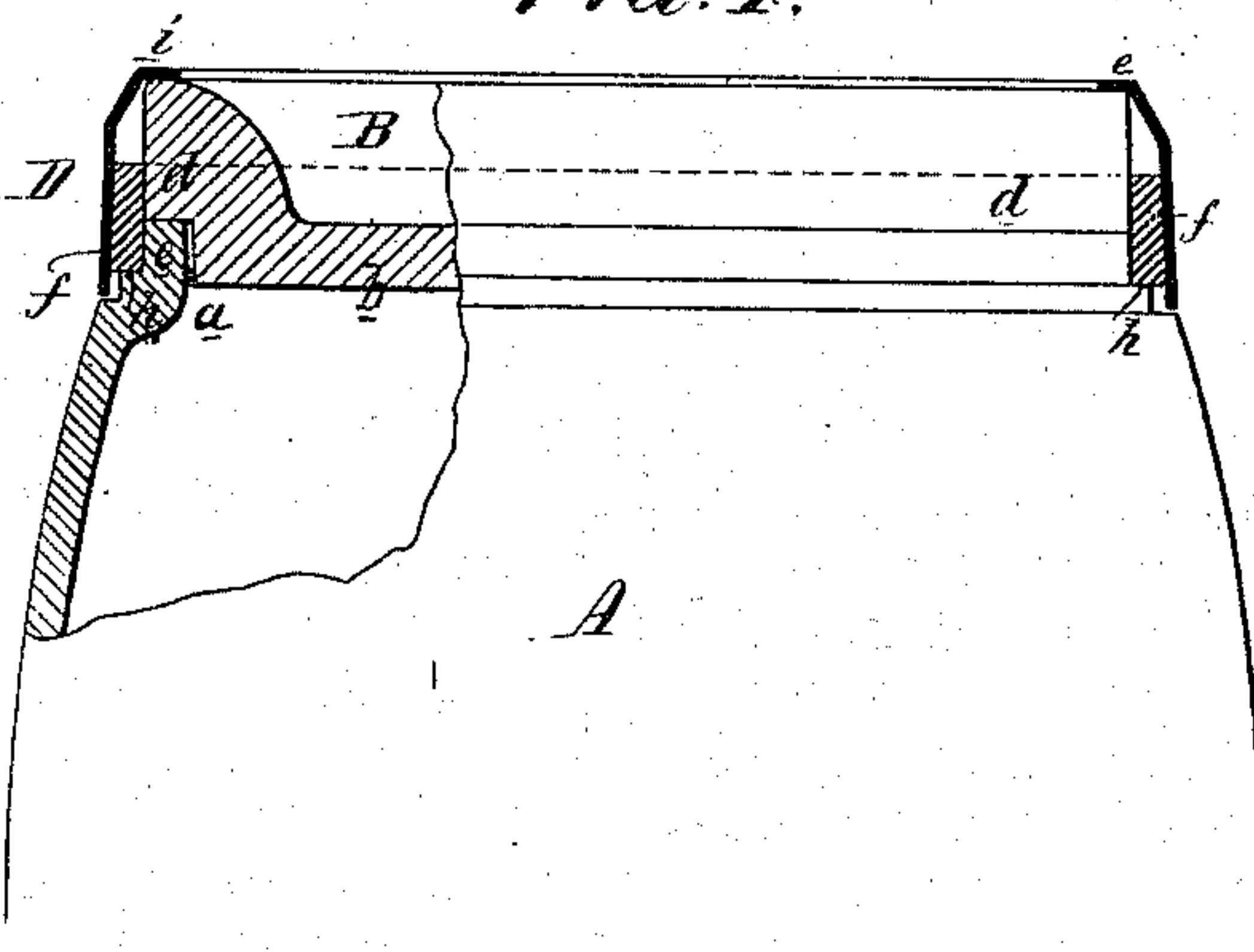


FIG. 4.



WITNESSES { Thomas M. Hoain
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Lewis F. Betts
by his Atty.
Hanson and son

UNITED STATES PATENT OFFICE.

LEWIS F. BETTS, OF PHILADELPHIA, PENNSYLVANIA.

IMPROVEMENT IN FRUIT-JARS.

Specification forming part of Letters Patent No. 129,780, dated July 23, 1872.

Specification describing certain Improvements in Fruit-Jars, invented by LEWIS F. BETTS, of Philadelphia, Pennsylvania.

Improvement in Fruit-Jars.

My invention consists of a fruit-jar in which the cap is confined to the jar by a flanged ring, which is retained in its position by a rubber band compressed between the ring and the jar. My invention also consists of a fruit-jar in which the said rubber band is compressed to the edge of the cover and top of the jar by means of a contractile ring or band, as described hereafter.

These are main features of my invention, which are too fully described hereafter to need preliminary description.

Figure 1 is a perspective view of the upper portion of my improved fruit-jar; Fig. 2, a vertical section of the same; Fig. 3, a plan view, and Fig. 4, a vertical section of a modification of my invention.

The simplest form of my invention is that represented by Fig. 4, where A is the upper portion of the jar, into the mouth *a* of which fits the projection *b* of the cover B, the latter being by preference made of glass, the flange *d* of the cover resting on the edge *e* of the mouth, and this edge and the cover being of the same or nearly the same diameter, and being encircled by a rubber band, *f*, which closes the joint between the cover and the jar, the lower edge of the band bearing on a shoulder, *h*, below the mouth of the jar. After the rubber band has been adjusted to this position a ring, D, of metal or other suitable material, is placed over all and depressed, and this ring, being slightly larger in diameter below than above, or, in other words, having a slight taper, when forced downward has a tendency to compress the rubber band against the edge of the cover and mouth of the jar, thereby rendering the joint perfectly tight. All tendency of the ring to depress the rubber band is resisted by the shoulder *h* on the jar. When the ring D has been depressed to its full extent an internal flange, *i*, formed at the upper edge of the ring, will bear against the top of the cover and thereby confine the cover, for

the tendency of the rubber is to retain the ring D in the position to which it has been depressed, and hence to retain the cover in its position. The ring D, however, and the cover can at any time be removed by a slight effort. In the modification illustrated in Figs. 1, 2, and 3 the upper edge of the jar, the cover, and the rubber band are the same as in Fig. 4; but the ring D', instead of being continuous, is split, as shown at *x*, so that it can be contracted and made to embrace the rubber band and compress the same tightly against the jar and cover, thereby rendering the joint tight. This contraction of the ring may be accomplished by simple wrappings of cord, or wire, or by other devices which will readily suggest themselves; but for reasons rendered apparent hereafter I prefer the contracting device shown in the drawing, this device consisting of a bail, E, hinged at *y y* to opposite sides of the contractile ring or band. When elevated this bail permits the ring to expand and to be readily withdrawn, the bail itself serving as a handle to effect this withdrawal; but after the ring has been again applied to the top of the jar and during the depression of the bail or handle, the lower edge of the latter bearing against the inclined upper edge of the ring will contract the same, and when the bail has reached the position shown in Fig. 1 it will retain the position to which it has been depressed, and, at the same time, retain the ring in its contracted condition and the rubber band in its compressed state, thereby effectually sealing the jar and securing the cover until the bail is again elevated. To facilitate the elevation and depression of the bail it may be furnished with a projection, *n*.

I claim as my invention—

1. A fruit-jar in which a cap is confined to the jar by a flanged ring bearing on the cap and compressing a rubber band upon the jar, substantially as described.

2. The combination of a flanged ring, D, having a slight taper, cover B, the rubber band *f* embracing the top of the jar and edge of the cover, and a shoulder, *h*, on the jar for retaining the rubber when the ring D is depressed.

3. The said tapering ring, having an inter-

nal flange, *i*, so that the ring will serve the twofold purpose of compressing a rubber band and confining the cover, as set forth.

4. A fruit-jar in which a rubber ring is caused to embrace the top of the jar and the edges of the cover by means of a contractile ring or band, substantially in the manner described.

5. The combination, substantially as de-

scribed, of the contractile ring or band with a bail, E.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

LEWIS F. BETTS.

Witnesses:

WM. A. STEEL,
LOUIS BOSWELL.