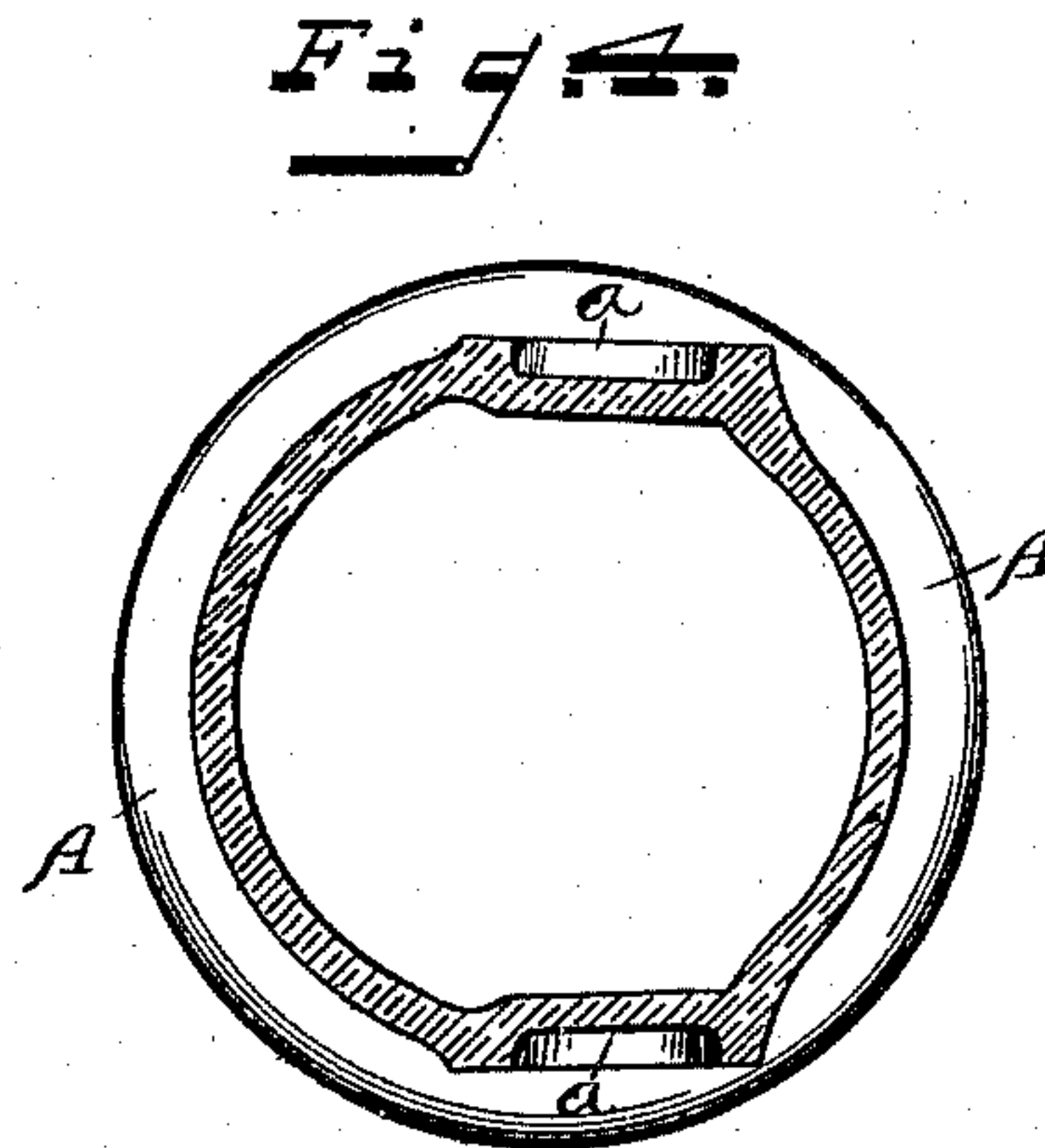
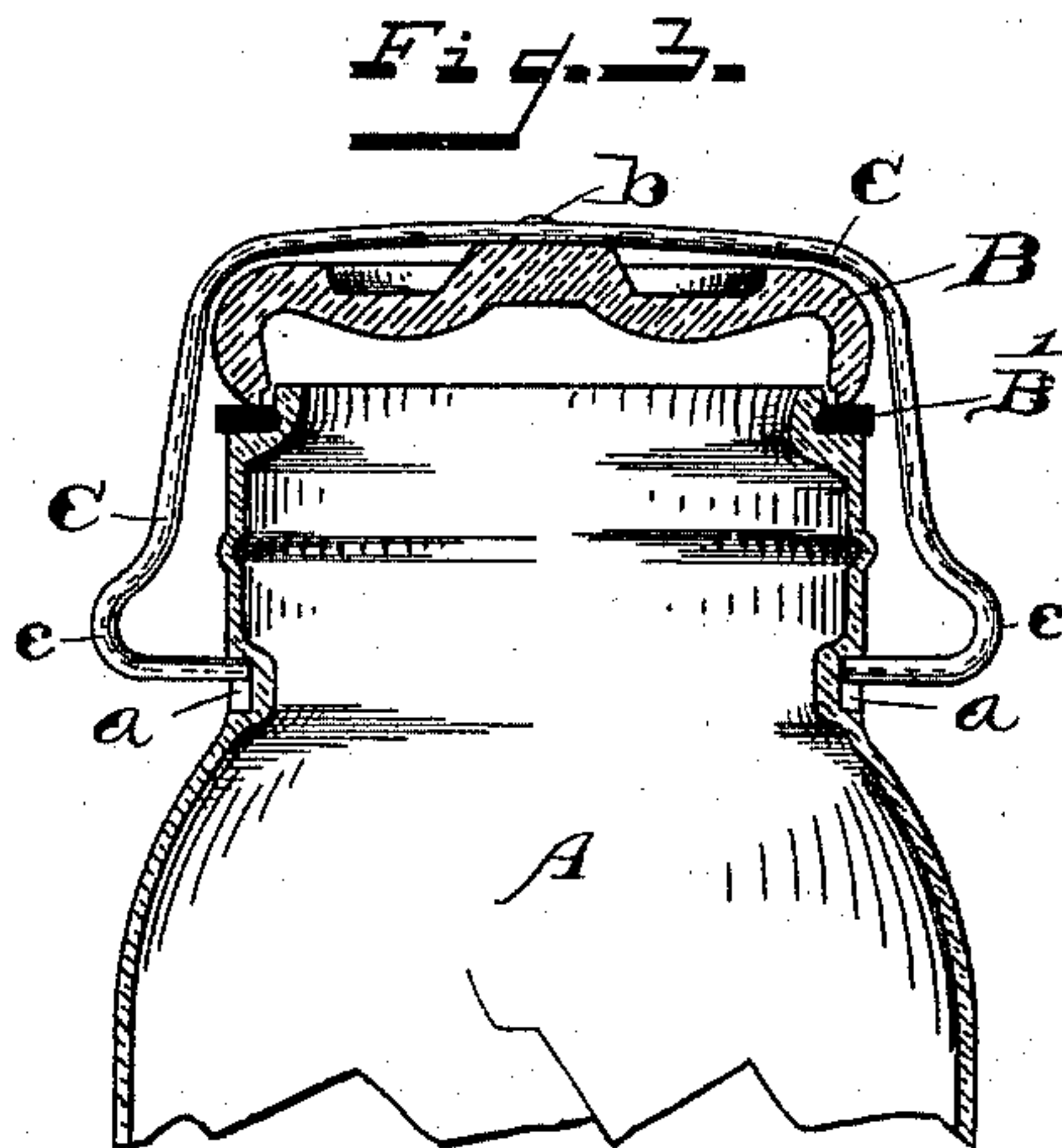
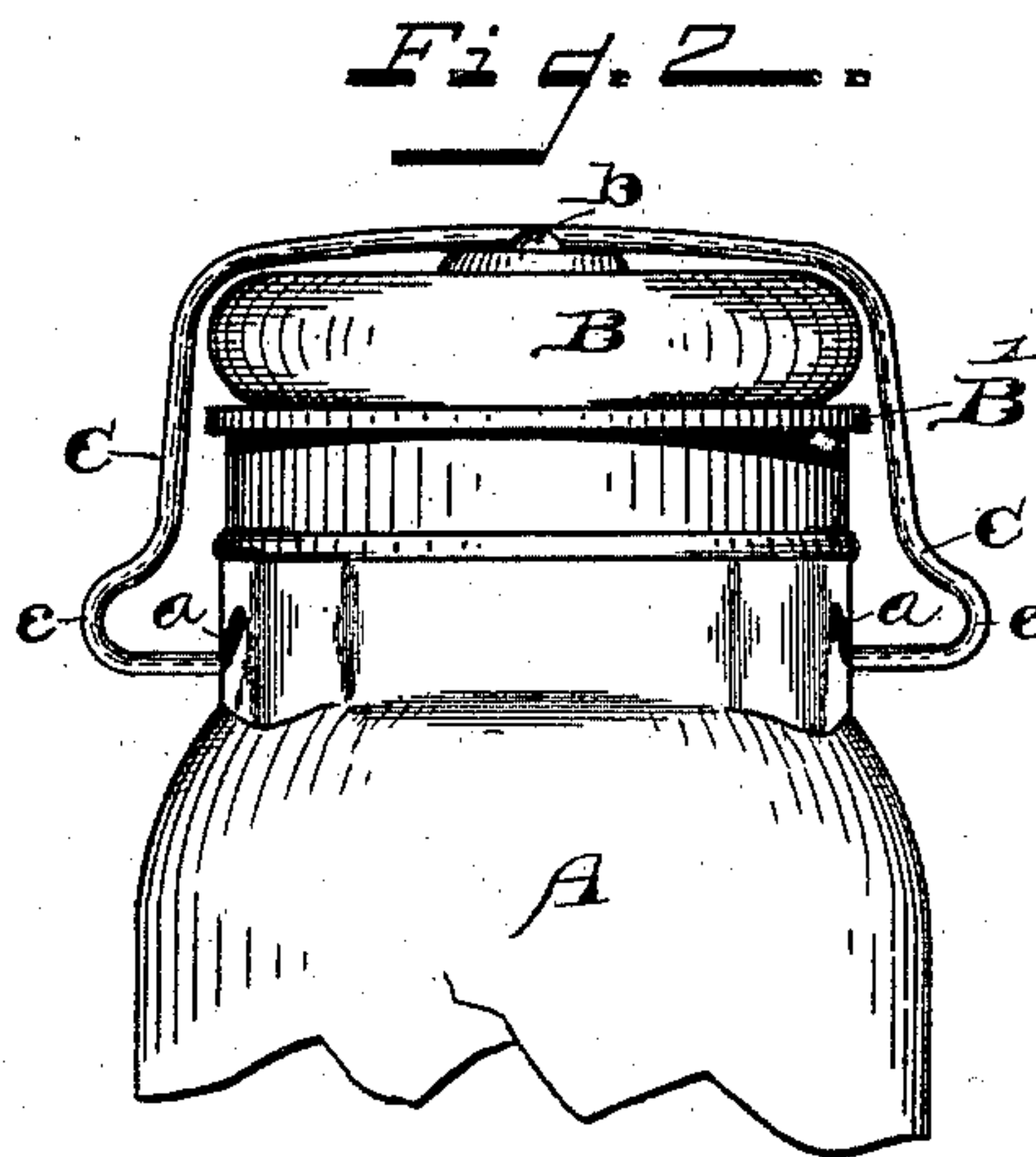
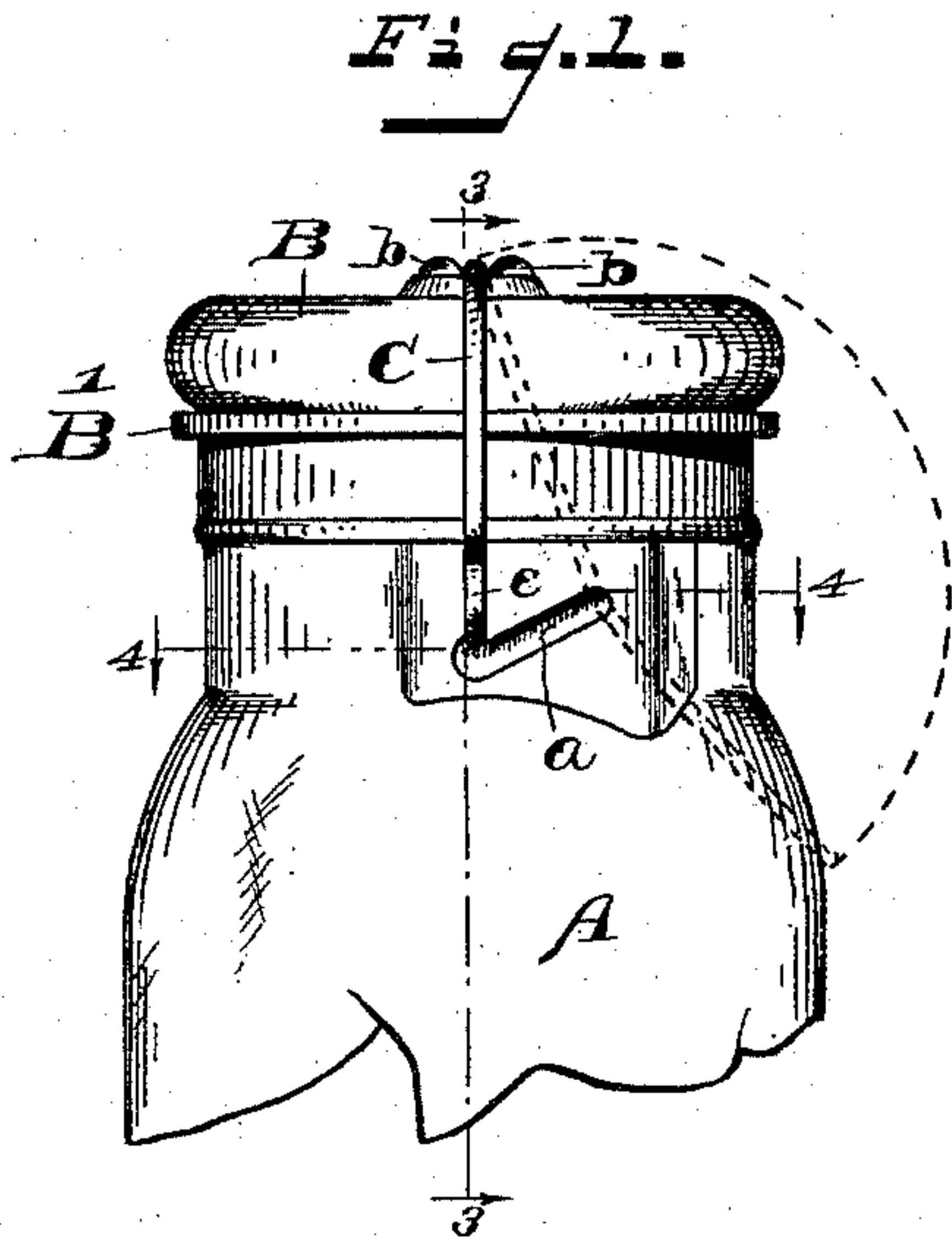


(No Model.)

I. P. NELSON.
JAR SEALING DEVICE.

No. 474,756.

Patented May 10, 1892.



WITNESSES:

F. M. Warner
J. A. Walsh

INVENTOR

per Irenaeus P. Nelson,
A. C. W. Bradford,
Associate ATTORNEYS.

UNITED STATES PATENT OFFICE.

IRENÆUS P. NELSON, OF MUNCIE, INDIANA.

JAR-SEALING DEVICE.

SPECIFICATION forming part of Letters Patent No. 474,756, dated May 10, 1892.

Application filed December 30, 1891. Serial No. 416,555. (No model.)

To all whom it may concern:

Be it known that I, IRENÆUS P. NELSON, a citizen of the United States, residing at Muncie, in the county of Delaware and State of Indiana, have invented certain new and useful Improvements in Jar-Sealing Devices, of which the following is a specification.

The object of my said invention is to provide a simple and effective device by which the covers of jars—such as fruit-jars and the like—may be easily and quickly secured in place and as easily and quickly removed, as will be hereinafter more particularly described and claimed.

Referring to the accompanying drawings, which are made a part hereof, and on which similar letters of reference indicate similar parts, Figure 1 is a side elevation of the upper portion of a fruit-jar embodying my said invention; Fig. 2, a front elevation of the same; Fig. 3, a vertical sectional view looking toward the right from the dotted line 3 3 in Fig. 1, and Fig. 4 a horizontal sectional view looking downwardly from the dotted line 4 4 in Fig. 1.

In said drawings, the portions marked A represent the body of the fruit-jar, B the cover thereto, and C a bail or loop by which the cover is secured in place.

The fruit-jar A is in general of substantially an ordinary and well-known form. Upon two opposite sides of its neck, however, the walls are formed of flat or straight portions which extend in the same direction and in substantially parallel planes from diametrically-opposite points, in which portions are formed grooves *a*, which start at a central point and incline upward uniformly toward the same side. At the extreme lower ends these grooves are enlarged somewhat on the upper side, forming notches which hold the ends of the bail firmly when forced into them. The operation will be further described in connection with the description of the bail. As shown most plainly in Fig. 4, the flattened sides, being nearly or substantially parallel, are calculated to retain the inturned ends of the bail C in said grooves regardless of their position therein.

The cover B is for the most part of an ordinary form and rests upon the top of the jar, forming a cover or stopper therefor, as usual.

Interposed between it and the bearing-surface on the neck of the jar is the usual annular soft-rubber ring B', whereby a perfectly airtight joint is secured. Centrally this cover has slight projections *b*, between which the central portion of the bail rests when the parts are assembled and which aid in holding them in position.

The bail C is bent out of a single piece of wire, and when the parts are assembled, as when the jar is closed, it extends from the grooves *a* around over the top of the cover between the projections *b*, with its turned-in ends resting in said grooves or in the notches which form the termination thereof, as shown in the drawings. To provide the required elasticity, I prefer to bow this bail out somewhat at points just above the inturned ends which enter the grooves, as at *c*. The bail being made of spring-wire, this form provides all the elasticity necessary.

The operation is as follows: When the jar is open, the bail rests in the position shown by the dotted lines in Fig. 1. When it is desired to close the jar, the rubber ring B' and the cover B are put in place and the bail swung up, as indicated by the dotted lines, to a position where its center rests between the projections *b* on the top of the cover. The lower inturned ends of the bail are then forced down the grooves *a* to the lower ends of said grooves, where they spring into the notches in the upper sides thereof, as shown by the full lines in Fig. 1, which is the final position in closing and sealing the jar.

Among the things which contribute to perfection of operation in my invention are the form of the grooves, which are substantially parallel and extend in a uniformly-inclined direction from a substantially central point, the bowed-out form of the bail just above the inturned ends, which provides an elasticity or inherent spring force therein, and the notches and projections by which the bail is held in place when the jar is closed or sealed, and which, combined with said elasticity, also permit the ready disconnection and separation of the parts.

The device as a whole is extremely simple, consisting of the fewest possible number of parts, all of a plain and simple construction, is easily and quickly manipulated, is very

efficient, and is inexpensive. There is no twisting of any of the parts in manipulating them, as where the grooves extend in different directions or where there is but one groove, 5 but a simple sliding of the inturned ends or pivot-points of the bail and a swinging of said bail on said pivot-points constitute the whole operation.

Having thus fully described my said invention, what I claim as new, and desire to secure 10 by Letters Patent, is—

1. The combination of a jar having flattened portions on opposite sides of its neck containing inclined grooves extending in the same 15 direction from a central point, a cover, and a bail formed of a single piece of wire having inturned ends which enter said grooves, and bowed-out portions which provide an inherent spring force which extends up over and secures said cover in place, substantially as set 20 forth.

2. The combination, in a jar-sealing device, of the jar having flattened opposite sides to

its neck, inclined grooves therein extending in the same direction from a central point and 25 substantially parallel with each other, with notches in the upper sides of the lower ends of said grooves, a cover, and a bail having inturned ends which enter said grooves and which is adapted to pass up over said cover. 30

3. The combination, in a jar-sealing device, of a jar having flattened portions on two opposite sides of its neck containing inclined grooves which extend in the same direction 35 from diametrically-opposite points, and a bail having inturned ends which enter said grooves, and a cover having a rest on its top on which the central portion of said bail will rest when the parts are assembled together.

In witness whereof I have hereunto set my 40 hand this 14th day of December, 1891.

IRENÆUS P. NELSON.

Witnesses:

J. D. WILLIAMS,
JNO. E. REED.