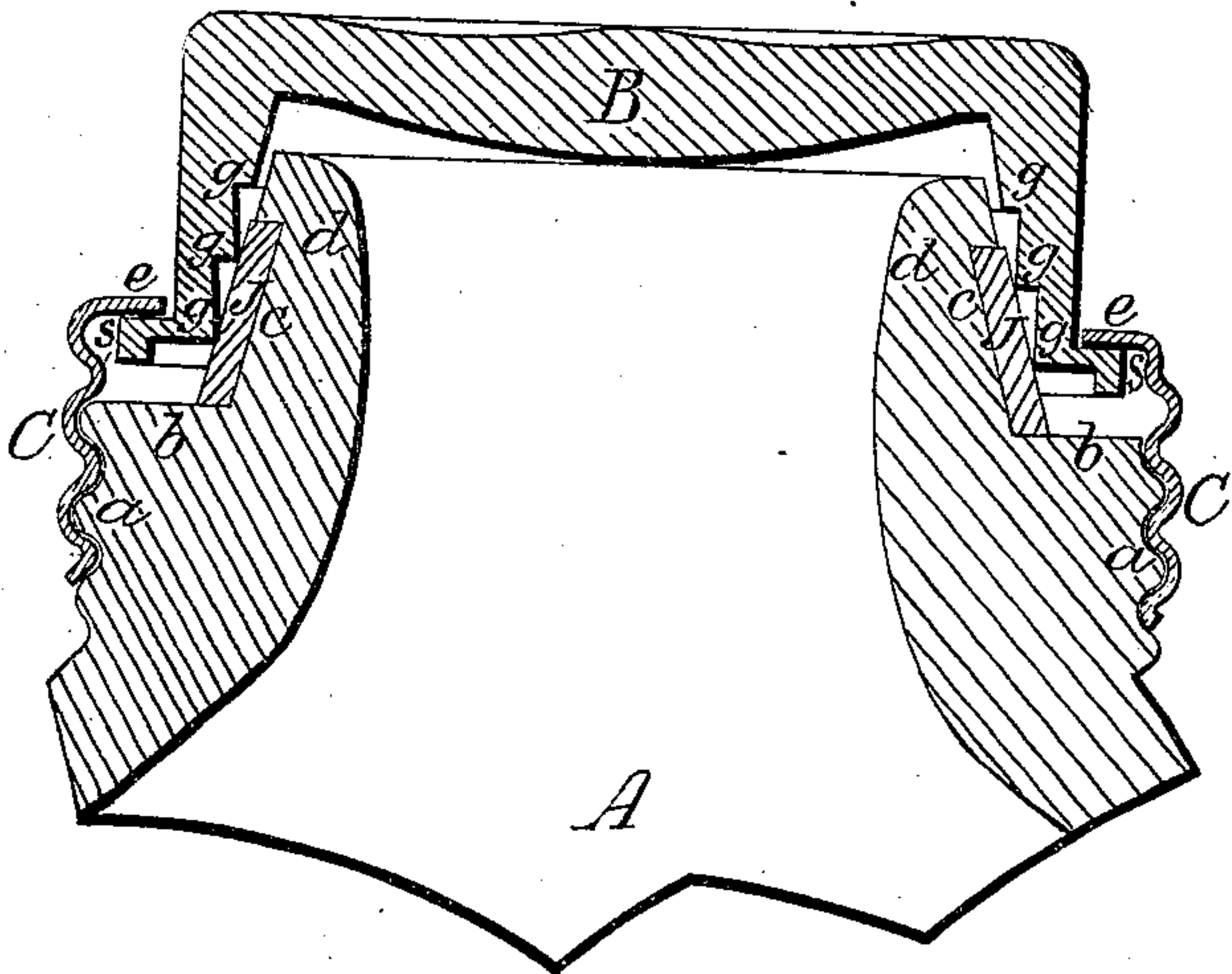


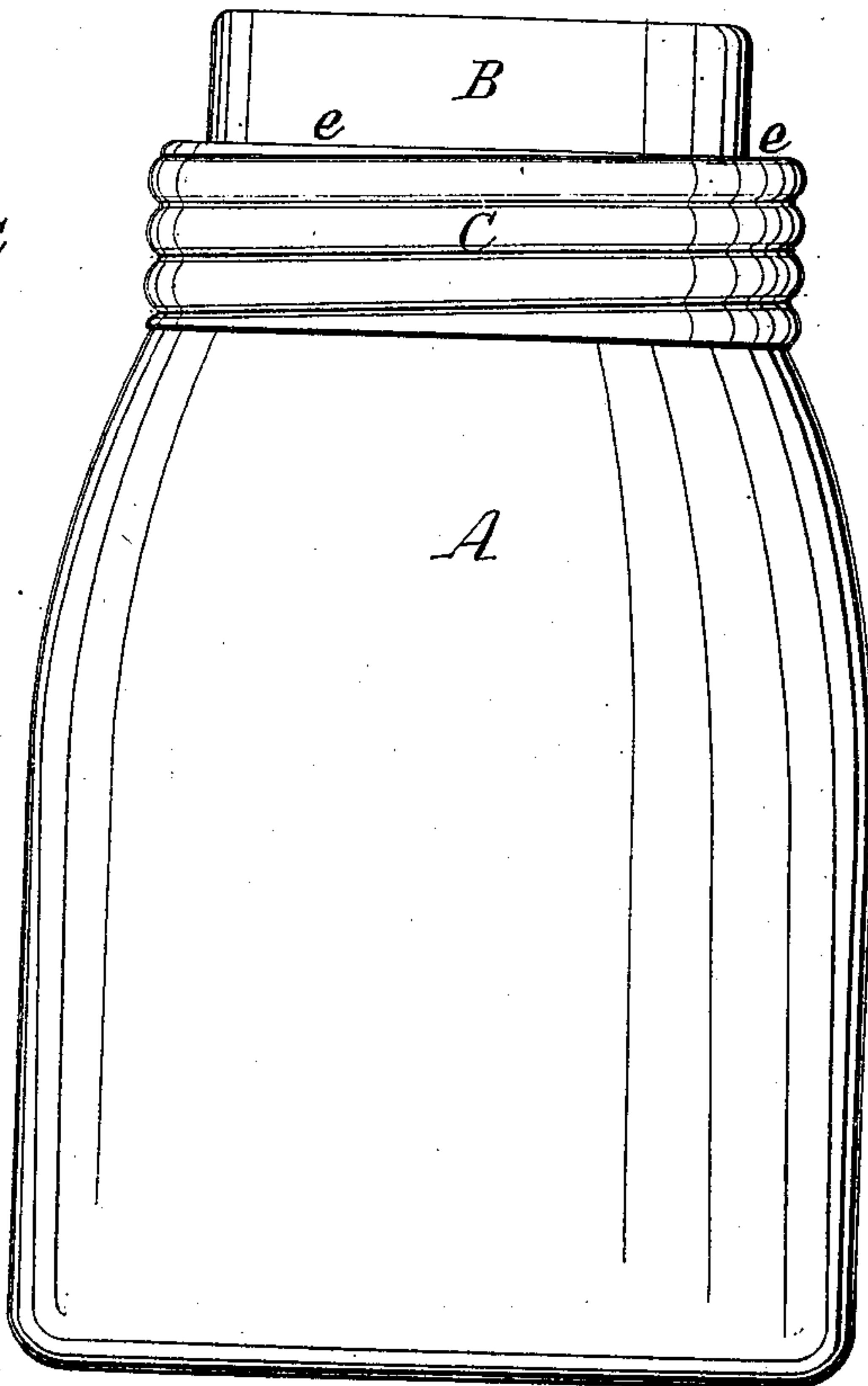
*J. L. Mason.*  
*Fruit Jar.*

*N<sup>o</sup> 100,300.*  
*Fig. 1.*

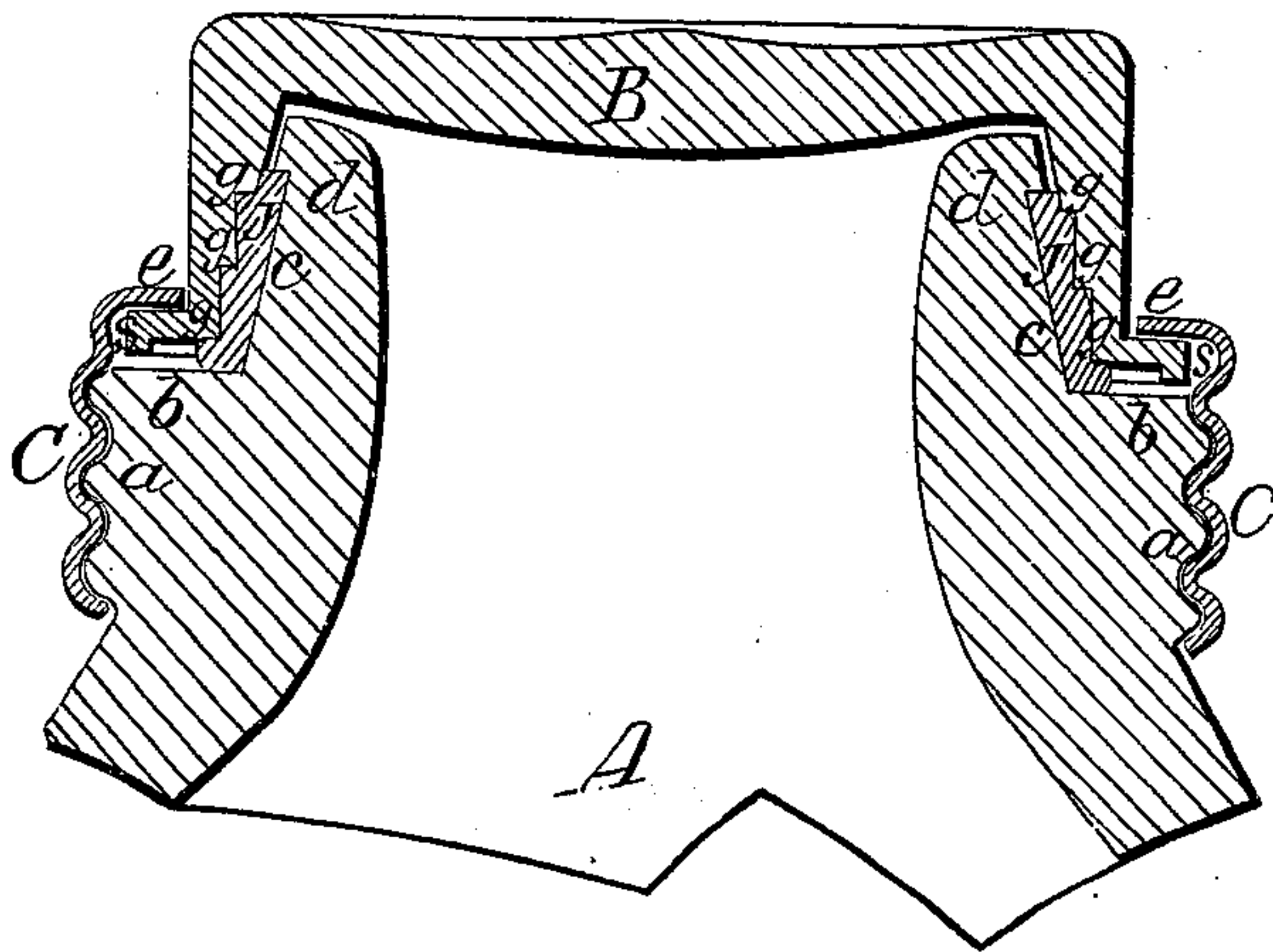
*Patented Mar. 1, 1870.*



*Fig. 2.*



*Fig. 3.*



*Witnesses*

*R. V. Campbell.*  
*J. A. Campbell.*

*Inventor:*

*John L. Mason*  
*by*  
*Mason Sewick & Lawrence*



# UNITED STATES PATENT OFFICE.

JOHN L. MASON, OF NEW YORK, N. Y.

## IMPROVEMENT IN FRUIT-JARS.

Specification forming part of Letters Patent No. 100,306, dated March 1, 1870.

*To all whom it may concern:*

Be it known that I, JOHN L. MASON, of the city and county of New York, and State of New York, have invented a new and Improved Mode of Sealing Preserve-Jars; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, making part of this specification, in which—

Figure 1 is a diametrical section through the upper portion of a preserve-jar with cover applied, but not forced down upon it. Fig. 2 is an external view of the jar with the cover confined in place. Fig. 3 is a similar view of the same parts shown in Fig. 1, with the cover confined in place.

Similar letters of reference indicate corresponding parts in the several figures.

This invention relates to an improvement on covers for preserve-jars, which have rubber gaskets confined in annular grooves made in external upwardly-tapering surfaces surrounding the mouths of the jars.

The nature of my invention and improvement consists in constructing the caps or covers for such jars with annular steps or ribs upon the inner surfaces of their rims, so that when these caps or covers are forced down in their places upon the rubber gaskets the angles of the ribs or steps will embed themselves in the rubber and produce tight joints, as will be hereinafter explained.

To enable others skilled in the art to understand my invention, I will describe its construction and operation.

In the accompanying drawings, A represents a preserve-jar, which is preferably made of glass or other vitreous substance, and which has a screw-thread, *a*, formed upon it, which terminates upwardly in a shoulder, *b*, from which rises a rib, *d*, that surrounds the mouth of the jar. The external surface of the rib *d* tapers upwardly, and has an annular groove, *c*, formed in it, which receives and confines in place an india-rubber gasket or packing-ring, J, as shown in Figs. 1 and 3.

The screw-thread *a* is adapted for receiving a metallic screw-ring, C, which has its upper edge turned inward at *e* to form a flange, which will receive under it an annular flange, *s*, upon the rim of cover B, and allow this cover to be forcibly drawn down and confined in place by means of said screw-ring.

The jar A, which I have above described, is constructed in a similar manner to the jar for which Letters Patent of the United States were granted to me on the 23d day of February, A. D. 1869; and I do not therefore claim under this petition such jar.

My improvement consists in constructing annular steps or angular ribs *g g* upon the interior surface of the rim of the cover B, which cover is preferably made of glass or other vitreous substance. These steps or ribs *g* present angular edges, and they increase in diameter from the closed to the open end of the cover, so that when the latter is put upon a jar, A, and forced down by the screw-ring C or its equivalent, each one of the steps or ribs will embed itself into the upwardly-tapering surface of the gasket J, as shown in Fig. 3, and each rib will assist in producing a tight joint by compressing the gasket downwardly and inwardly.

In my Letters Patent numbered 87,274 the jar which I therein claimed was sealed by the compression of a rubber gasket between the rib *d* and shoulder *c*, the rubber swelling outwardly beneath the lower edge of the rim of the cover during the act of forcing the cover down in place. I now produce tight joints between the stepped surfaces *g* and the rib *d* at points above the horizontal shoulder *b*, and upon the exterior of the jar, and employ the shoulder chiefly to prevent the gasket from slipping down while applying the cover.

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

1. A cover or cap, B, having parallel annular stepped surfaces or ribs formed upon the inner surface of its rim, adapted for a preserve-jar, constructed substantially as described.

2. The combination of the cover having parallel annular stepped surfaces *g g*, with the screw-ring C, gasket, and jar, substantially as and for the purpose described.

Witness my hand in the matter of my application for Letters Patent for an improved preserve-jar.

JOHN L. MASON.

Witnesses:

JULIUS HIRSCH,  
R. T. CAMPBELL.