

John L. Mason

Fruit-Jar.

No. 87,274.

Patented Feb. 23. 1869.

Fig: 3.

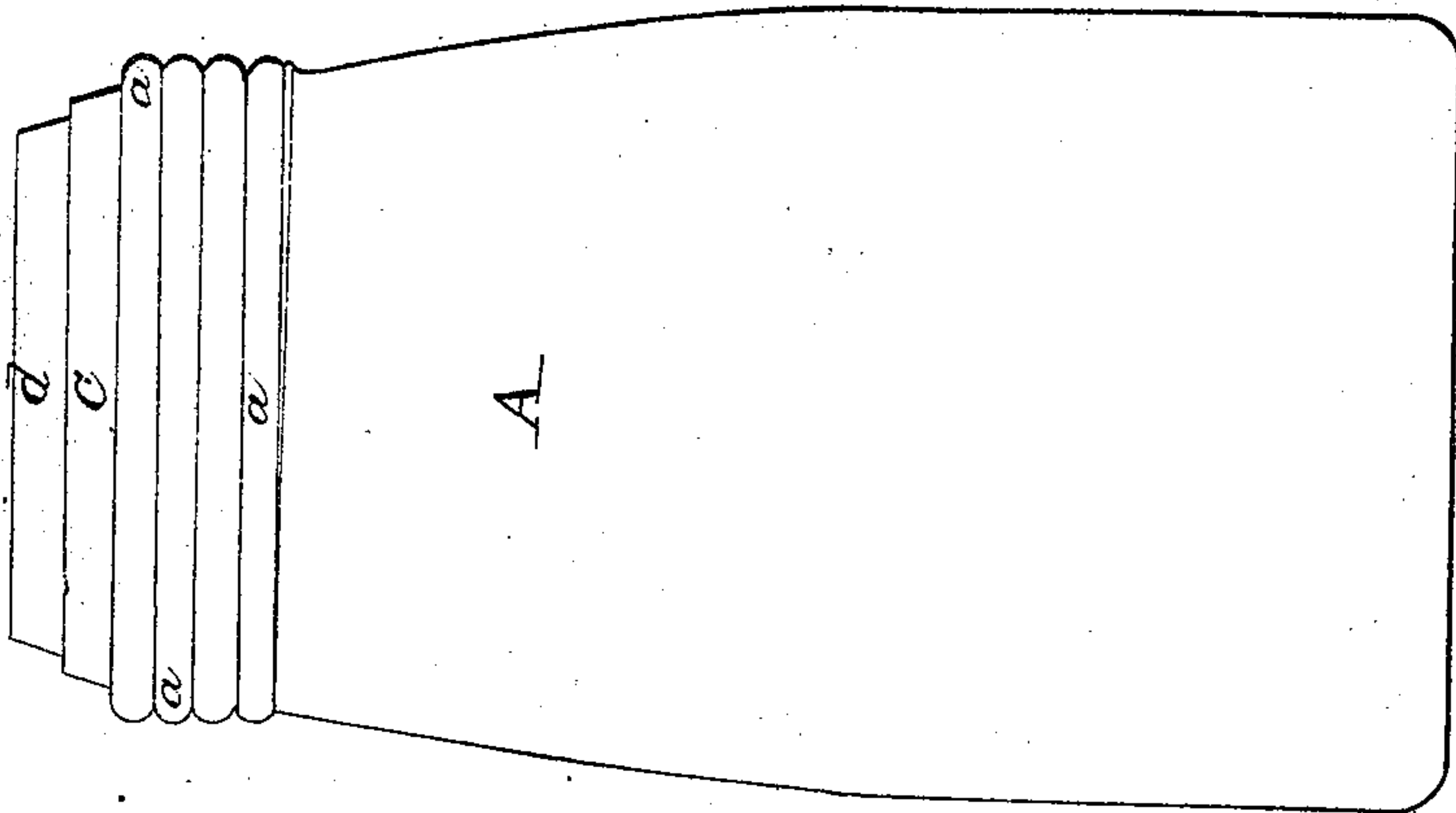


Fig: 2.

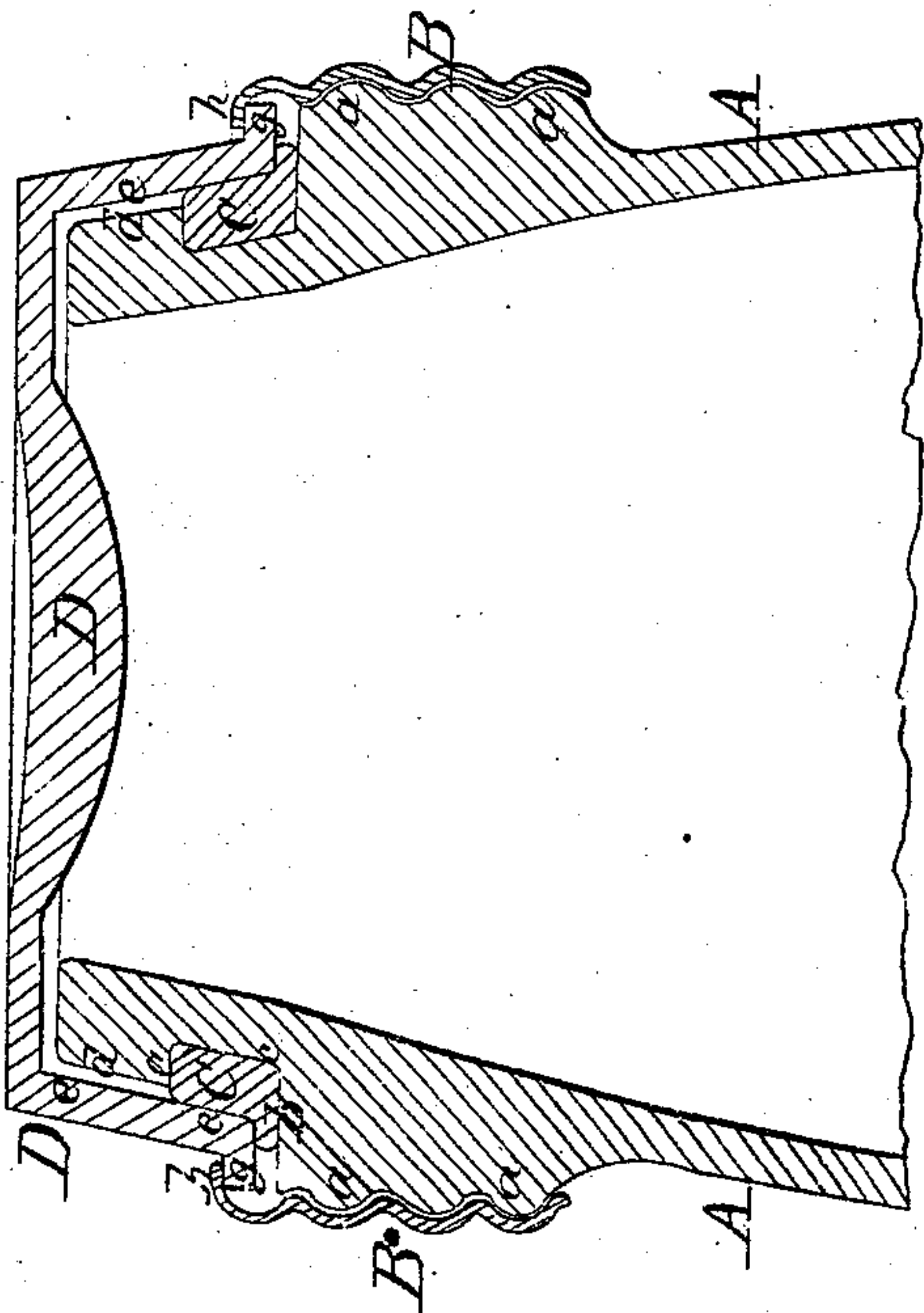


Fig: 4.

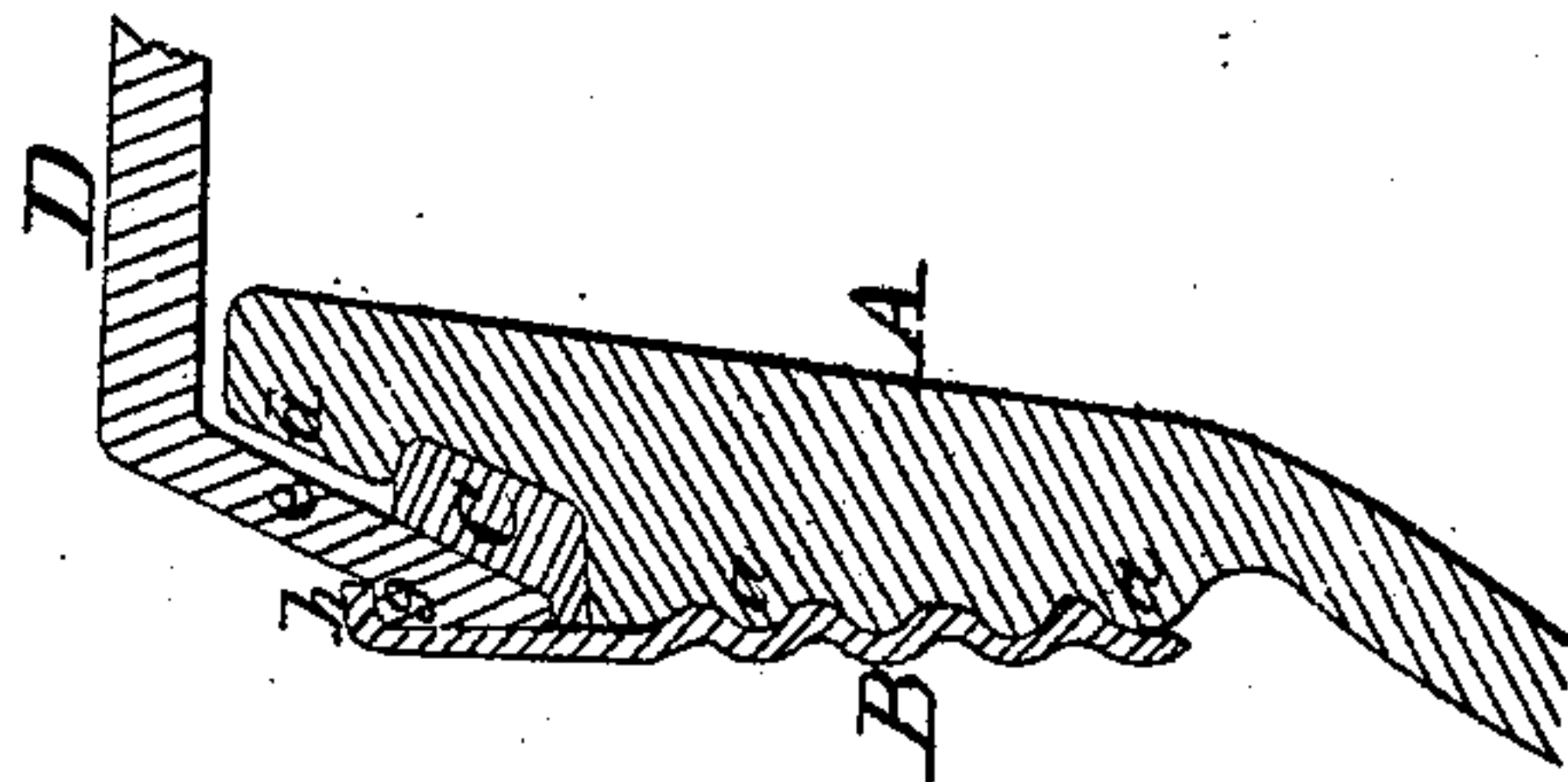
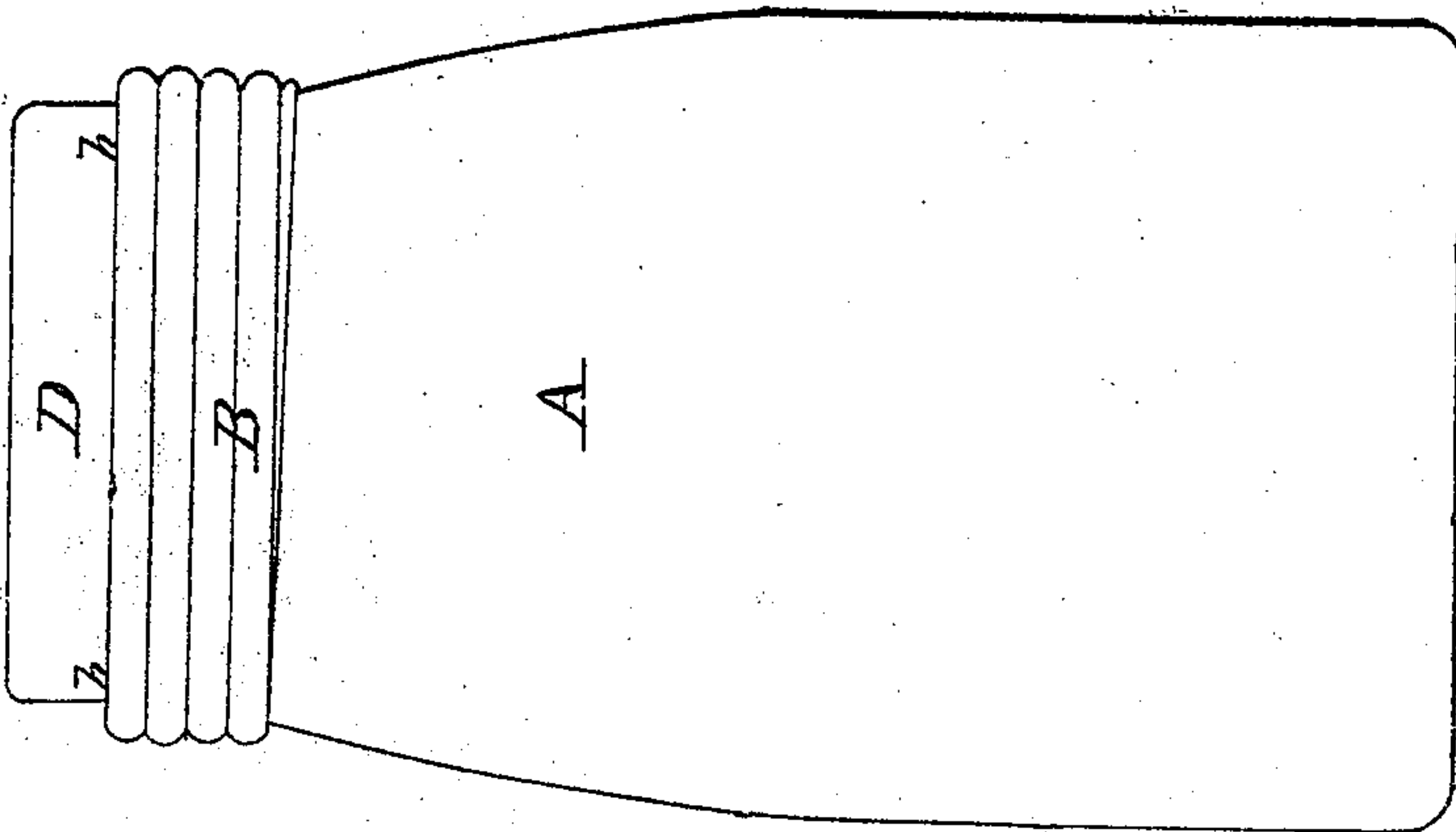


Fig: 1.



Witnesses.

R. T. Campbell.

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United States Patent Office.

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

Letters Patent No. 87,274, dated February 23, 1869.

IMPROVED FRUIT-JAR.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, JOHN L. MASON, of New York city, in the county and State of New York, have invented a new and useful Improvement in 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 a part of this specification, in which—

Figure 1 is a side elevation of a jar, with my improved cover upon it.

Figure 2 is an enlarged diametrical section through the jar, with its cover secured in place upon it.

Figure 3 is a side view of the jar, without its cover, but with the packing-ring in place.

Figure 4 is a detail section of a portion of a jar, having the flange surrounding its mouth, and the rim of its cover, considerably bevelled.

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

The nature of my invention consists in applying a rubber gasket-ring edgewise upon a horizontal shoulder, which is above a continuous screw, and having said ring so set against an oblique seat on the neck of the jar, in combination with a flanged jar-cover, of less diameter than the diameter to which the said ring can be compressed when on its seat, whereby, when the pressure of the screw-ring is made to act upon the cover, the lower edge of the flange of the cover is caused to press upon the rubber gasket with an inward lateral force, and, at the same time, "up-set" a portion of the said ring, and force such upset portion downward and outward upon the horizontal gasket-shoulder, in such a manner as to pack the joint immediately between the flange of the cover and the gasket-shoulder, while, at the same time, the vertical joint between the rim of the cover and the neck or rib of the jar, is also packed.

Thus, it is seen, with a single gasket-ring, set edgewise, in an oblique position, upon an extended gasket-shoulder, and against the neck or rib of the jar, I have packed two joints, which are outside of the jar, above the glass screw, and wholly beyond the influence of the gases arising from the contents of the jar.

Previous to the date of this invention, I had filed an application for a patent on a jar, which has a horizontal gasket-shoulder above the screw, on which a gasket-ring was placed flatwise. In said application, I represented a cover with a rim, and held down by a sheet-metal screw, and therefore, my present invention is to be regarded only as an improvement, of subordinate character, to the invention filed January 15, 1868.

A is a jar, made of glass, or other vitreous substance,

with a screw-thread, *a*, formed on its external surface, and consisting of a number of turns.

b is a horizontal shoulder, which forms the bottom side of an annular recess, *c*, which receives an India-rubber packing-ring, *C*, and prevents this ring from rising out of its place.

The recess *c* surrounds the base of the mouth *d*, of the jar, the external surface of which mouth is upwardly tapering, and of less diameter than that portion of the jar which has the screw-thread *a* formed on it. Consequently, the horizontal shoulder *b*, which is at the terminus of the said threaded portion, will afford a wide base upon which to receive upon it all that portion of the India-rubber packing *C*, which is expanded by a vertical and lateral compression of this packing, when the cover *D* is forcibly confined in its place over the mouth of the jar, as shown in figs. 1, 2, and 4.

Cover *D* is constructed with a downwardly-flaring rim, *e*, terminating, at its lower end, in an external rib or flange, *g*; and this cover should be so constructed, with reference to the size and bevelled shape of the mouth *d*, that, in the act of confining it in place, as shown in figs. 2 and 4, its inner bevelled surface *e* will compress the packing *C*, both laterally and vertically.

That portion of the packing which will, under such pressure, swell out beneath the bottom edge of the cover, will be compressed between this edge and the extended shoulder *b*, as shown in figs. 2 and 4, and thus form both a vertically and a laterally-packed joint, with a single packing-ring.

The sheet-metal screw-ring *B*, with its flange at *h*, is used to confine the cover *D* in its place, as above described.

I am aware that it is not new, in fruit-jars, to introduce a packing-ring into an annular recess made in a bevelled external surface of the mouth of a jar. But I am not aware that, prior to my invention, such a grooved or recessed jar has been made with a horizontally-extended shoulder, *b*, which would receive upon it that portion of the rubber packing which is crowded downward and expanded by the act of forcing the cover to its place, and thus adapting a single packing-ring to seal two joints, to wit, the joint which is inside of the inner surface *e*, of the rim of the cover *B*, and the joint which is between the bottom edge of the rim of the cover and the underlying shoulder *b*.

I do not claim, under this petition, the screw-ring *B*, nor the flanged, inverted, cup-shaped cover *D*, nor the placing of a packing-ring upon the external surface of the rib surrounding the mouth of a jar.

Nor do I claim the construction of a jar with a screw thread, terminating in a flat shoulder, *b*, nor the

construction of a jar with a bevelled or upwardly-tapering rib, *d*, as these parts have hereto been fully described by me in previous applications for Letters Patent.

Nor do I ever intend to claim, under this application, the invention embraced in my application, filed January 15, 1868.

Nor do I claim a gasket-ring, set edgewise, and wholly compressed within the rim *e*, of the cover.

Nor do I claim a gasket-ring set into the edge of a cover.

Nor do I claim a gasket-ring set down upon a shoulder, and impinged upon at its top by a rim, which acts with only a straight downward pressure.

In a word, I do not claim anything which has been invented prior to my invention; but

What I do claim as my invention, and desire to secure by Letters Patent, is—

The construction of the cover *D*, jar *A*, and gasket-ring *O*, and combining and arranging these parts so that the cover, when pressed down upon the gasket-ring by the screw *B*, will exert an inward lateral pressure thereon, and, at the same time, upset the lower portion of the ring, and that the upset rubber shall pass outward under the flange of the cover, and be supported by the shoulder *b*, all substantially as described.

JOHN L. MASON.

Witnesses:

R. T. CAMPBELL,
JULIUS HIRSCH.