

W. W. Lyman,

Fruit Jar.

No. 95,819.

Patented Oct. 12. 1869.

Fig. 1

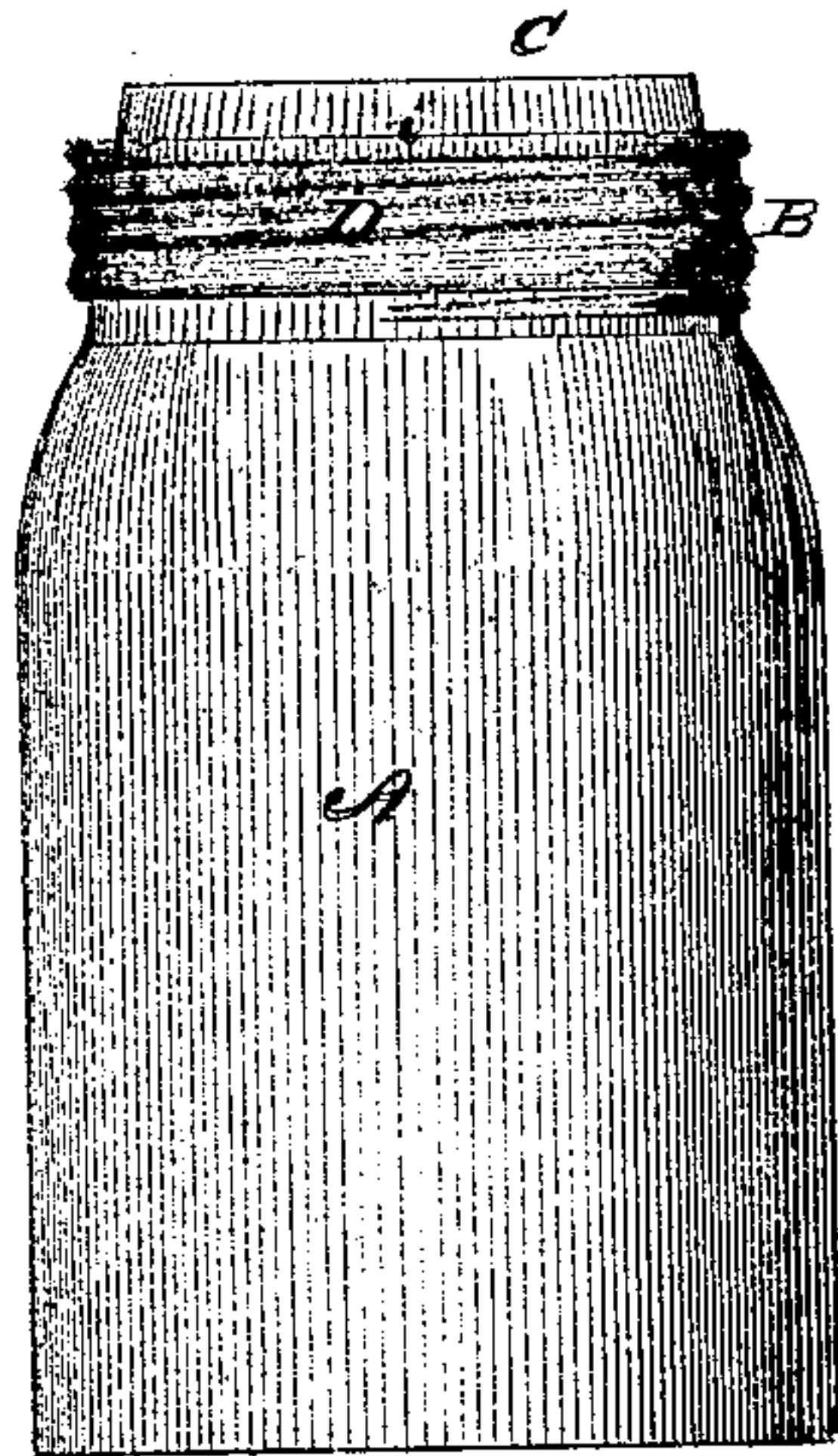


Fig. 2.

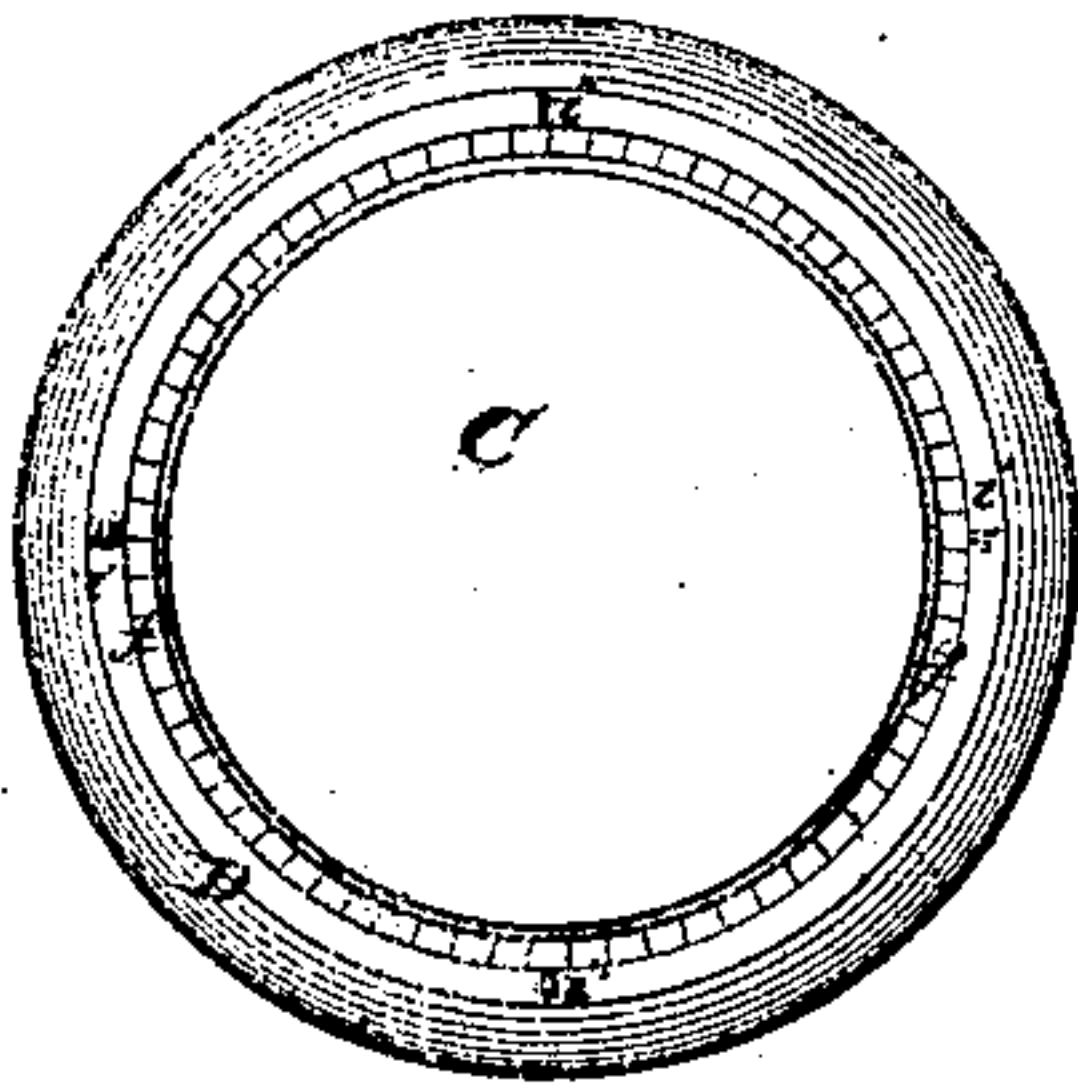


Fig. 3.

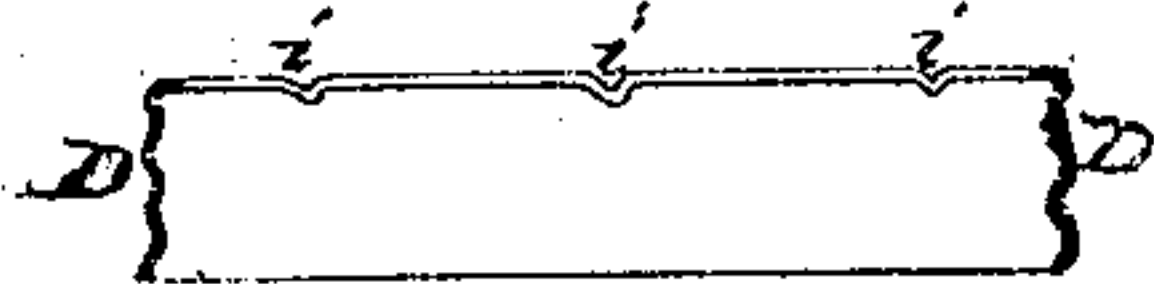
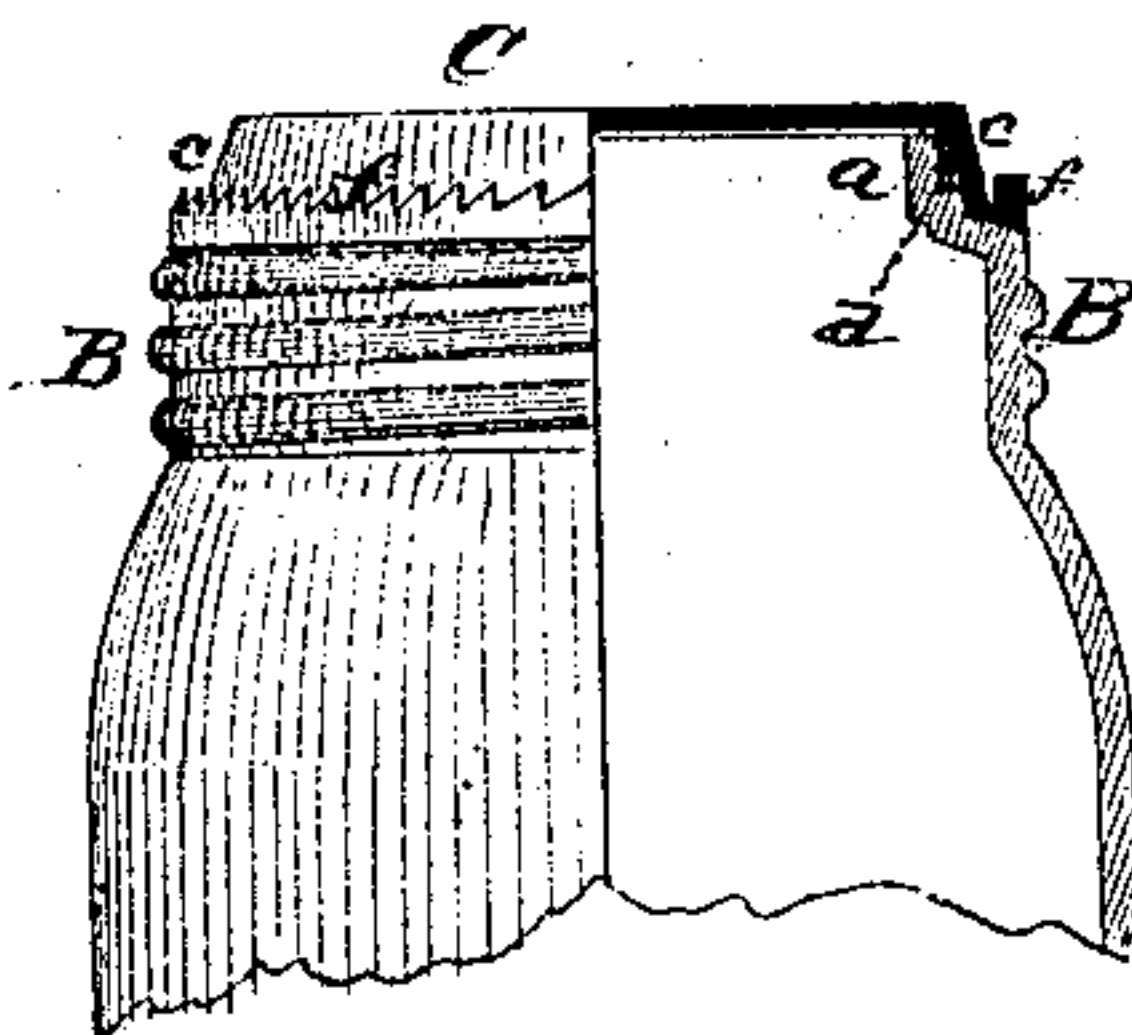


Fig. 4



Witnesses  
A. J. Tobitt  
J. H. Shumway

W. W. Lyman  
Inventor  
By his Attorney,  
J. E. Earle



# United States Patent Office.

WILLIAM W. LYMAN, OF MERIDEN, CONNECTICUT.

Letters Patent No. 95,819, dated October 12, 1869.

## IMPROVEMENT IN FRUIT-JARS.

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, WILLIAM W. LYMAN, of Meriden, in the county of New Haven, and State of Connecticut, have invented a new Improvement in Fruit-Jars; and I do hereby declare the following, when taken in connection with the accompanying drawings, and the letters of reference marked thereon, to be a full, clear, and exact description of the same, and which said drawings constitute part of this specification, and represent in—

Figure 1, a side view;

Figure 2, a top view;

Figure 3, a sectional view of the clamping-ring; and

Figure 4, a side and sectional view of the jar, with the cover placed thereon, but without the clamping-device.

This invention relates to an improvement in jars, such as are used for the preservation of fruit, &c., the object being to make the packing close the joint with more certainty than heretofore, and relates especially to that class of jars in which the packing or India-rubber band is placed around the neck upon its outside surface, and the ledge of the cover setting down thereover, substantially in the manner seen in the patent granted to me as the assignee of E. Harris, February 9, 1864.

In moulding jars, it is extremely difficult to make the neck perfectly round; that is, the neck will sometimes be of less diameter at the point where the moulds part than at another, and, at other times, *vice versa*, but it is almost an impossibility to attain the same diameter entirely around the neck, hence it is difficult to compress the packing placed upon the surface of such a neck so as to insure a perfectly tight joint, and is an objection to this class of jars, which, by my invention, is entirely overcome; and

It consists in constructing the cover with a ledge, upon which the clamping-device operates, with ratchet teeth or projections, and the clamping-device with corresponding teeth or projections, so that turning the clamping-device will, while the teeth or projections upon it engage in the teeth or projections on the cover, turn the cover with the clamping-device, so as to move the cover around the neck of the jar and upon the surface of the India-rubber packing, to work the rubber so as to accommodate itself to any unevenness on the surface of the neck of the jar.

To enable others skilled in the art to make and use my improvement, I proceed to describe the same as illustrated in the accompanying drawings.

The jar A, I construct in the usual manner, with a

threaded neck, B, or other known means, for securing the clamp, by turning the clamp around the neck of the jar, the neck extending up, as at *a*, so as to form a shoulder upon the outer surface for the India-rubber packing *d*, as seen in fig. 4, substantially in the same manner as in jars of common construction.

C, the cover, is formed with a ledge, *c*, to set down over the packing, as also seen in fig. 4, in the usual manner.

Upon the outer surface of the ledge of the cover, I form teeth or projections, *f*, as seen in figs. 2 and 4.

D is the clamping-device, here represented as a screw-ring, shown in section, fig. 3, threaded to correspond to the thread on the neck, and of the usual construction, so as to bear upon the cover, with this difference; that upon the internal flange of the ring D, I form depressions or downward projections, *i*, as seen in fig. 3, more or less in number, so that when the cover is placed upon the jar, and the ring turned on to the neck, so soon as the flange of the ring reaches the ledge of the cover, the depressions or teeth *i* will engage on the notches *f* on the cover, and as the turning of the ring is continued, will turn the cover with it, the inner surface of the ledge of the cover bearing against the India-rubber packing.

The result of thus turning the cover is, that when the cover is placed over the ring, the ledge bears the hardest at that point or points which are most prominent on the neck of the jar. Therefore the turning of the flange of the cover thus bearing against the rubber, works the rubber from the prominent points to others less prominent, until an equal bearing is attained entirely around the neck, and a most perfect joint secured.

It will be observed that various devices for clamping, other than the screw-thread upon the neck, may be employed, it only being essential that the clamping-device, while it is drawing down the screw, should, at the same time, turn the cover, as described.

Having fully described my invention,

What I claim as new and useful, and desire to secure by Letters Patent, is—

In a fruit-jar, the combination of the cover, constructed so as to pass down over the packing *d*, with a clamping-device, operating so that while the said clamping-device draws the cover down on to the neck, it will, at the same time, impart a rotating movement to the cover, substantially as herein set forth.

WM. W. LYMAN.

Witnesses:

RATCLIFFE HICKS,  
FRANK S. FAY.