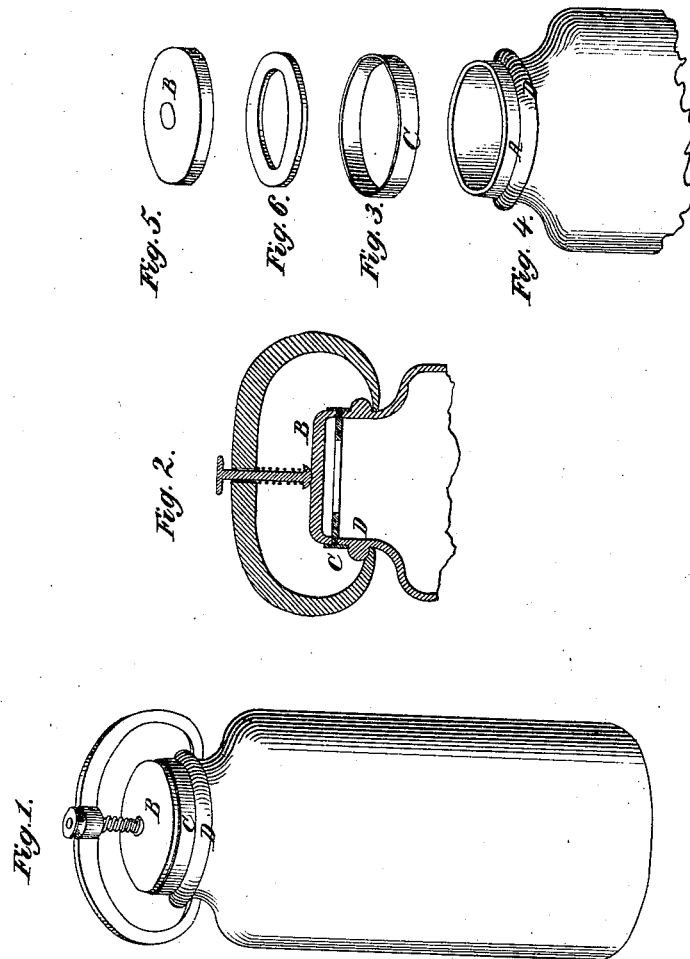


T. EARLE.

Fruit Jar.

No. 46,887.

Patented Mar. 21, 1865.



Witnesses.
Bay. F. Thurston
George B. Barrow

Inventor.

Timothy Earle

UNITED STATES PATENT OFFICE.

TIMOTHY EARLE, OF VALLEY FALLS, SMITHFIELD, RHODE ISLAND.

IMPROVEMENT IN PRESERVE-JARS.

Specification forming part of Letters Patent No. **46,887**, dated March 21, 1865.

To all whom it may concern:

Be it known that I, TIMOTHY EARLE, of Valley Falls, Smithfield, in the county of Providence and State of Rhode Island, have invented a new and useful Improvement in Preserve-Jars; and I do hereby declare that the following specification, taken in connection with the drawings making a part of the same, is a full, clear, and exact description thereof.

Figure 1 is a perspective view. Fig. 2 is a vertical section through the neck of the jar and the cover, showing also the means by which the cover is held in place. Fig. 3 is a detached metallic ring, to be hereinafter explained. Fig. 4 represents the jar uncovered. Figs. 5 and 6 show the cover and the rubber packing-ring.

It is well understood that for the purpose of hermetically closing the mouth of a preserve-jar elastic packing of various kinds has been interposed between the cover and the neck of the jar, which, upon the application of pressure to the cover, will cause the joint to be closed. In practice, however, it has been found that this method cannot with certainty be relied upon unless the entire bearing-surfaces of the cover and the neck are coincident. This condition of the parts is found to be the exception rather than the rule, for sufficient care and labor to insure tolerable perfection in this respect cannot be profitably expended by the glass-blowers upon an article which must be inexpensive in order to meet with a sale. It is highly desirable, therefore, to devise a plan which shall remedy this defect without materially enhancing the cost of the jar.

In the accompanying drawings, Fig. 4 represents the upper half of a jar formed with a plain neck, A. The cover B, Fig. 5, is of the same diameter as this neck, and when in place

the exterior surfaces of the neck A and of the cover at the sides will coincide, as seen at Fig. 2.

In order to remove all inequalities from the surfaces of the cover and the neck, between which the packing is interposed, I grind the same, which can easily be done, and without materially adding to the expense, from the fact that the two surfaces to be ground are perfectly plain and need only be held for a few moments to the face of the ordinary grinder's wheel to accomplish the object. As, however, this shape of the neck and the cover, although the most convenient for enabling the surface in contact to be readily ground, would be inconvenient for most persons in performing the operations of sealing the jar, from the absence of any overlapping lip upon the cover to fix its place upon the neck, I employ a ring, C, Fig. 3, which may be of sheet metal or any other material. The interior diameter of this ring is the same as the exterior diameter of the neck of the jar, and when placed around the lip, with its lower edges resting upon the bead D of the neck, will afford a flange which will facilitate the adjusting of the cover upon the jar, as shown in Figs. 1 and 2. When it desired to seal the jar, an elastic packing of rubber or other material should be placed between the jar and the cover, and the latter be held down by the application of pressure, one mode of applying which is shown in Fig. 4.

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

The use of the detached ring C, in combination with the cover and neck of a preserve-jar, substantially as described.

TIMOTHY EARLE.

Witnesses:

BENJ. F. THURSTON,
G. B. BARROWS.