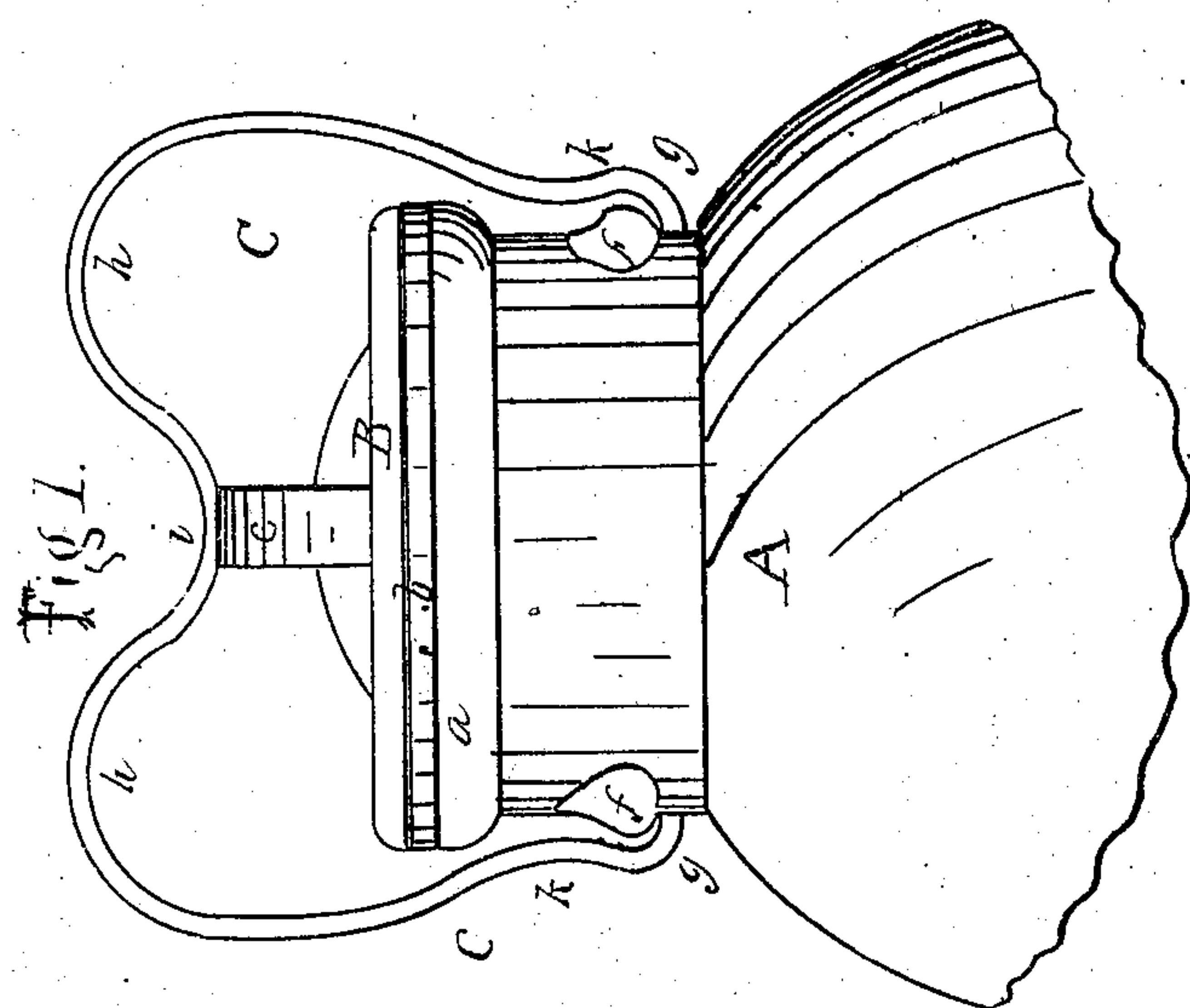
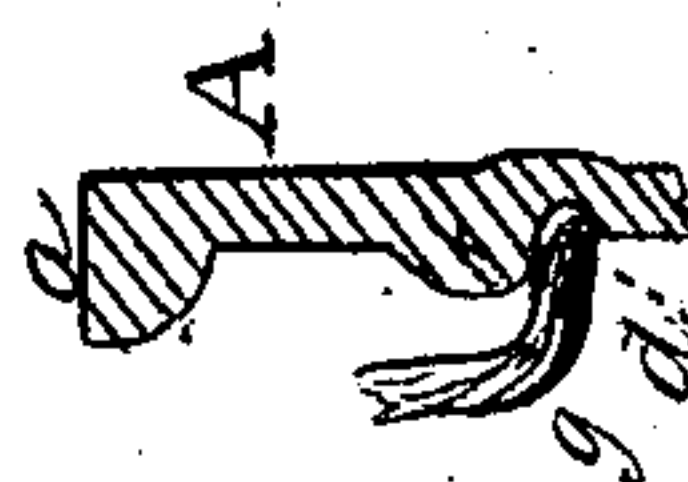
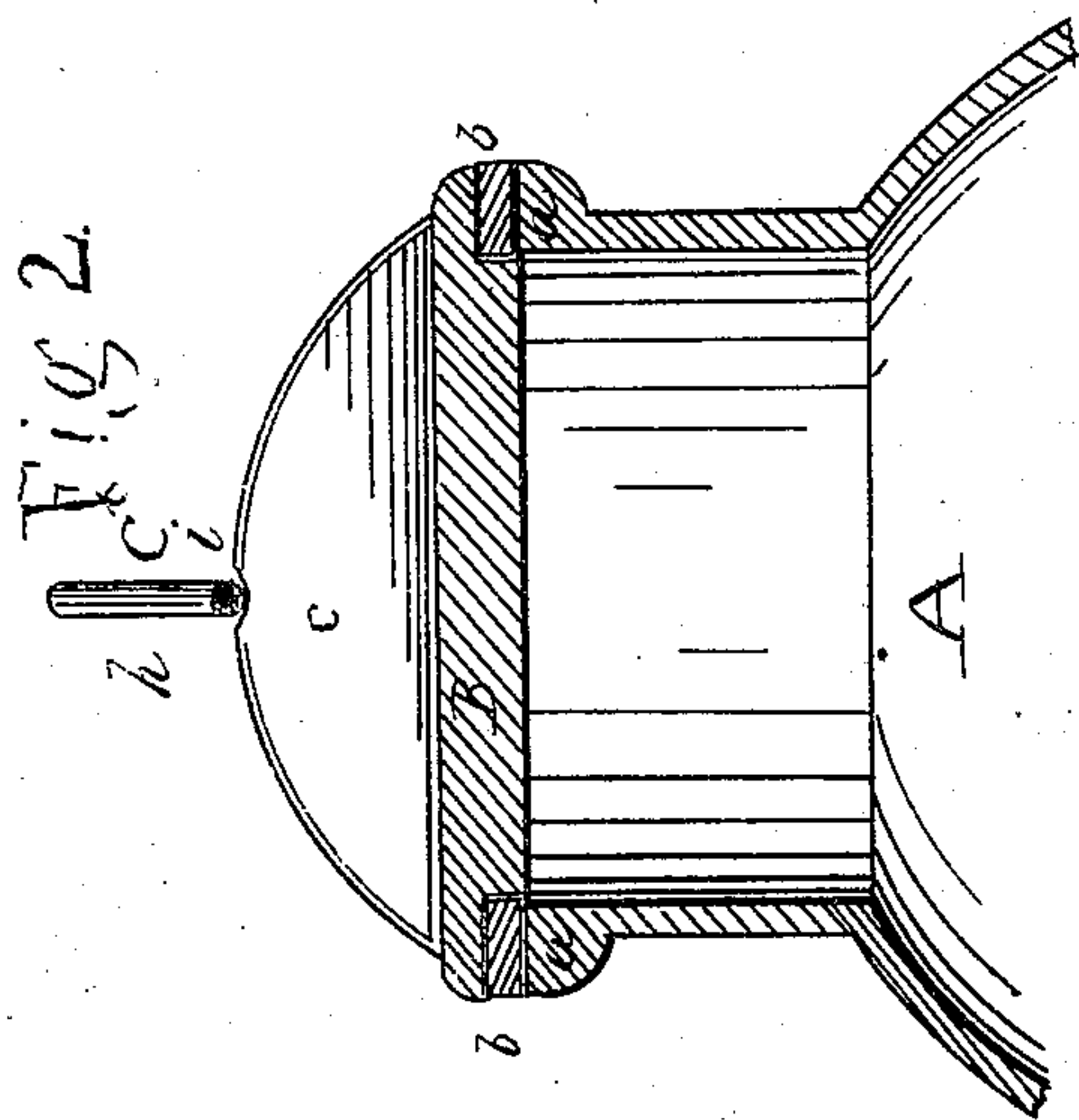


E. B. Whitmore.

Fruit-Jar.

N^o 73271

Patented Jan. 14, 1868.



Witnesses

J. A. Davis,
H. H. Taylor

Inventor:

E. B. Whitmore

By J. Fraser & Co.
Attys.

United States Patent Office.

E. B. WHITMORE, OF ROCHESTER, NEW YORK.

Letters Patent No. 73,271, dated January 14, 1868.

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, E. B. WHITMORE, of Rochester, in the county of Monroe, and State of New York, have invented a certain new and useful Improvement in Fruit-Jars; and I do hereby declare that the following is a full and exact description thereof, reference being had to the accompanying drawings, making part of this specification.

Figure 1 is an elevation of the top of my improved fruit-jar.

Figure 2, a vertical section at right angles to fig. 1.

Figure 3, a section of one side of the neck of the jar, showing the manner of connecting the spring-bail.

Like letters of reference indicate corresponding parts in all the figures.

My invention consists in a spring-bail, of peculiar form, in combination with a double-inclined plane or cam-way of the cover, whereby an unusual degree of elasticity is secured to the cover, to compensate for expansion and contraction of the glass; the said bail, from its peculiar form, also answering as a hold for the fingers in carrying and handling the jar, as hereinafter set forth.

As represented in the drawings, A is a jar, of ordinary form and construction, having a plane top, *a*, on which rests the rubber packing-ring *b*, pressed down by cover B. The cover is preferably made of pressed glass, and it is provided, centrally, on top, with a double-inclined plane or cam-way, *c*, substantially of the form shown. The sides of the neck of the jar are provided with bearings for the bail C, consisting of depressions *d d* and swells *f f*, blown in the glass. By this means the bent ends *g g* of the bail can be expanded and inserted horizontally under the swells, and then, when turned into a vertical position, they hold firmly in place by the natural spring of the bail, and cannot be easily disconnected. The bail consists simply of a piece of wire, fashioned as shown, viz, with double bows or bends *h h* at the sides, on top, and with a reversed or depressed bend, *i*, in the centre. This reverse bend is such as to bear and bind closer and closer on the inclined plane or cam-way *c*, as the bail is raised toward a vertical position, and thus press the cover more closely on the packing. I prefer also to make side bends *k k*, as shown.

Clamps, having their bearings at the sides of the neck of the jar, and resting on top the cover, have been before known, as shown in Patents Nos. 58,998 and 63,193; but in such cases there has been but little, if any, elasticity or spring to the clamps. Glass jars are subject to much change by expansion and contraction under different temperatures. If the bail or clamp is simply bent over the cover, and is rigid, the glass is liable to be broken when expanded, and the cover is liable to leak when contracted. This can be remedied only by giving the bail sufficient space at the top, and furnishing it with such a degree of elasticity as will allow the cover to adapt itself to the top of the jar under all conditions. This effect is accomplished in my case by the bends *h h i*, which, by rising at some distance from the cover, and still bearing thereon, yield readily in either direction to suit the action of the jar. Thus, under expansion, the spring bends outward, and under contraction it bends downward and keeps the jar always tight. I am not aware that this effect has ever before been accomplished.

In addition to the above, the bends *h h* serve as convenient finger-rests in carrying the jar, either before or after it has been opened. This is of very great advantage.

I am aware that a clamp or bail resting on top the cover has before been known. Such, broadly, I do not claim.

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

The double-bowed bail C, provided with the finger-places *h h* and spring-bends *i k k*, constructed and arranged substantially as and for the purposes set forth.

In witness whereof, I have hereunto signed my name in the presence of two subscribing witnesses.

E. B. WHITMORE.

Witnesses:

R. F. OSGOOD,

J. A. DAVIS.