

C. G. IMLAY.
Fruit-Jars.

No. 151,702.

Patented June 9, 1874.

Fig. 2.

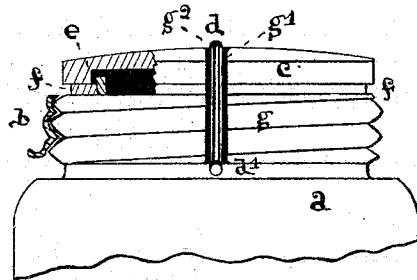
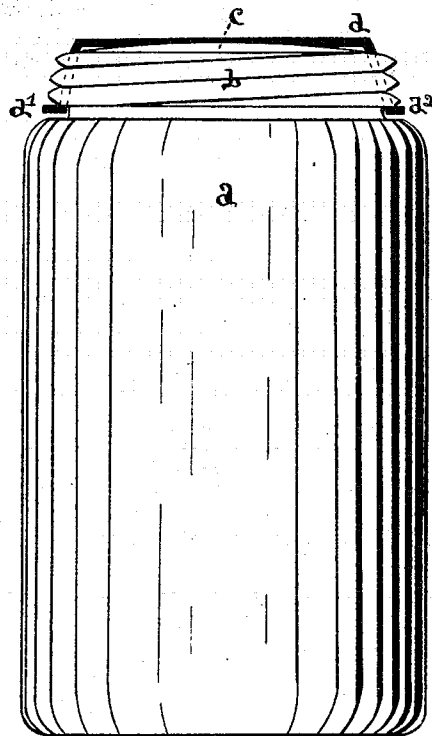


Fig. 1.



Newell Imlay.
Geo. W. Lehman

WITNESSES

C. G. Imlay
INVENTOR

UNITED STATES PATENT OFFICE.

CHARLES G. IMLAY, OF PHILADELPHIA, PENNSYLVANIA.

IMPROVEMENT IN FRUIT-JARS.

Specification forming part of Letters Patent No. **151,702**, dated June 9, 1874; application filed February 7, 1874.

To all whom it may concern:

Be it known that I, CHARLES G. IMLAY, of the city and county of Philadelphia, in the State of Pennsylvania, have invented a certain Improved Fruit-Jar, of which the following is a specification:

My invention consists, first, in the use of a metal screw-ring somewhat similar to those in common use as to the contact with the jar, but dissimilar as disconnected entirely with and from all contact with the cover of the jar, and in no way having any direct or indirect bearing on the cover by any ring or part of a ring, second cover, or gasket, or any other part, except the bail or clamp to be described; second, in the grooves or recesses by which I fit this bail or clamp to the cover, and also pass it inside of the threads of the screw-ring, partially or wholly down, and beneath the screw-threads of the screw-ring; and, third, in the bail or clamp itself, by its peculiar ends; and, fourth, in the arrangements and changes consequent on these devices; and it is evident that other means than the metal ring I have named may be used—as, for example, a plain ring without screw-threads, but with recesses for the glass knobs blown in the jar-neck; or, as a further example, a rubber ring sprung over a plain screwless neck or shoulder, to hold the clamp down; or, as still again, a wire ring over the ends of the clamp, and over knobs blown in the jar, thus making pressure on the clamp without a screw-ring; or, still further, a socket for one end of the clamp, and a buckle-shaped clasp hinged to the other end of the clamp, and locking beneath a projecting knob; and so on to other devices, which leave my use of cover, recesses, and clamp exactly as in the case the screw-ring of metal and screw-threaded jar are used. Yet I prefer the screw-ring, because it is founded on the following experiences, first, &c.

Figure 1 is a side elevation of my jar when closed; and Fig. 2 is a view giving a clearer idea of the parts not seen in Fig. 1, the screw-ring being removed, and a part of the cap being cut away to show the relations of the cap or cover to the jar, and to the rubber ring.

In Fig. 1, *a* is a glass jar, blown with the screw-thread at its top, on which the open metallic ring *b* is adjusted. This ring may be

made of glass or of cast metal, with a plain outside and a screw-thread on its inside, though a flexible sheet-metal ring spun out of a plain disk is preferable, the lower edge being turned outward or folded on itself, or with a wire in its lower edge to stiffen that part of the screw-ring; and *c* is a glass cap, seen as slightly projecting above the metal ring, in order that the clamp *d* over the top of it, and lying partially in a groove in this cap or cover, may bear only in the center of the cover. This clamp at each end is bent downward in grooves or depressions in the screw-thread blown in the glass jar, on opposite sides of the jar, going down to the bottom of the metallic ring, where it curves outward, and appears at *d'* and *d''*. By this arrangement, it will be noticed that the following advantages are gained: First, a central bearing on the top of the cover; second, an elastic clamp pressure; third, the independence of the ring from the direct locking of the jar; fourth, that the unsealing or unlocking of the jar is not rendered difficult by the corrosion of the ring to the cover, as the ring is open and does not touch the cover; and, fifth, that the jar thus locks and unlocks easily.

In Fig. 2, the same letters indicate the same parts, and, tracing the jar from below upward, the jar terminates, by a clear space, just below the screw-thread, and that on the top of this screw-thread is the flat space for the bearing of the rubber ring *f*, also blown in the glass; and that at the left hand, where the cover is in part represented as cut away, a beveled upper neck, *e*, is made, so that the rubber ring or gasket may be held, by this neck, to the jar, and on the flat bearing made for it; and that this neck is prolonged above the gasket, so as to give a ledge or circled resting-place for the cover *e*, while the clamp *d* is seen in one of the two recesses or grooves *g*, made through or depressed in the screw-threads by suitable projection inserted in the metallic glass-mold in which the jar is blown, thus making the recesses on opposite sides of the jar. The clamp *d* is seen also in the groove *g'* in the top of the cover, as well as in this groove as continued in the cover on each side of it, down to the grooves of the jar-thread below. At the left hand of the figure

is also seen a section, *b*, of the flexible metallic ring, with its lower edge turned outward for the purpose of rendering this edge less flexible or less liable to bending, and to give a broader bearing for the ends *d*¹ and *d*² of the clamp.

It will be seen that by the device I have described I have secured, first, a compact, neat jar; second, a jar in which an open screw-ring, independent of the cover, makes an elastic pressure on the center of the cover by means of an independent metallic clamp, and that all the parts of the device I have invented are readily manufactured; and that they, thirdly, make a serviceable jar.

The other advantages and uses of my invention are apparent to those skilled in the art to which it appertains.

I claim—

1. A fruit-jar-sealing device constructed by the clamp *d*, with pressure on the top of the cover *c* in or through recesses or grooves *g*, inside of and beneath the ring *b*, and locked by the ring *b*, substantially as set forth.

2. The recesses *g*¹ *g*² in the cover, and the recesses *g* in the jar, one or both, in combination with the cover *c* and jar, whether the ends of the clamp *d* are locked by the metal screw-ring *b* or other device, as set forth.

3. The clamp *d*, with pressure on the top of the cover *c*, and extended down the jar-neck in recesses *g*, and with its ends bent outward and locked by the ring *b* or other device, as set forth.

CHAS. G. IMLAY.

Witnesses:

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