W. S. Thompson.

Fruit-Jar

No. 94,452. Patented Aug. 31. 1869

Fig. 1.

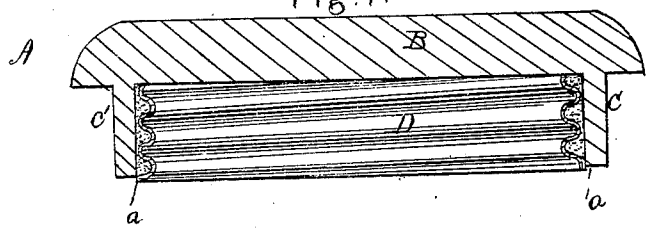


Fig. 2.

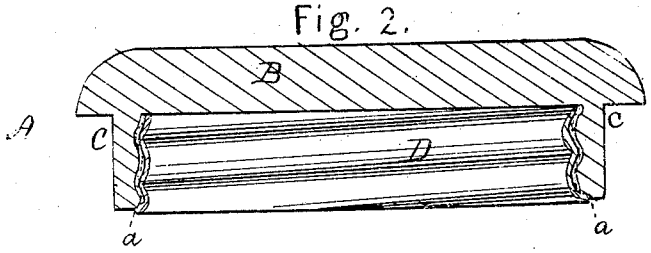
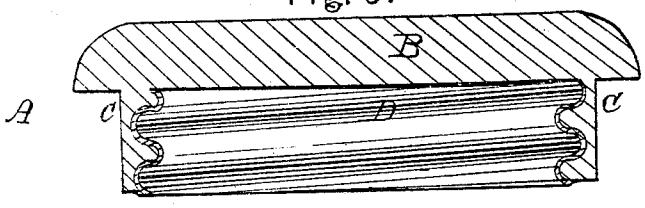


Fig. 3.



Witnesses:

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WILLIAM S. THOMPSON, OF ROCHESTER, NEW YORK.

Letters Patent No. 94,452, *dated August* 31, 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 S. THOMPSON, of Rochester, in the county of Monroe, and State of New York, have invented a new and useful Improvement in Fruit-Jars; and I do hereby declare the following to be a clear and exact description of the nature thereof, sufficient to enable others skilled in the art to which my invention appertains to fully understand and use the same, reference being had to the accompanying drawings, making part of this specification, in which—

Figure 1 is a central vertical section of the device illustrating my invention.

Figures 2 and 3 are modifications thereof.

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

My invention consists in providing a threaded metal lining on the inner face of the pendent flange of a glass cap of a fruit-jar, said lining being firmly secured in place, and operating in a manner and possessing advantages, as will be hereinafter described.

It is well known that when caps and necks of jars are made of glass and screw-threaded, that the threads do not fit well or correspond to each other, and that in forming threads on the inner face of the pendent flange of the cap, the mould cannot be removed without breaking said cap.

It is desirable that the fruit contained in the jar be not brought into contact with metal, and for this purpose screw-rings or locks have been devised, which are made separate from and independent of the top or cap, and to screw over the outside of said cap and the neck of the jar. These rings are necessarily made large, and, being removable, cause two operations necessary in closing the jar, namely, first, the application of the top, and second, that of the lock or ring.

Another plan adopted is to empty a glass disk and apply a screw-ring thereto, and secure it on the top thereof, but this plan is objectionable because the parts cannot be firmly secured together, and the disk will soon give or yield to the pressure and allow the admission of air, and thereby cause injury to the contents of the jar.

My invention is intended to obviate these defects, and produce a more perfect jar.

In the drawings—

A represents the top of a fruit-jar, consisting of a head, B, and a pendent flange, C, which parts are formed of solid glass.

D is a metal lining, which is placed on the inner face of the flange C, and firmly secured thereto.

This lining is screw-threaded, by swaging or other suitable means, and is adapted to fit over the threaded neck of the body of a glass jar.

When the two are placed together, the appearance is presented of an entirely glass jar, so that the contents thereof are subjected to contact only with glass.

When the cap B C is hot, the lining may be applied thereto, and the shrinkage of the former, on cooling, will firmly hold the latter; or the lining may be applied when the cap is cold.

Cement is then interposed between the two, as seen at *a a*, figs. 1 and 2.

The inner face of the flange may or may not be grooved to receive the cement, which, in turn, is grooved by the action of the thread of the metal lining; or the flange may be grooved or screw-threaded, and a band of metal applied thereto, and, by spinning or swaging, said band is forced into the grooves or threads of the flange, and thus converted into a screw-lining; or the threaded lining may be made to fit snugly on the flange, and then tightened, by swaging, spinning, or otherwise.

It will be found that I provide a simple and practical device, and one which will remedy the evils heretofore described, besides overcoming the great friction which exist between glass screw-caps and glass screw-necks, and possesses other advantages, which will be apparent to those acquainted with the art.

Other modes of securing the lining in place than that described, may be employed, as is found most desirable or practical.

I am aware that a sheet-metal cap or capsule has been placed over both the stopper and neck of bottles, jars, &c., and firmly fixed thereon by subsequently pressing the metal into grooves formed on the external faces of the stopper and neck, but this feature constitutes no part of my invention.

Having thus described my invention,

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

The combination, with the flanged glass top B C, of the threaded metal lining D, applied to the internal face of the flange C, and adapted to operate substantially as and for the purpose described.

The above signed by me, this 12th day of August, 1869.

W. S. THOMPSON.

Witnesses:

JOHN A. WIEDERSHEIM,

A. S. PRATT.