

R. S. MANNING.
Sealing Fruit-Jars.

No. 139,170.

Patented May 20, 1873.

FIG. 1.

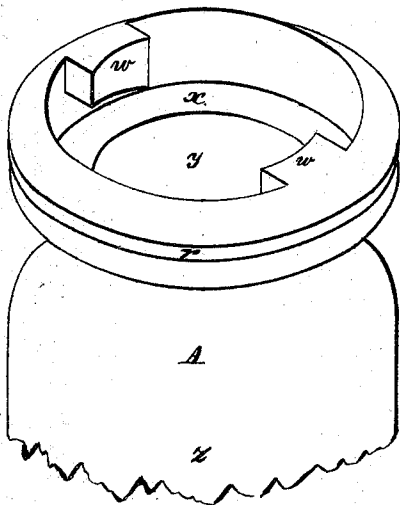


FIG. 2.

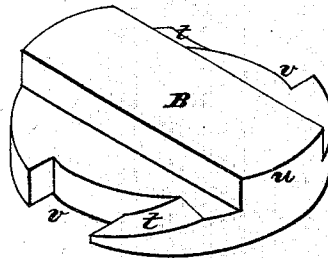


FIG. 3.

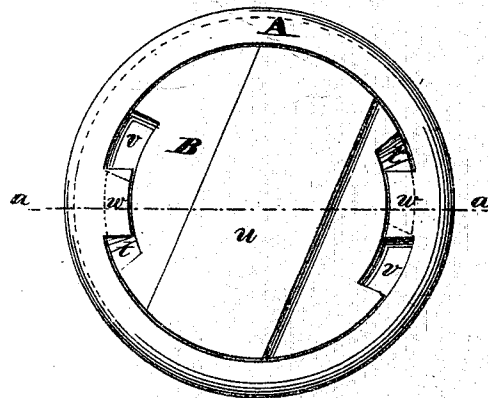


FIG. 5.

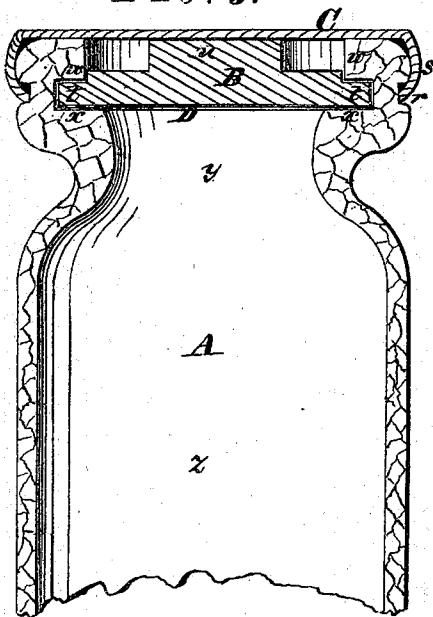
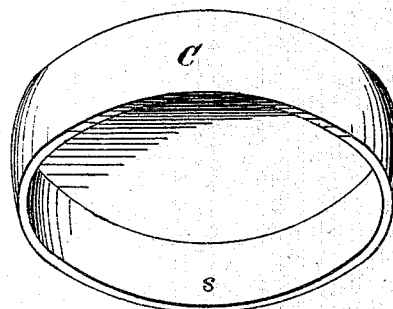


FIG. 4.



WITNESSES:

Jas. L. Ewin
Walter Allen

INVENTOR:

Robert S. Manning
By *[Signature]* Attorneys.

UNITED STATES PATENT OFFICE.

ROBERT S. MANNING, OF TRENTON, NEW JERSEY.

IMPROVEMENT IN SEALING FRUIT-JARS.

Specification forming part of Letters Patent No. **139,170**, dated May 20, 1873; application filed March 25, 1873.

To all whom it may concern:

Be it known that I, ROBERT S. MANNING, of Trenton, in the county of Mercer and State of New Jersey, have invented a certain Improvement in Self-Sealing Jars, of which the following is a specification:

Nature and Objects of the Invention.

This invention relates to self-sealing jars for packing fruit, lard, oysters, and other materials for family use and for the market. The object of the invention is the production of a neat, readily-closed, and cheap water and air tight package, which shall not impart taste or odor to the contents. The preferred material for the jar and its cover is porcelain; but glass or other non-corrosive material may be employed. The invention consists in the combination of a water-tight locked cover and an external rubber cap to exclude air, as herein-after set forth.

Description of the Drawing.

Figure 1 is a perspective view of a jar adapted to be closed according to this invention. Fig. 2 is a perspective view of the inner cover of the same, detached. Fig. 3 is a plan view of the jar with the cover applied. Fig. 4 is a perspective view of the rubber cap, detached. Fig. 5 is a vertical section on the line *a*, Fig. 3, of a sealed jar, illustrating the invention.

General Description.

Referring to the drawing, A represents a jar, and B a cover therefor, of porcelain, glass, or other non-corrosive material, adapted to be cheaply manufactured, by means of suitable molds, in the ordinary way. C represents a molded elastic cap of vulcanized caoutchouc or rubber; and D, a gasket of linen or cotton cloth. The jar A may have a body, *z*, and a neck, *y*, of any preferred shape and proportions. The mouth of the jar is a shallow circular enlargement, terminating below in a flat shoulder, *x*, and furnished at top with a pair of inwardly-projecting lugs, *w*, with inclined bottoms. The muslin gasket D is placed on the shoulder *x*, and the cover B is imposed thereon. The lugs *w* pass through recesses *v* in the cover, and the cover is then rotated by

means of a rib, *u*, or its equivalent, on the top thereof, so as to bring inclines *t* on the cover under said lugs *w* to force the cover onto its seat. The elastic cap C is then applied, a marginal flange or rim, *s*, thereon being stretched over the top of the jar; and a groove, *r*, around the head of the jar receives the edge of the same, which contracts therein. A perfectly air-tight joint is thus formed which is preserved from impairment by the liquid character or the weight of the contents, by the securely-locked inflexible inner cover B, which also preserves the contents from contact with the rubber of the cap. The cap may consequently be made of a cheap quality of rubber. The muslin gasket D forms a sufficient packing to fill irregularities in the molded seat of the cover, so as to obviate grinding, and is free from liability to taint the contents.

The clamped cover B and the rubber cap C of this jar are known to be old, separately considered, and are therefore disclaimed, except as combined in the manner herein set forth. The cover B employed alone requires one or more rubber gaskets, and these impart, to a greater or less extent, an unpleasant taste or odor to the contents of the jar. The cap C employed alone is impracticable by reason of the lack of ability to resist the pressure of the contents, or permanently to prevent leakage, and also on account of the greater degree to which the contents are unavoidably brought in contact with it. In the described combination the cap seals the jar in a most perfect manner, and is protected from the contents, and the contents therefrom, by the inner cover.

Claim.

The following is claimed as new, namely:

A self-sealing jar provided with a locked water-tight cover, B, and an external rubber cap, C, to exclude air, substantially as and for the purposes herein set forth.

To the above specification of my improved self-sealing jar I hereunto set my hand this 12th day of March, 1873.

ROBT. S. MANNING.

Witnesses:

OCTAVIUS KNIGHT,
WALTER ALLEN.