

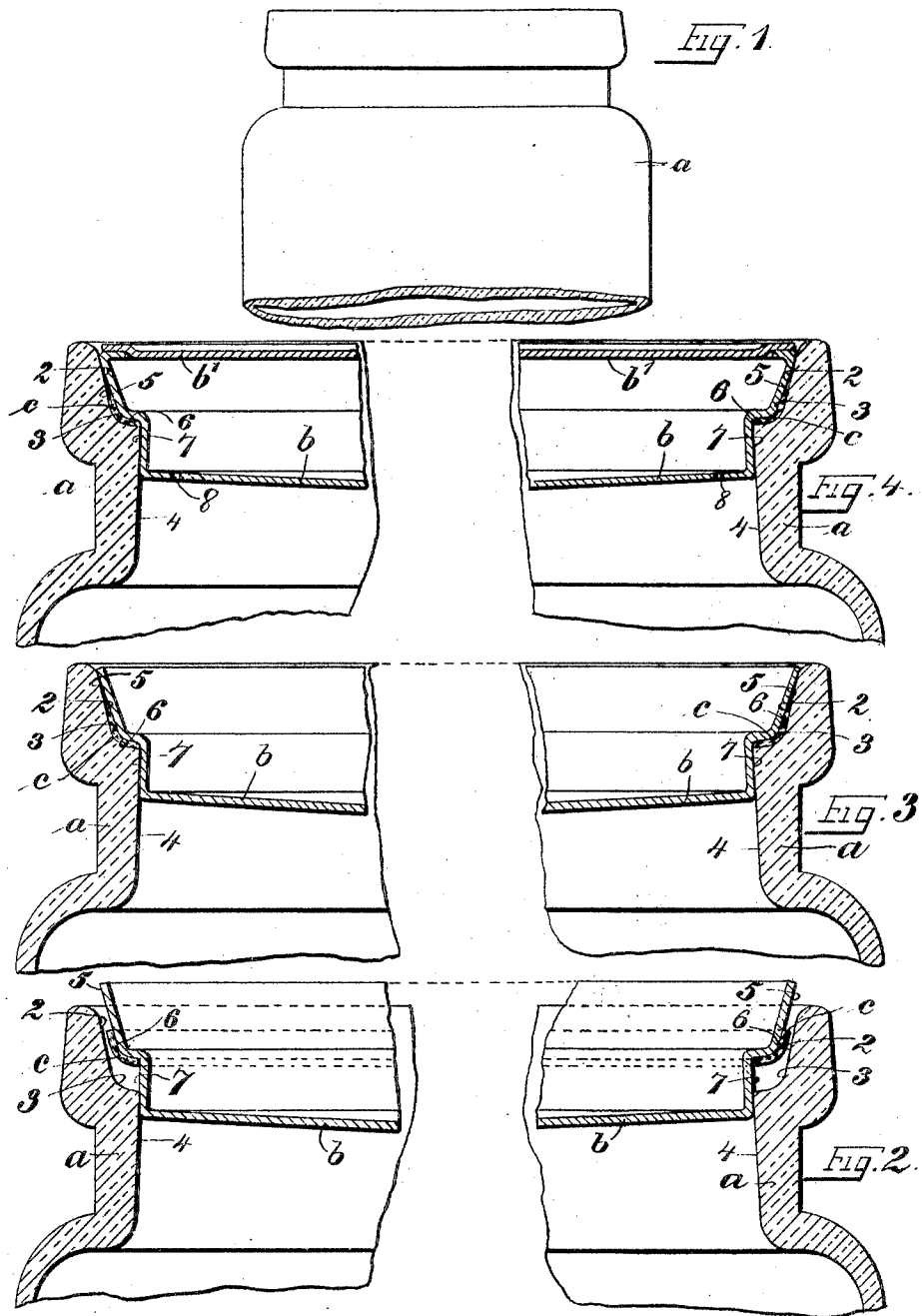
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C. C. HOVEY.

SEALING JAR FOR PRESERVING VARIOUS ARTICLES, SUCH AS FOOD, &c.

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WITNESSES

Joseph H. Lee
Charles H. Smith

INVENTOR

Charles Cornwall Hovey

PER *Harold L. Loomis*

ATTY

UNITED STATES PATENT OFFICE.

CHARLES CORNWELL HOVEY, OF BAINBRIDGE, NEW YORK.

SEALING-JAR FOR PRESERVING VARIOUS ARTICLES, SUCH AS FOOD, &c.

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Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, CHARLES CORNWELL HOVEY, a citizen of the United States, residing at Bainbridge, in the county of Chenango and State of New York, have invented an Improvement in Sealing-Jars for Preserving Various Articles, such as Food, &c., of which the following is a specification.

My invention relates to that class of sealing-jars in which various articles of food are preserved in vacuum, the vessel being sealed by atmospheric pressure; and the object of my invention is to increase the efficiency of the seal, the strength of the vessel, and prolong the useful life of the vessel or receptacle by a construction in which sharp angles which might cause breakage adjacent to the closure or seal are avoided.

I construct my improved jar or vessel of glass or other vitreous or suitable material and the cover of sheet metal or other suitable material and of dishing form which fits down into the open top of the jar-body. The inner wall of the jar-body and outer wall of the cover are provided with similar concentric tapering curved and substantially vertical portions with a gasket in the form of a curved rubber band between the curved portions of said walls, which form the seat for the band.

In the drawings, Figure 1 is an elevation at the upper end of the jar. Fig. 2 is a cross-section at the upper end showing the dishing cover as slightly raised above its seat in the jar. Fig. 3 is a cross-section similar to Fig. 2, with the cover seated; and Fig. 4 is a view similar to Fig. 3, but showing a double form of cover or hollow cover seated in the upper end of the jar. Figs. 2, 3, and 4 are of exaggerated proportions for clearness.

The jar or vessel *a* is to be of glass or other vitreous or suitable material, and the outer configuration thereof is not important. The inner configuration at the mouth of the jar comprises a tapering wall 2, a curved wall 3, merging therewith and extending toward the center of the jar, and from the edge thereof a substantially vertical wall 4. Below the wall 4 the inner wall of the jar-body may be of any desired configuration. The cover *b*, of sheet metal or other suitable material, is of dishing form adapted to fit down into the open top of the jar-body. The outer surface of the cover comprises the tapering wall 5, the curved wall 6, and the substantially vertical wall 7, which together with the inner wall of the jar-

body form similar concentric tapering curved and substantially vertical wall portions. From Figs. 2, 3, and 4 of the drawings it will be apparent that when the cover is in place in the mouth of the jar the upper end of the wall 2 of the jar and the upper end of the wall 5 of the cover substantially touch and that the wall 4 of the jar and the wall 7 of the cover come into close relation, but not binding contact, and that between these points there is a space which gradually tapers from the upper end of the wall 5 of the cover to the upper end of its wall 7, in which is received around the curved wall 6 of the cover a curved rubber band *c*, forming a gasket. This band *c* is preferably molded of curved form, so as to cause the same to readily keep its shape, and it extends around the curved wall 6 of the cover from the upper end of the wall 7 around toward and against the lower end of the wall 5 of the cover.

Fig. 2 shows the dishing cover as slightly recessed above the body of the jar, at the same time indicating the close relation of the walls 4 and 7. This figure also indicates with great clearness that the tapering wall 2 joins with and is merged into the curved wall 3, so that there is no angle between these parts, also that the seat of the gasket *c* on the curved wall 3, by virtue of the atmospheric pressure on the dishing cover, is both downward and outward, thus employing substantially the two forces for maintaining the cover in position upon its seat and for forming the tightest closure between the parts, the pressure exerted by the atmosphere in holding the cover to the jar tending to spread out the rubber band and cause the same to be expanded widthwise to a slight extent in opposite directions, insuring a perfect seal. This cover may be single or double, as shown in my application for Letters Patent, Serial No. 228,676, filed October 17, 1904, and duly allowed December 17, 1904. In Figs. 2 and 3 I have shown the cover single, while in Fig. 4 I have shown that the cover may be double. In this figure the upper edge of the wall 5 is overturned and a cover *b'* slightly flanged around the periphery to seat thereon. These edges are preferably connected by a soldered joint, so as to be airtight, in which case the bottom of the cover will preferably be provided with holes 8, having the function described therefor in my aforesaid application—viz., as a receptacle for any gases coming from the sealed expanding

contents of the jar and which under ordinary circumstances might have a tendency to lift the cover and break the seal.

While I have herein spoken of a sealing-jar, it is obvious that the vessel to receive food to be preserved may be of any desired character or description, as well as of any suitable material, as already stated, and while I have spoken of employing vitrified material, such as earthenware or glass, for the jar it is also obvious that the vessel to receive the articles to be preserved may be even made of sheet metal so long as there are similar concentric walls in the inner sealing part that are tapering, curved, and substantially vertical in their continuing parts.

I claim as my invention—

1. A sealing vessel for preserving articles by atmospheric pressure, comprising a body and cover of suitable material, the cover fitting down into the open top of the body, and both parts having similar concentric walls that are tapering, curved and substantially vertical in their continuing parts, and a rubber band forming a gasket between the said parts for effecting the seal.

2. A sealing vessel for preserving articles by atmospheric pressure, comprising a body and cover of suitable material, the cover fit-

ting down into the open top of the body, and both parts having similar concentric walls that in cross-section are tapering and curved inward and substantially vertical in their continuing parts, and a curved rubber band forming a gasket between the curved parts of said walls for effecting the seal.

3. A sealing vessel for preserving articles by atmospheric pressure, comprising a body and cover of suitable material, the cover fitting down into the open top of the body and both parts having similar concentric walls that are tapering and curved inward and substantially vertical in their continuing parts, the inclination of one of said tapering walls being slightly greater than that of the other tapering wall, so that when the upper end of the tapering walls come substantially together there is a space formed between the same and a curved rubber band forming a gasket located in the said space and between the curved parts of said walls for effecting the seal.

Signed by me this 17th day of February, 1905.

CHARLES CORNWELL HOVEY.

Witnesses:

JULIEN SCOTT,
VERNON HOVEY.