

C. A. STENIUS.
PRESERVING VESSEL AND COVER THEREFOR.
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1,058,640.

Patented Apr. 8, 1913.

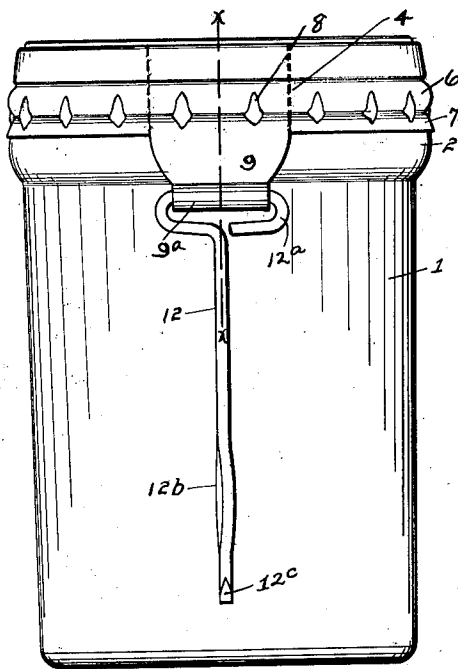


Fig. 1.

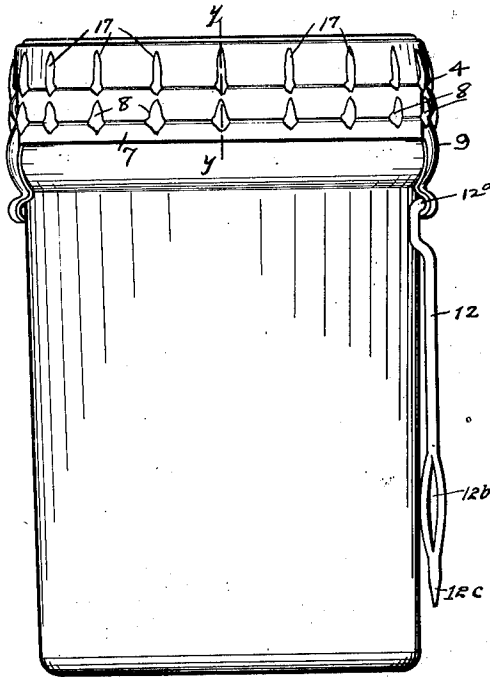


Fig. 2.

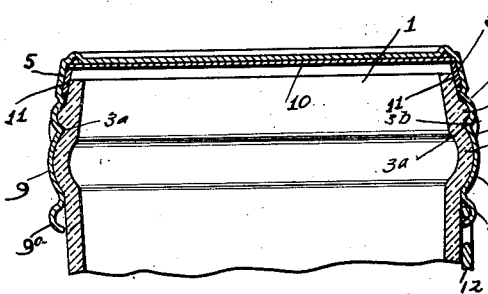


Fig. 3.

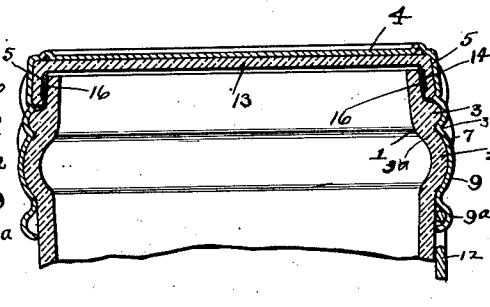


Fig. 4.

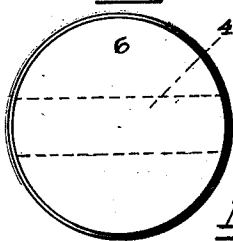


Fig. 5.

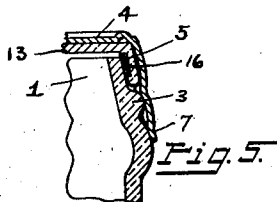


Fig. 6.

Witnesses

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PRESERVING VESSEL AND COVER THEREFOR.

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To all whom it may concern:

Be it known that I, CHARLES A. STENIUS, a citizen of the United States, residing at South Bend, in the county of St. Joseph and State of Indiana, have invented certain new and useful Improvements in Preserving Vessels and Covers Therefor, of which the following is a specification.

My invention relates to the improvement of preserving vessels and covers therefor, and the objects of my invention are to provide in connection with a jar or other receptacle, an improved construction of cover and sealing device, by means of which a jar or similar receptacle may be hermetically sealed to insure perfect preservation of the contents of the receptacle, and to produce other improvements which will be more fully pointed out hereinafter. These objects I accomplish in the manner illustrated in the accompanying drawing, in which—

Figure 1 is a view in elevation of one of my improved jars, Fig. 2 is a similar view at right angles with that shown in Fig. 1 and showing a slightly modified construction of cover, Fig. 3 is a vertical section of the upper portion of the jar indicated in Fig. 1, said section being taken on line *x—x* of said figure, Fig. 4 is a vertical sectional view of the jar shown in Fig. 2, Fig. 5 is a sectional view on line *y—y* of Fig. 2, and Fig. 6 is a plan view of the jar upon a reduced scale.

Similar numerals refer to similar parts throughout the several views.

1 represents a jar or other preserving receptacle, which may be of glass or other suitable material. In constructing the upper portion of the jar or other vessel 1, I form therein a rounded peripheral shoulder 2 and immediately above the latter, a similar although smaller shoulder or bead 3, between which shoulders or beads is formed a continuous peripheral channel or groove 3^a, the purpose of which will be pointed out hereinafter.

In constructing the cap or cover for the vessel, I produce a cup-shaped body 4 preferably of suitable sheet metal, the upper portion of the downwardly extending side walls of said body being extended outward in the form of a projecting band, which results in the production of an internal continuous channel 5 and beneath this channel the wall of the cover is provided with a continuous rounded bead-like projection 6, beneath which the body of the cover is formed

with a flaring terminal portion 7. Formed partly in the outwardly curved rib 6 and the terminal member 7, is a plurality of separated and vertically elongated indentations, which result in the external projections 8. On opposite sides of the base of the cover or cap, I provide downwardly extending ears 9, which are curved to conform to the curvature of the rounded projection 2 of the jar and each of which is formed with an inverted terminal hook member 9^a.

Previous to the application of the above described cover to the jar top, I fit within the inner side of the cover top and within the upper portion of the internal wall recess 5, a disk 10 of paper or other suitable material and within said recess 5 is also fitted a yielding packing ring 11 which is formed of a suitable composition. It will be understood that the outwardly and inwardly projecting rib members of the cover, are intended to closely embrace the corresponding projections and recesses or grooves of the jar, thus forming a close fitting air tight connection of the cover and jar. When the cover is thus in its place upon the jar, it will be noted that the inner surface of the yielding packing ring 11 is in contact with the periphery of the upper portion of the jar, the outwardly projecting cover member 6 embracing the rounded jar projection 3, and the terminal skirt or flaring member 7 embracing the upper portion of the jar projection 2. In addition to the embracing of the jar members 2 and 3 by the portions 6 and 7 of the cover, it will be observed that the inwardly projecting rib 3^b which is formed between the members 6 and 7 of the cover, is adapted to fit closely within the peripheral groove or recess 3^a of the jar, thus more effectively sealing the cover in connection with the jar.

As shown in the drawing, the downwardly extending ears 9 fit over the jar projection 2, while one of the terminal hooks 9^a is linked into engagement with the upper link-shaped end 12^a of a depending jar opening key 12. The stem or body of this key is provided with a flattened wedge shaped termination, as shown at 12^c. If considered preferable, however, I may substitute for the paper disk 10, an inverted cup-shaped glass member 13, the disk-like upper face of which is adapted to fit against the underside of the cover top, while its downturned wall portion enters and fills the recess 5 of the cover wall.

As indicated in the drawing, the inner surface of the downturned flange or wall of the glass plate 13 is formed with a continuous recess or depression 14 and into this depression is fitted a composition packing ring 16 corresponding with the ring 11. It is obvious that when the glass plate 13 is thus employed, the upper tapering or inclined end portion of the jar which is above its member 3, is in contact with the inner face of the yielding packing ring 16, while the remaining portions of the cover walls embrace the projections thereof in the manner heretofore described.

It will be understood that the projections 8 which are formed as the result of indentations in the wall of the cover, will serve to convert the portion between said projections into spring members and aid in clamping the cover wall in proper engagement with the projections of the jar. When the internal glass plate 13 is to be employed, I preferably form the upper portion of the cover wall above the line of projections 8 with a plurality of similar projections 17 which aid in effecting a proper clamping engagement with the walls of said glass member.

In removing the cap or cover, it will be understood that the key 12 is detached from the hook termination of one of the ears 9, the portion of the ear forming said hook thus being sufficiently straightened to engage the elongated opening 12^b of the key. This being accomplished, the key is rotated, with the result that the ear 9 and a strip of metal forming a part of the cover and of which the ears are a continuation, are gradually wound upon said key, with the result that a break is effected crosswise of the cover, which permits of the ready removal of the latter. In order to insure the tearing or breaking of the cover on predetermined lines, I preferably provide the cover top with parallel score lines which bound a diametrical strip across said top, this strip being wound upon the key in the usual manner. In case the glass plate 13 is employed,

this plate is readily removed by inserting the wedge like end 12^a of the key beneath the lower edge of the plate wall and raising the plate until air is admitted to the jar.

From the construction described, it will be seen that I have not only provided a hermetically sealed vessel or receptacle which is particularly adapted for the preservation of meats, soups, etc., but that the sealing means are such as to prevent any contact of the contents of the vessel with the tin or other metal which comprises the cover.

From the foregoing description, it will be seen that simple and efficient means are herein provided for accomplishing the objects of the invention, but while the elements shown and described are well adapted to serve the purposes for which they are intended, it is to be understood that the invention is not limited to the precise construction set forth, but includes within its purview such changes as may be made within the scope of the appended claim.

What I claim, is—

In combination with a jar having superposed external beads and an interposed channel, a cover comprising a main cup having a depending skirt having indentations formed therein, an annular bead formed integrally on the skirt and adapted to embrace the uppermost bead of the jar, a flared edge partially embracing the lowermost bead of the jar, and intermediate ridge adapted to fit into the said channel, spaced legs formed integrally on said skirt and embracing the remainder of the said lowermost bead, and scored portions extending from said legs and merging with said cover proper whereby a weakened strip is provided in said cover and terminating in said legs.

In testimony whereof I affix my signature in presence of two witnesses.

CHARLES A. STENIUS.

Witnesses:

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