

T. MAYNARD & D. E. LAIN.

FRUIT JAR COVER.

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972,206.

Patented Oct. 11, 1910.

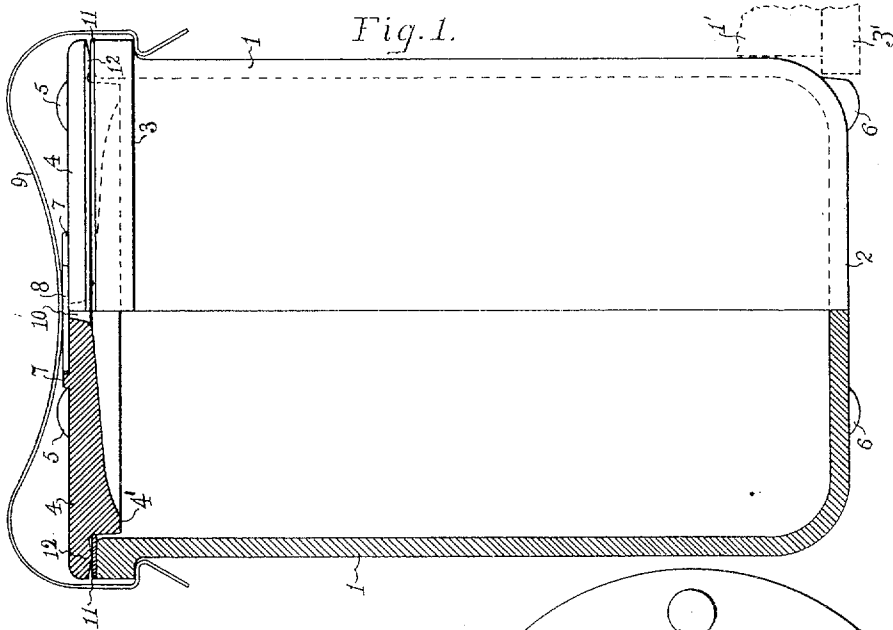


Fig. 2.

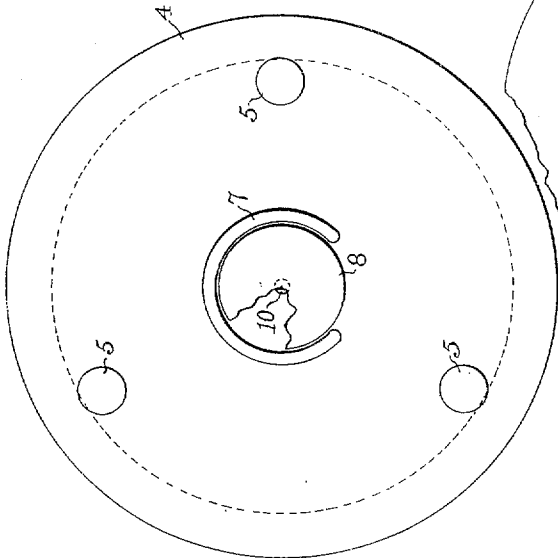
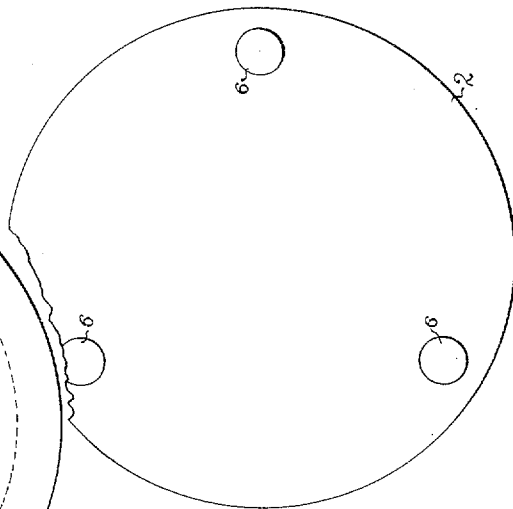


Fig. 3.



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FRUIT-JAR COVER.

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To all whom it may concern:

Be it known that we, THEODORE MAYNARD and DAVID E. LAIN, citizens of the United States, and residents of Bellingham, in the county of Whatcom and State of Washington, have invented certain new and useful Improvements in Fruit-Jar Covers, of which the following is a specification.

Our invention relates to an improvement in fruit jar covers, which with the special form of jar used, consists in certain shapes and proportions of related parts such that the jar can be easily cleaned, firmly seated, either end up, on an irregular surface, safely packed close together, quickly and effectively sealed, entirely emptied of air at the time of sealing, and easily opened. The means by which we accomplish these desirable objects are illustrated in the accompanying sheet of drawings which forms a part of this application, in which similar characters refer to similar parts in the different views, and in which—

Figure 1 is a partly sectionalized elevation of our improved jar; Fig. 2 is a plan view of the cover and Fig. 3 a plan view of the bottom of said jar with a portion omitted for lack of space.

More specifically: 1 is the cylindrical body of the jar, 2 the bottom, 3 an exterior, annular rib or flange around the upper end of said cylindrical body, 4 is the cover, 4' an annular rib on the lower side of said cover which, together with a part of the dome shaped bottom side of the same, lies below the top of the jar and displaces enough liquid from a full jar to cause some of the same to flow out of vent 10; 5, 5, 5, are three bosses on the top of said cover, 6, 6, 6, are three bosses on the lower surface of said bottom, 7 is a segmental boss on the top of said cover; 8 is a sealing disk partly encompassed by said segmental boss, shown as partly omitted in Fig. 2, 9 is a spring clip for temporarily retaining said cover on said jar, 10 is a vent hole through said cover located within said segmental boss, 11 is a sealing ring or gasket, and 12 is an annular boss having an obtuse-angled lower surface on the lower side of the rim of said cover.

As shown, the jar is made with plain, cylindrical body of such diameter that the hand can be readily inserted therein for the purpose of cleaning the same or packing fruit therein. The bottom is preferably flat or concaved outwardly and is joined to the

body in an easy curve, which is suited for easy cleaning, the three bosses 6, 6, 6, on the bottom give sufficient stability and permit of greater accommodation to irregular surface than is the case with the bottom of the ordinary jar, the annular rib 3 adds strength to the rim of the jar, affords a finger hold when carrying the same, and further affords a hold for the retaining clip 9. The rib 3 is of such size relatively to the rounded corner of the bottom of the jar that when an uncovered jar is inverted and placed by the side of a jar standing on its bottom, as shown in dotted outline at 1, the rib 3 does not touch the bottom of the neighboring jar. This permits of the easy and safe packing of the empty jars for shipment.

The obtuse-angle shape of the lower surface of the rim 12 of the cover 4 is more effective in securing a tight seal of said jar than if said surface were flat or rounded as is usual. The vent 10 in the lid 4 permits the escape of air when said lid is being placed on the completely filled jar, while rib 4', together with the crowned bottom of said cover, enters below the surface of the liquid in the top of said jar, displacing a quantity of the same and causing it to pass upward through vent 10 to the complete expulsion of air from the bottom of said cover and the top of said liquid. The segmental boss 7 localizes the sealing disk 8, while the opening in the same permits the easy overflow of liquid over the cover from vent 10, and also permits the easy introduction of an instrument under sealing disk 8 when it is desired to admit air into vent 10 in order to easily open a sealed jar.

In using this jar it is filled so that the liquid comes to the top of the same, the sealing ring 11 is placed over rib 4' which is of a size to retain said ring, the lid 4, with the vent 10 open, is then quickly placed on the top of the jar when, because of the displacement of liquid by the rib 4', all the air between said cover and said liquid will be carried upward through said vent together with a small quantity of said liquid. The disk 8 is then quickly placed over the vent 10 and within the segmental boss 7 and the clip 9 is quickly sprung over the rib 3 with its middle part resting on the center of disk 8. After the contents of the jar have cooled somewhat, the clip 9 can be removed and if desired the covered jar may be inverted and caused to stand on the three bosses 5, 5, 5.

To open the sealed jar, a suitable instrument is inserted under disk 8 and air allowed to enter through vent 10, when the cover can be easily removed. Any suitable material may be used in the construction of the several parts of this jar. However, for the jar and cover we prefer to use glass or porcelain, for the clip, steel, and for the sealing ring and disk, either rubber or waxed straw-board.

Having thus described our invention, we claim:—

1. In the cover of a jar having a vent through the same, the combination of a segmental boss on the upper side of said cover partly encompassing said vent, and a disk of suitable sealing material over said vent and within the confines of said boss.

2. In the cover of a jar having a vent through the same, the combination of a segmental boss on the upper side of said cover partly encompassing said vent, a disk of suitable sealing material over said vent and within the confines of said segmental boss, a plurality of bosses or extensions from said upper surface being higher above the same than said encompassing boss and being adapted to provide a stable base for said jar when the same is inverted on said cover, an annular boss on the lower side of said cover encompassing said vent, a sealing ring or gasket suited to fit over said boss, and a concave surface encompassed by said boss, said boss and said concave surface being adapted to displace the liquid in the upper part of said jar and force a quantity of the same

through said vent when said cover is placed on said jar.

3. In the cover of a jar having a vent through the same, the combination of a segmental boss on the upper side of said cover partly encompassing said vent, a disk of suitable sealing material over said vent and within the confines of said segmental boss, a plurality of bosses or extensions from said upper surface being higher above the same than said encompassing boss and being adapted to provide a stable base for said jar when the same is inverted on said cover, an annular boss on the lower side of said cover encompassing said vent, a sealing ring or gasket suited to fit over said boss, a concave surface encompassed by said boss, said boss and said concave surface being adapted to displace the liquid in the upper part of said jar and force a quantity of the same through said vent when said cover is placed on said jar, a jar being adapted to receive on its upper surface said sealing ring around said annular boss on said cover, and means being adapted for clamping said cover to said jar and said seal over said vent.

Signed at Bellingham in the county of Whatcom and State of Washington this 27th day of January A. D. 1909.

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Witnesses:

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