Q. A. GATES.

JAR CLOSURE.

APPLICATION FILED SEPT. 25, 1919.

1,438,033. Patented Dec. 5, 1922.

Fig. 1.

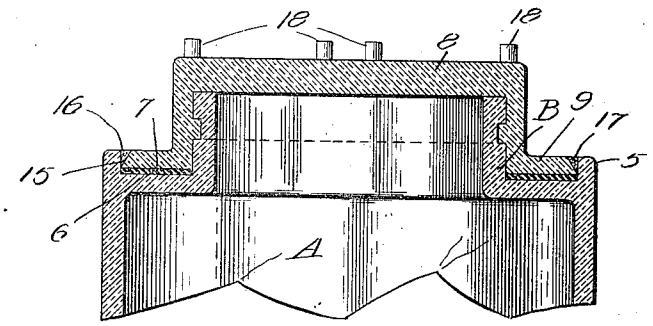


Fig. 2.

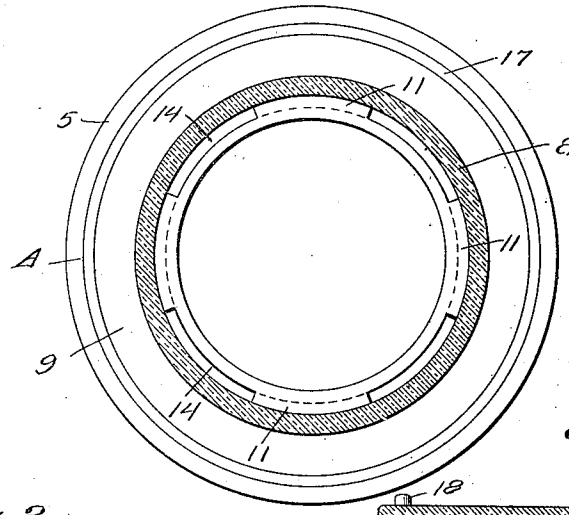


Fig. 3.

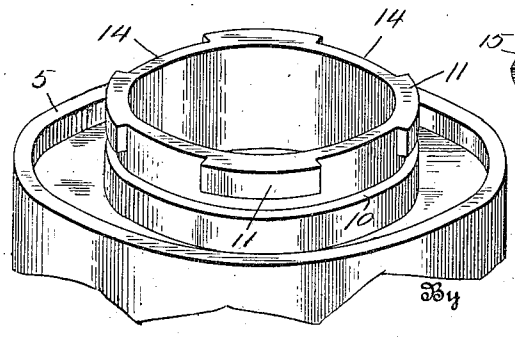
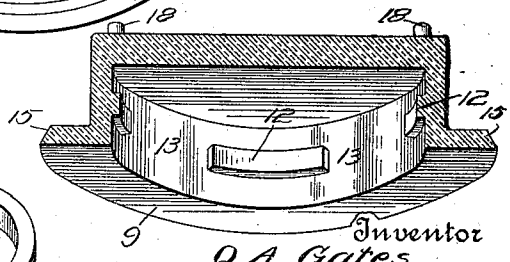


Fig. 4.



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UNITED STATES PATENT OFFICE.

QUINCY A. GATES, OF WILKES-BARRE, PENNSYLVANIA.

JAR CLOSURE.

Application filed September 25, 1919. Serial No. 326,291.

To all whom it may concern:

Be it known that I, QUINCY A. GATES, a citizen of the United States, residing at Wilkes-Barre, in the county of Luzerne and State of Pennsylvania, have invented certain new and useful Improvements in a Jar Closure, of which the following is a specification.

The invention relates to a receptacle and closure, therefor, and more particularly to the class of jars and sealing caps for the same.

The primary object of the invention is the provision of a jar, wherein the body of the same concentric of its neck is formed with a flange or bead so as to provide a groove or channel for the reception of a gasket and also the rim of a cap which is adapted to be detachably fastened to the neck, the rim being constructed in a manner to permit the use of paraffin or other sealing medium, after the application of the cap to the jar, thereby firmly sealing the mouth of the jar to exclude air from the interior thereof.

Another object of the invention is the provision of a jar of this character, where the neck end thereof is constructed in a novel manner, and likewise the cap is of novel form to enable the complete sealing of the contents of the jar, by the use of a resilient gasket and paraffin or other sealing medium.

A further object of the invention is the provision of a jar of this character and its closure cap, the same being simple in construction, thoroughly reliable and efficient in purpose and inexpensive to manufacture.

With these, and other objects in view, the invention consists in the features of construction, combination and arrangement of parts, as will be hereinafter fully described, illustrated in the accompanying drawings, and pointed out in the claims hereunto appended.

In the accompanying drawings:

Fig. 1, is a fragmentary, vertical, sectional, view through a jar and its closure cap constructed in accordance with the invention.

Fig. 2, is a horizontal sectional view of the cap showing the same in lock position upon the jar.

Fig. 3, is a fragmentary perspective view of the jar with the cap removed.

Fig. 4, is a perspective sectional view of the cap removed from the jar.

Similar reference characters, indicate corresponding parts throughout the several views in the drawings.

Referring to the drawing in detail, A designates a portion of the body of a jar preferably made from glass although the same may be made from any other suitable material, while in this instance the said body of the jar is of a cylindrical contour, yet it may be of any other shape found expedient and formed on the body is a circular neck B, forming the mouth opening thereto, the neck being spaced inwardly relative to a vertical annular flange or bead 5, formed on the body A, concentrically of the neck B, and constituting a continuation of the side wall of said body, whereby a groove or channel 6, is provided at the top of the body and encircles the neck B to provide a flat annular gasket seat for receiving a resilient gasket or rubber sealing ring 7 therein for a purpose presently described.

Telescoped upon and removably engaged with the neck B, on the body A of the jar, is a closure cap or cover 8 having a flat top, formed with a laterally extending outturned annular rim 9 of a width correspondingly to the width of the groove or channel 6, to be received therein on the fastening of the cap or cover 8 upon the neck.

The neck B at its outer end portion exteriorly thereof is reduced to form a shoulder 10, while upon this reduced portion at the outer face of the same spaced vertically from the shoulder 10, are segmental shaped locking lugs 11, arranged spaced from each other to cooperate with companion internal segmental shaped locking lugs 12, on the cap 8, the lugs 12 being spaced from each other to provide gaps 13 therebetween for receiving the lugs 11 on the neck B, and likewise the said lugs 11, upon the latter are suitably spaced to provide the gaps 14, for receiving the lugs 12, upon the cap so that on the application of the same, to the neck B and the turning thereof the said cap will be securely locked upon the neck as it is clearly shown in Figs. 1 and 2 of the drawing.

In the positioning of the cap or cover 8, upon the neck the lugs 12 interiorly the caps are brought into position by slight rotation thereof to register with the gaps 14 between the lugs 11 on the neck and the said lugs 11 are then positioned to register with the gaps 13 so that the cap can be pressed onto the neck and its lugs 12 rest upon the shoul-

der whereupon the cap or cover 8 is further rotated thereby locking the lugs 11 and 12 together and this position of the cap compresses the gasket 7 in the seat 6 by the action of the rim 9 upon said gasket thereby firmly sealing the cap upon the jar.

The rim 9 of the cap or cover 8 at its outer periphery is formed with a beveled edge 15, so that when the said rim is located between the neck B and the flange 5 a sealing medium receiving space 16 will be provided between said edge 15 and the adjacent face of the flange 5, on the body A of the jar. In this receiving space 16 is adapted to be poured paraffin or other sealing medium 17, thereby completely and positively sealing the cap or cover 8 upon the jar.

On the marginal portion of the top of the cap or cover 8, at diametrically opposite points, are arranged vertically disposed combined spacing and supporting lugs 18 having flat tops, positioned in spaced relation with respect to each other and which permit the stacking of the jars one upon the other when capped and sealed. The lugs 18 also being designed to permit the engagement of a suitable tool or instrument thereto for the easy application of the cap or cover 8 or its removal from the jar. Each of the lugs 18 is cylindrical throughout and having a squared or flat top.

What is claimed is:

1. A receptacle comprising a body portion with an annular neck, an annular cap detachably engaging with said neck and having a flat top, and a series of vertically disposed lugs integral with and arranged throughout the marginal portion of the top of the cap in close proximity to the edge of the latter and positioned in spaced relation with respect to each other and constituting combined supporting and spacing elements for stacking receptacles in superposed relation.

2. A receptacle comprising a body portion with an annular neck, an annular cap detachably engaging with said neck and having a flat top, and a series of vertically disposed lugs integral with and arranged throughout the marginal portion of the top of the cap in close proximity to the edge of the latter and positioned in spaced relation with respect to each other and constituting combined supporting and spacing elements for stacking receptacles in superposed relation, each of said lugs being cylindrical throughout and having the top thereof flat.

3. A receptacle comprising a body portion with an annular neck, an annular cap detachably engaging with said neck and having a flat top, and a series of vertically disposed lugs integral with and arranged throughout the marginal portion of the top of the cap in close proximity to the edge of the latter and positioned in spaced relation with respect to each other and constituting combined supporting and spacing elements for stacking receptacles in superposed relation, certain of said lugs arranged closer to each other than the other of said lugs.

In testimony whereof, I affix my signature hereto.

QUINCY A. GATES.

Witness:
FLORENCE MOORE.