

No. 662,757.

Patented Nov. 27, 1900.

M. BIRNEY.
JAR CLOSURE.

(Application filed Dec. 13, 1899.)

(No Model.)

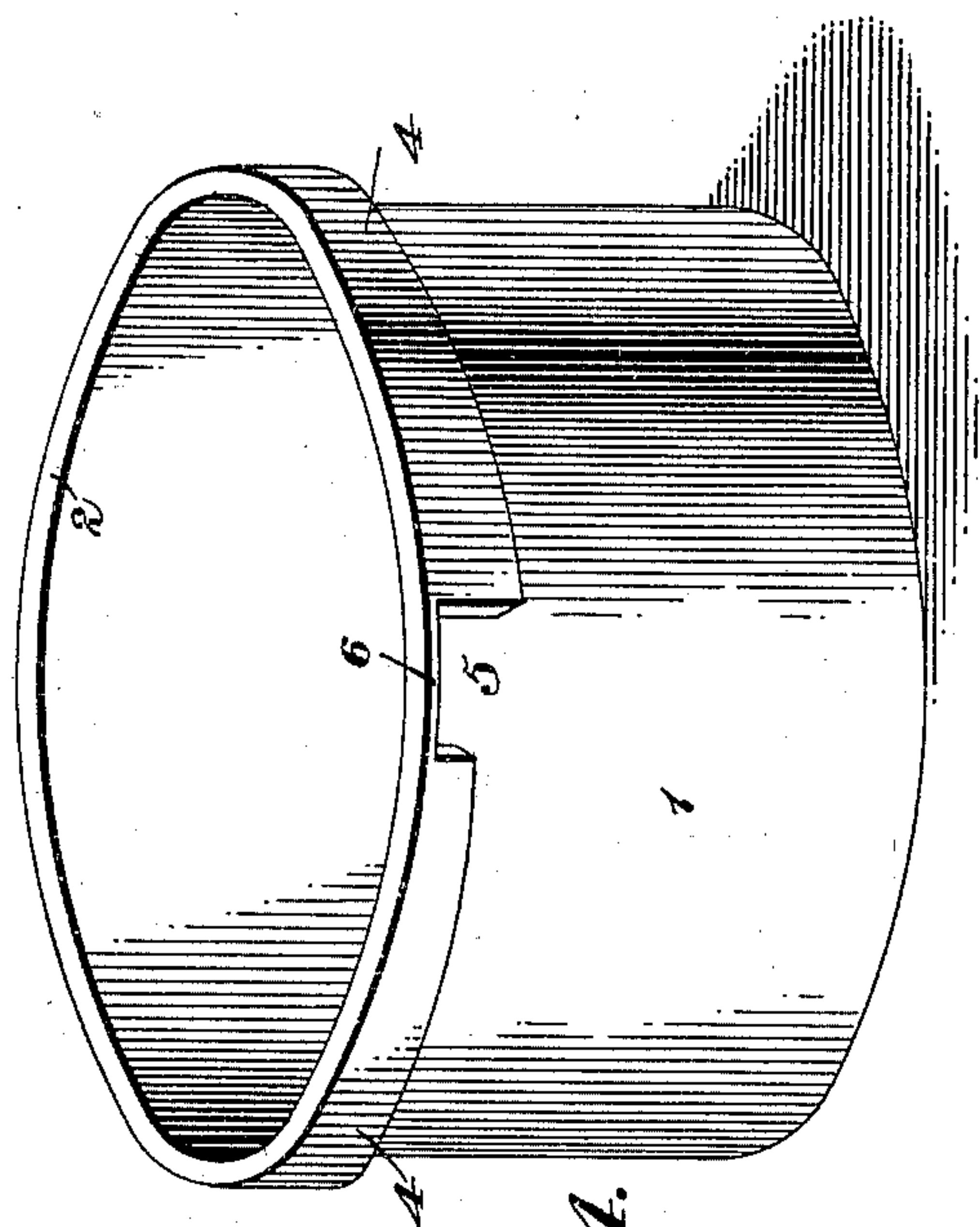


Fig. 4.

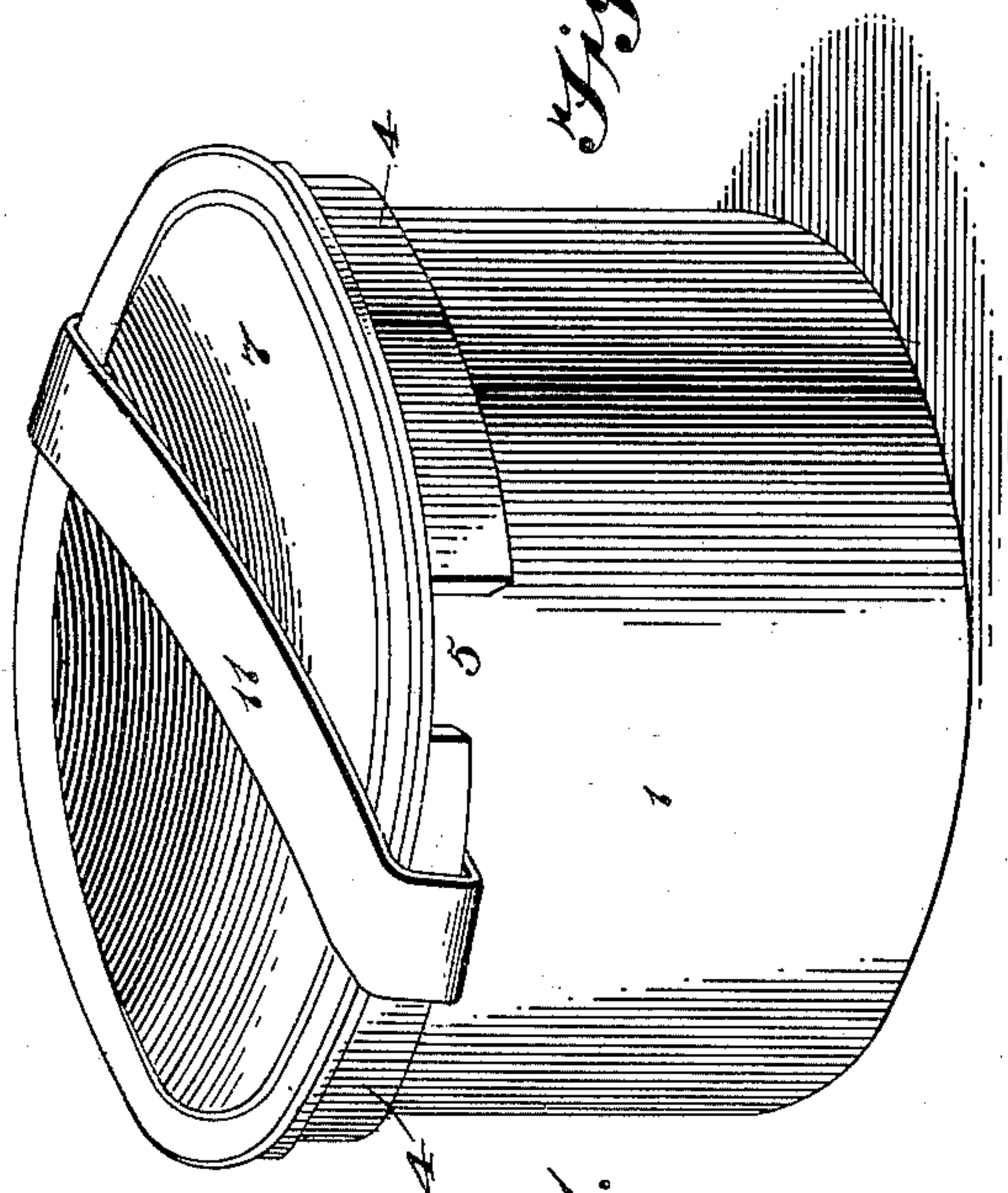


Fig. 1.

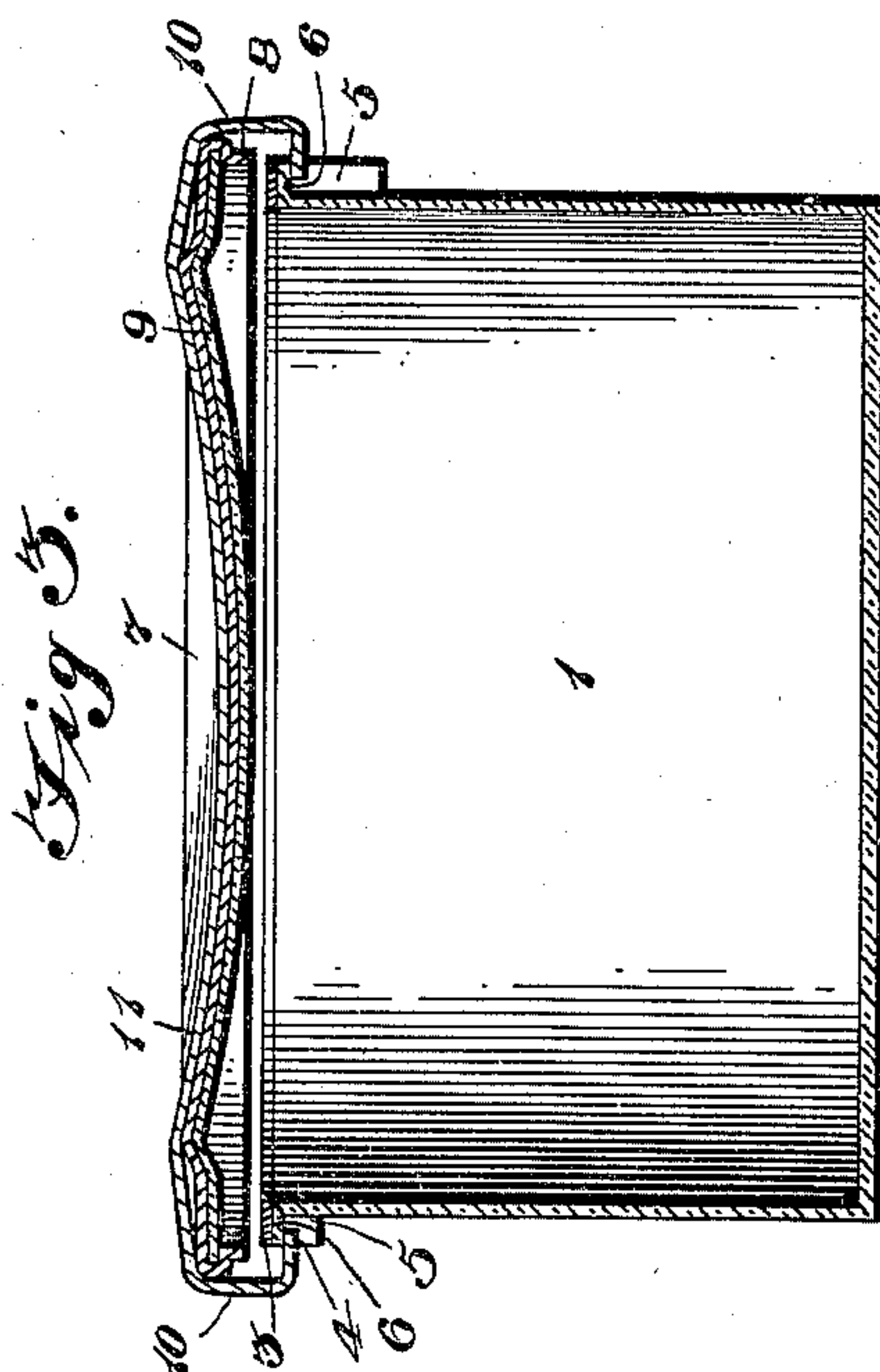


Fig. 3.

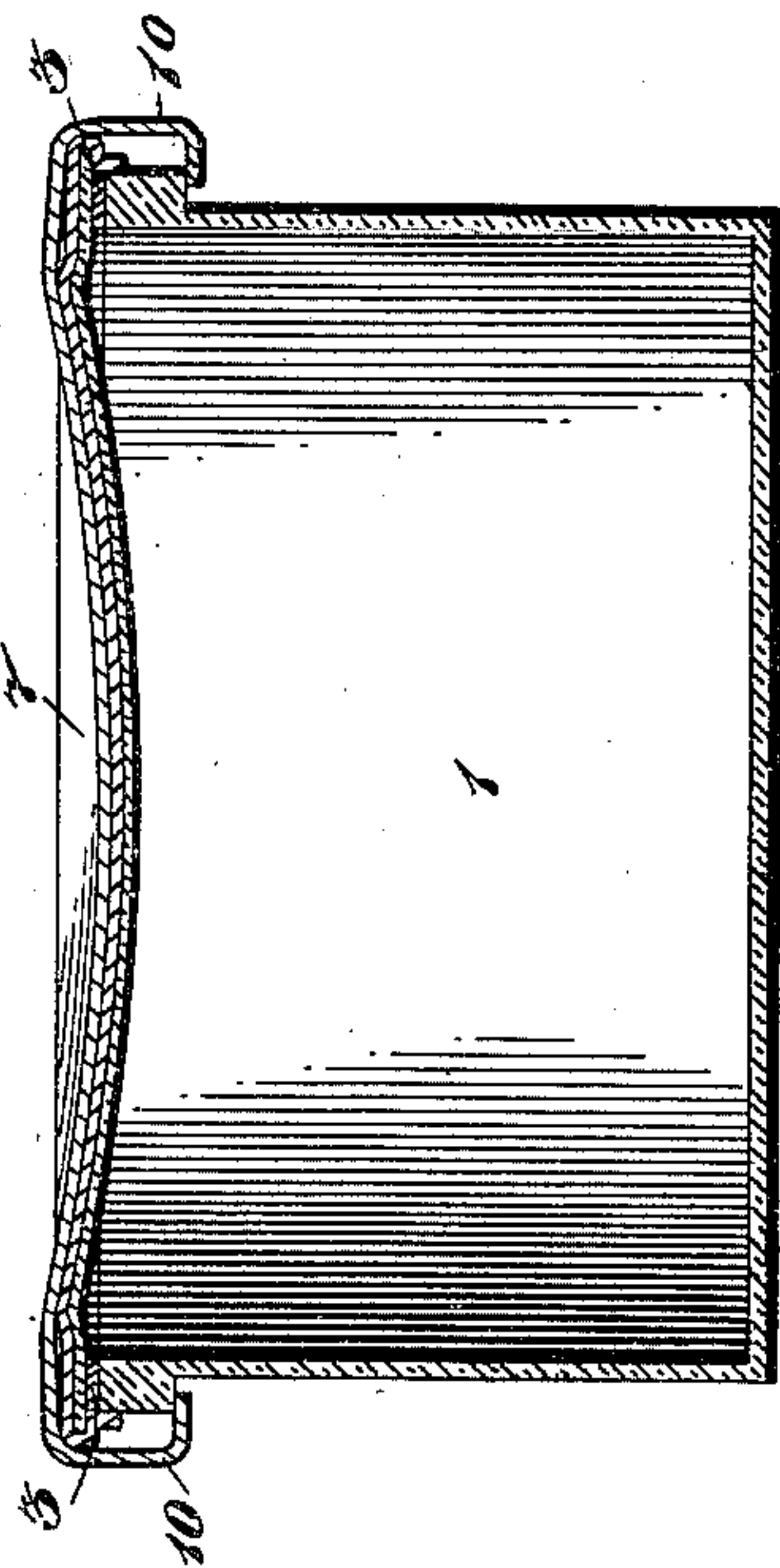


Fig. 2.

Witnesses

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UNITED STATES PATENT OFFICE.

MAE BIRNEY, OF NEW WHATCOM, WASHINGTON.

JAR-CLOSURE.

SPECIFICATION forming part of Letters Patent No. 662,757, dated November 27, 1900.

Application filed December 13, 1899. Serial No. 740,196. (No model.)

To all whom it may concern:

Be it known that I, MAE BIRNEY, a citizen of the United States, residing at New Whatcom, in the county of Whatcom and State of Washington, have invented a new and useful Jar-Closure, of which the following is a specification.

This invention relates to packing and storing vessels, and has for its objects to provide an improved liquid-tight closure therefor, to facilitate the application and removal of the cover, and to prevent entire removal thereof should the clamping devices become accidentally disengaged.

With these and other objects in view the present invention consists in the combination and arrangement of parts, as will be hereinafter more fully described, shown in the accompanying drawings, and particularly pointed out in the appended claim, it being understood that changes in the form, proportion, size, and minor details may be made within the scope of the appended claim without departing from the spirit or sacrificing any of the advantages of the invention.

In the drawings, Figure 1 is a perspective view of a jar having a closure constructed in accordance with the present invention. Fig. 2 is a longitudinal sectional view thereof. Fig. 3 is a similar sectional view illustrating the manner of preventing accidental displacement of the cover. Fig. 4 is a detail perspective view of a jar, the cover being removed therefrom.

Corresponding parts in the several figures of the drawings are designated by like characters of reference.

Referring to the accompanying drawings, 1 designates a cylindrical jar, preferably formed of porcelain or glass, so as to prevent injury to the contents of the jar. Surrounding the mouth of the jar is an outwardly-directed marginal flange 2, which is continuous and unbroken, so as to form a gasket or packing-seat for a suitable packing-ring 3. Provided exteriorly of the jar is a plurality of spaced locking-flanges 4, which fit flush against the inner side of the marginal flange 2 and preferably formed integral therewith, the outer or lower edges of the locking-flanges being inclined in the same direction, so as to form cam-faces.

As best shown in Fig. 4 of the drawings the marginal flange 2 bridges the spaces 5 between the adjacent ends of opposite locking-flanges, so as to form stop flanges or shoulders 6, which are of the same width as the locking-flanges.

The cover 7 is preferably of metal, having a pendent marginal flange 8, within which is held a porcelain or glass lining 9, so as to prevent contact of the metal cover with the contents of the jar. Located at opposite edges of the cover are the hook-shaped clamps 10, which are designed to engage the lower cam-faces of the locking-flanges, so that when the cover is turned in one direction the clamps will bind upon the locking-flanges and clamp the cover tightly upon the packing-ring 3. A reverse movement of the cover will loosen the latter, as will be understood.

By reference to Fig. 3 of the drawings it will be seen that when the clamps 10 are received within the spaces 5 between the locking-flanges the stop shoulders or flanges 6 overhang the inner extremities of the clamps, and thereby prevent accidental removal of the cover. In order that the cover may be removed, the inner ends of the clamps do not engage with the exterior of the jar, whereby the cover has a lateral movement to draw one of the clamps clear of the adjacent stop-shoulder, after which the cover may be tilted upon the opposite clamp as a fulcrum, and in this manner the cover may be removed. The cover is fitted to the jar by a reverse movement—i. e., one of the hooks is placed within one of the spaces 5 and beneath the adjacent stop-shoulder 6, so that the cover may be moved downwardly with the opposite clamp outward from the adjacent stop-shoulder, after which the cover is turned so as to bind the clamps upon the locking-flanges.

It is preferable to provide a dished cover and to form the clamps from a single metal strip 11, which is soldered or otherwise secured diametrically across the outer side of the cover, so as to stiffen and strengthen the latter, and the opposite ends of this strip are bent into the hook-shaped clamps.

What I claim is—

The combination with a jar having a continuous, radially-extending flange at its mouth and adjacent locking-flanges forming

continuations of the lower edge of the first-named flange, the locking-flanges being separated at their ends by interspaces and having their lower edges slanted in the same direction rotatably of the jar, and the first-named flange extending radially to an extent equal to the radial extension of each locking-flange, a cover adapted to rest upon the upper edge of the jar and having its upper face concaved, and a rigid clamping-plate having a central arc-shaped portion shaped to fit the depression of the cover, the ends of the plate being turned downwardly and inwardly to engage under the locking-flanges, and which intumed portions are of a width to enter and fit the interspaces between the locking-flanges, and the separation of the ends of the intumed portions being greater than the sep-

aration of the rear walls of the interspaces and less than the diameter of the jar through the locking-flanges, whereby, when the intumed ends are engaged with the flanges, they may be operated rotatably to draw the plate downwardly and clamp the cover on the jar, and when the intumed ends are engaged with the interspaces between the locking-flanges, the plate may be moved longitudinally to disengage one intumed end over the first-named flange.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

MAE BIRNEY.

Witnesses:

W. P. FLESHER,

J. W. GOODHEART.