

No. 813,276.

PATENTED FEB. 20, 1906.

F. G. BURLEY.
JAR CLOSURE.

APPLICATION FILED MAY 5, 1905.

FIG. 1.

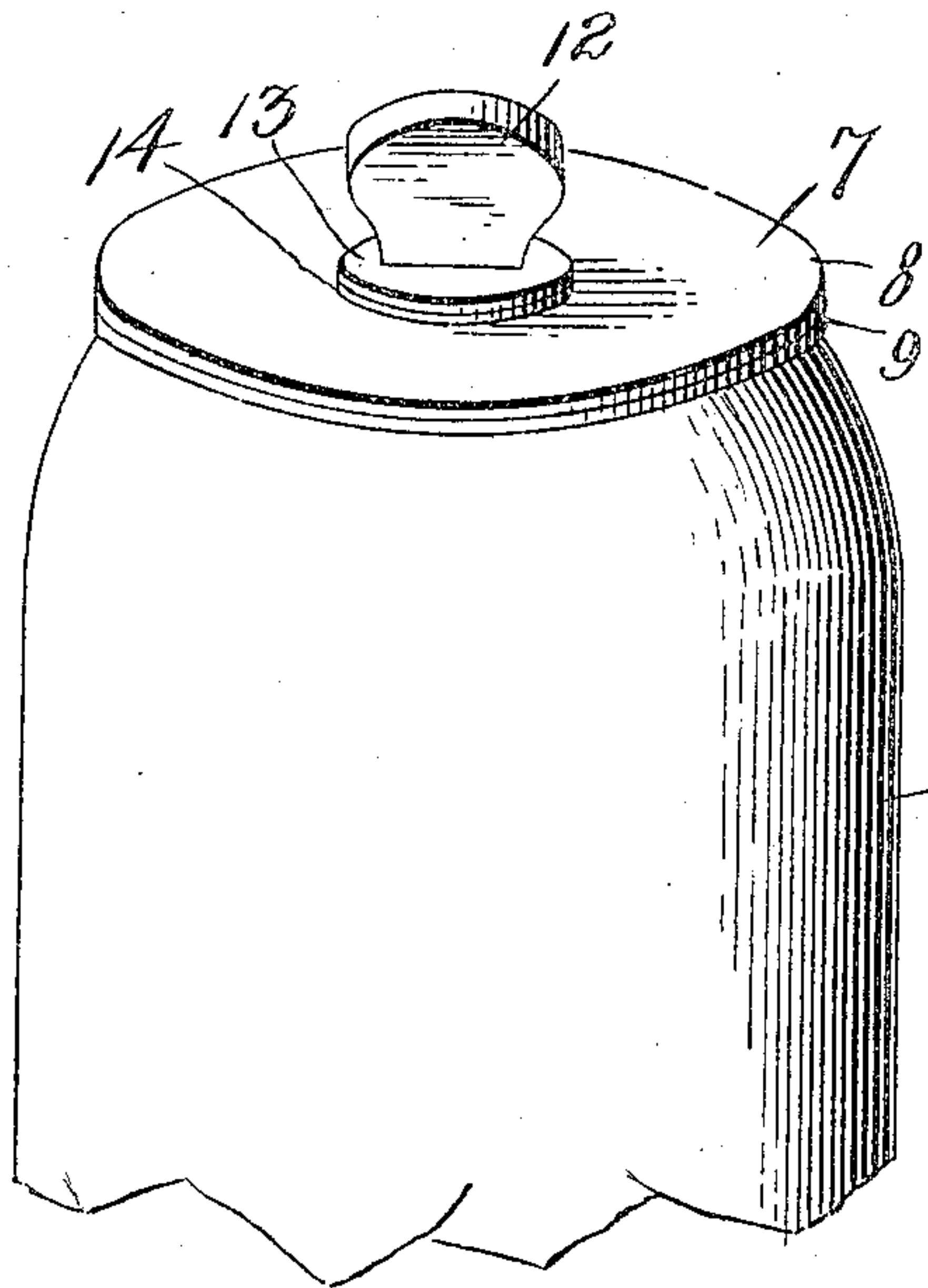


FIG. 2.

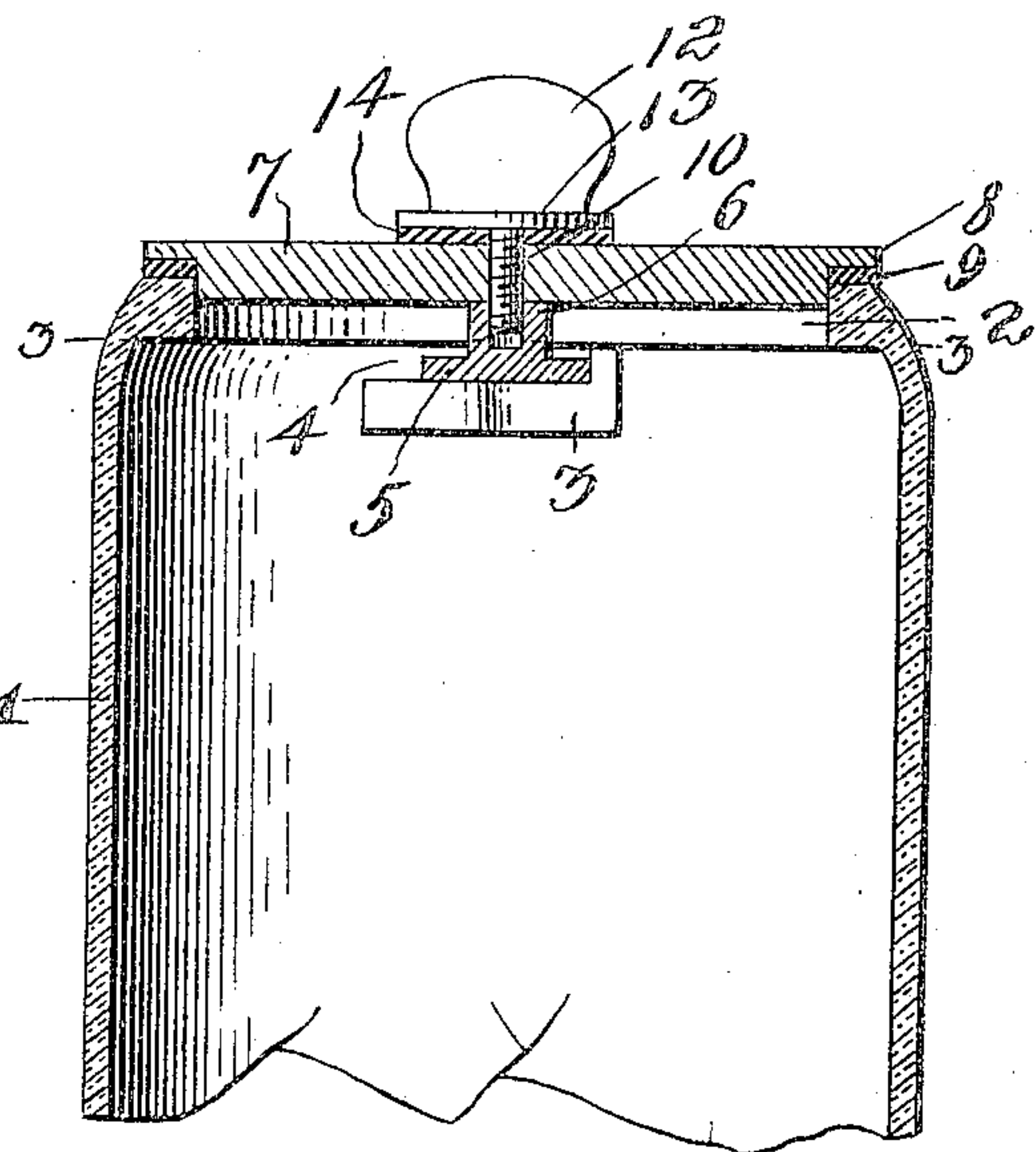


FIG. 4.

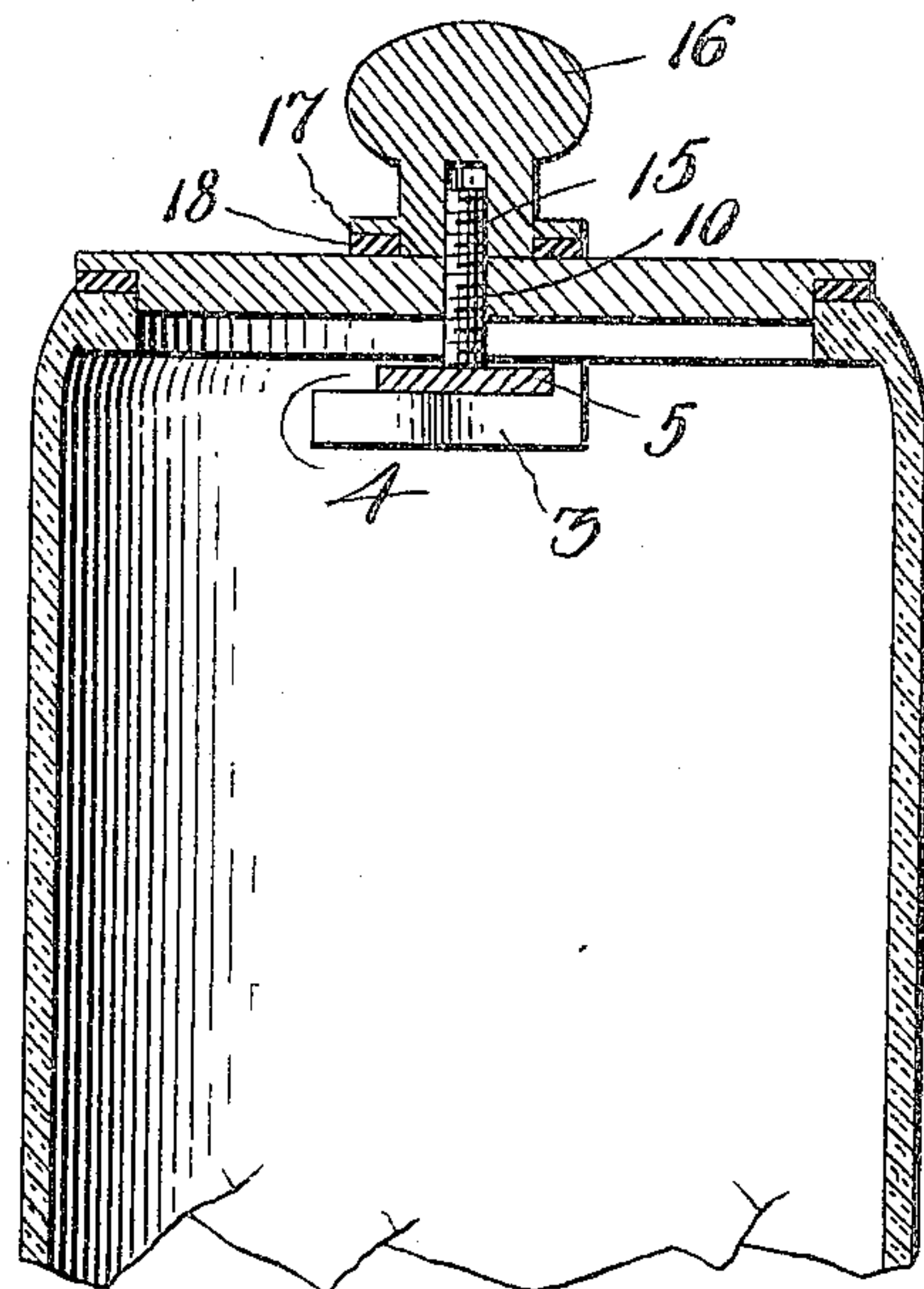
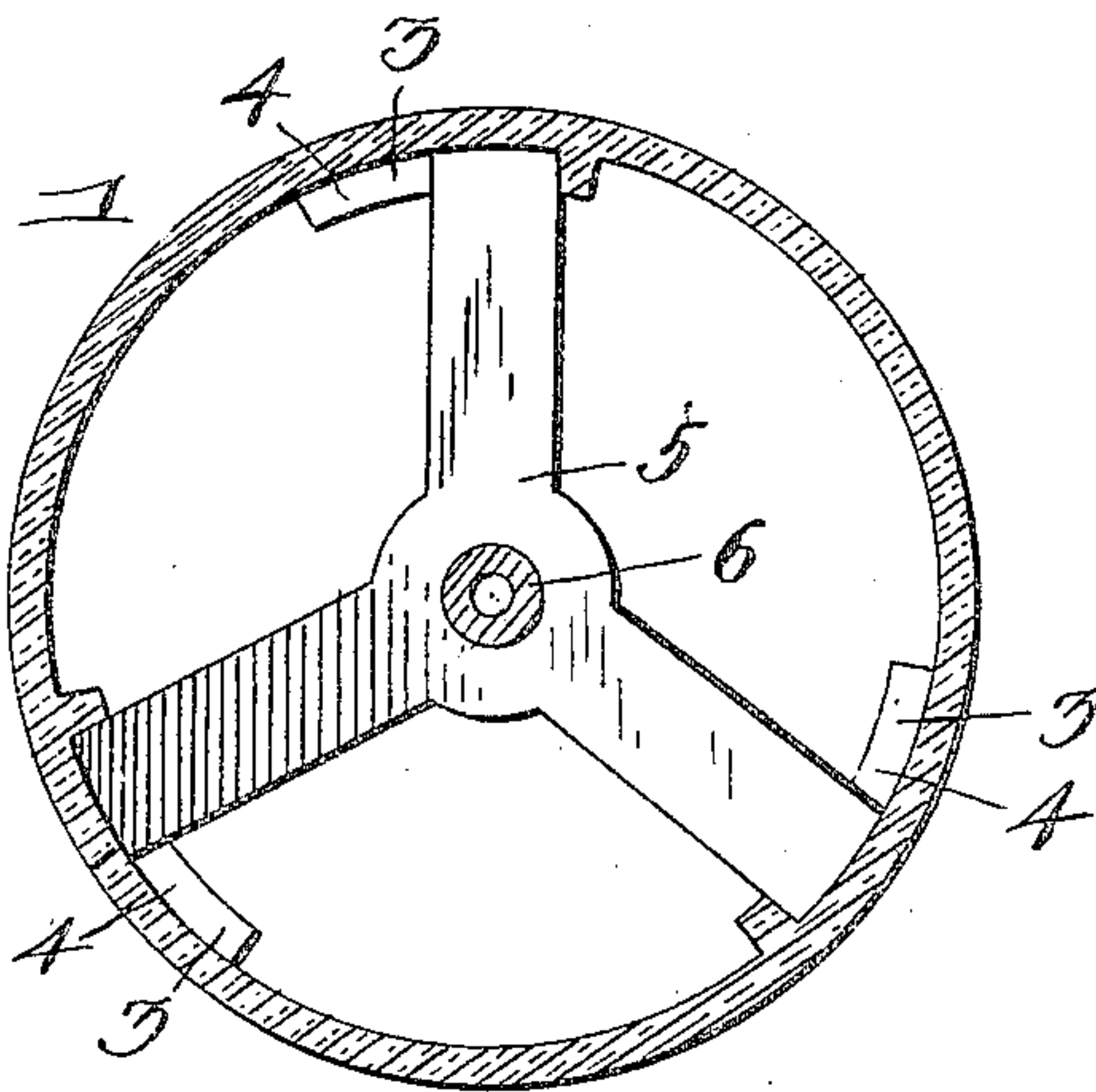


FIG. 3.



Witnesses
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UNITED STATES PATENT OFFICE.

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JAR-CLOSURE.

No. 813,276.

Specification of Letters Patent.

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Application filed May 5, 1905. Serial No. 258,949.

To all whom it may concern:

Be it known that I, FRANKLIN G. BURLEY, a citizen of the United States, residing at Boston, in the county of Suffolk and State of Massachusetts, have invented certain new and useful Improvements in Jar - Closures; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to improvements in jar-closures.

The object of the invention is to provide a cover for jars which may be securely clamped into engagement with the top of the jar to form an air-tight closure for the same and which may be readily loosened to permit the removal of the same from the jar.

With the above and other objects in view the invention consists of certain novel features of construction, combination, and arrangement of parts, as will be hereinafter described and claimed.

In the accompanying drawings, Figure 1 is a perspective view of the upper end of a jar, showing the application of the invention thereto. Fig. 2 is a vertical longitudinal sectional view of the same. Fig. 3 is a horizontal sectional view taken on the line 3 3 of Fig. 2. Fig. 4 is a vertical sectional view showing a modified construction of clamping device for holding the cover in place on a jar.

Referring more particularly to Figs. 1, 2, and 3 of the drawings, 1 denotes a jar, on the upper end of which is formed an inwardly-projecting annular flange 2. Below the flange 2 are formed a series of radially-disposed brackets 3, said brackets forming between themselves and the under side of the flange 2 slots or recesses 4. There are preferably three of the brackets 3 formed in each jar, said brackets being spaced at equal distances apart around the interior of the jar, and each of the same is provided with an upwardly-projecting integral portion forming stops at the end of the slots or recesses 4.

Supported upon the brackets 3 is a spider 5, the three radial arms of which are adapted to engage the slots or recesses 4 between the brackets and the inner edge of the annular flange 2. Formed or otherwise arranged on the upper side of the spider 5 is an upwardly-projecting centrally-disposed hollow boss 6, said boss being provided with interior screw-threads.

On the top of the jar is adapted to be placed

a cover-plate 7, said plate being provided with a radially-projecting annular flange 8, which is adapted to engage the edges of the jar around the mouth of the same, and between said flange and the edge of the jar is arranged a packing-ring or gasket 9. The plate or cover 7 is provided with a centrally-arranged opening 10, through which is adapted to be passed the threaded shank of a thumb-screw 12. Said threaded shank is adapted to be screwed into engagement with the interior threaded boss 6 to clamp said plate into air-tight engagement with the top of the jar. The thumb-screw 12 is provided with a head in the form of a circular disk 13, between which and the adjacent surface of the cover-plate is arranged a washer or gasket 14, whereby an air-tight connection is formed by the same and the cover-plate.

In Fig. 4 of the drawings in place of the threaded boss 6 is provided an upwardly-projecting exteriorly-threaded pin or bolt 15, which is adapted to project upwardly through the opening 10 of the cover-plate, and onto the projecting end of said bolt is adapted to be screwed a thumb-nut 16, in which is formed an interiorly-threaded socket to engage the projecting end of said bolt. The nut 16 is provided on its lower end with an annular flange 17, between which and the adjacent surface of the cover-plate is arranged a washer 18.

By the use of a cover constructed and arranged as herein shown and described an air-tight closure is provided for jars which when desired may be readily loosened and removed therefrom.

From the foregoing description, taken in connection with the accompanying drawings, the construction and operation of the invention will be readily understood without requiring a more extended explanation.

Various changes in the form, proportion, and the minor details of construction may be resorted to without departing from the principle or sacrificing any of the advantages of this invention.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. In a jar-closure, the combination with the body of the jar having an inwardly-projecting annular flange formed around the mouth of the same, radially-disposed brackets arranged on the inner wall of said body below said flange, a spider frame supported

on said brackets and adapted to engage beneath said flange, a flanged cover-plate arranged on said jar, and means to connect said plate and spider and to clamp said cover-plate into air-tight engagement with the top of the jar, substantially as described.

2. In a jar-closure, the combination with the body of the jar having an inwardly-projecting annular flange formed around the mouth of the same, radially-disposed brackets arranged on the inner wall of said jar, a spider frame the arms of which are adapted to engage said brackets beneath said annular flange, a concentrically-disposed, hollow, interiorly-threaded boss formed on said spider, a flanged cover-plate arranged on said jar,

said plate being provided with a concentrically-disposed opening, a thumb-screw adapted to be passed through said opening and screwed into said threaded boss thereby clamping said cover-plate into air-tight engagement with the top of the jar, and gaskets arranged between said plate and jar and between said thumb-screw and plate, substantially as described.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

FRANKLIN G. BURLEY.

Witnesses:

JOHN D. MCCARTHY,
MARY C. NYMAN.