

No. 676,932.

Patented June 25, 1901

A. E. BRAY.  
FRUIT JAR.

(Application filed July 20, 1897.)

(No Model.)

Fig. 1.

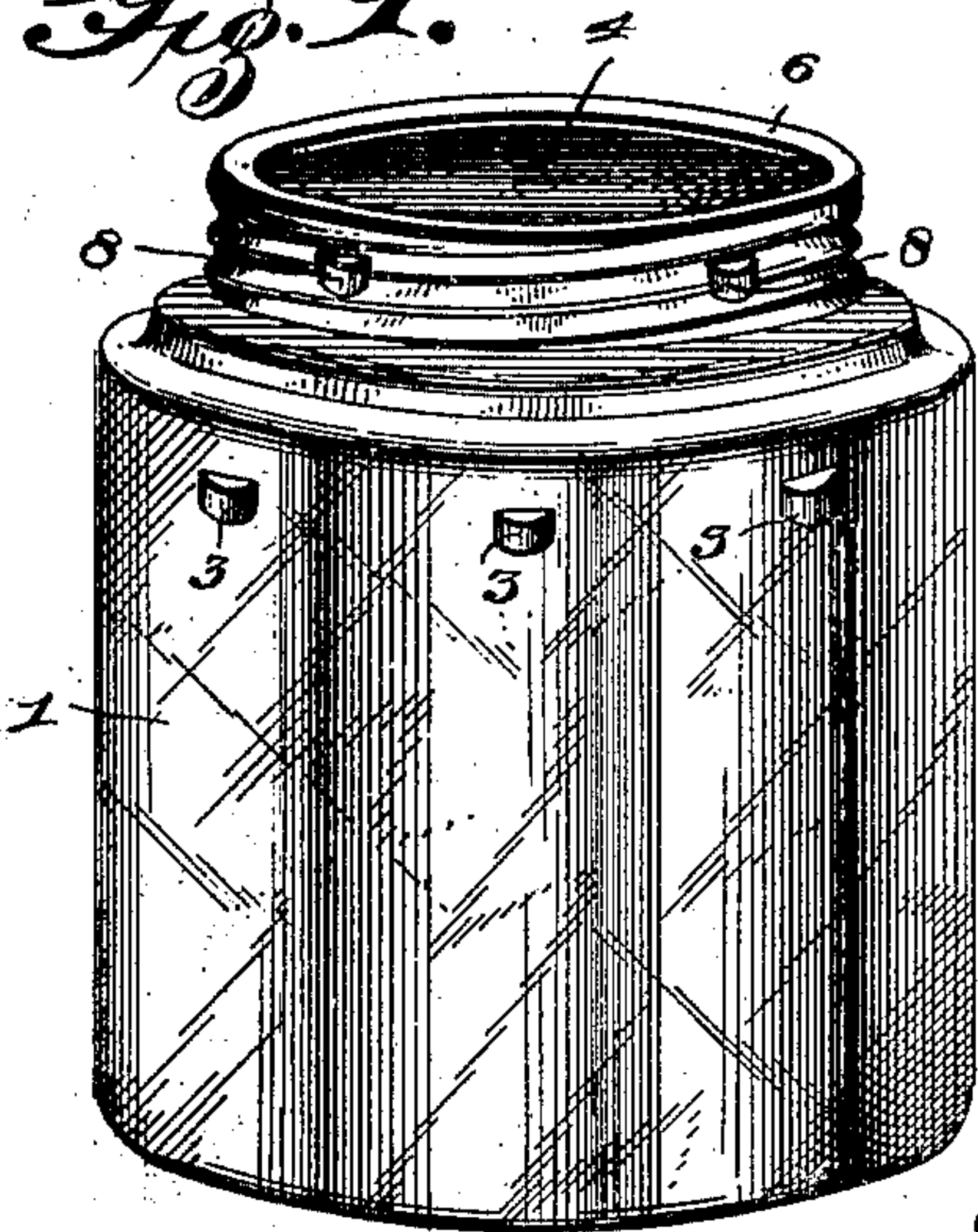


Fig. 2.

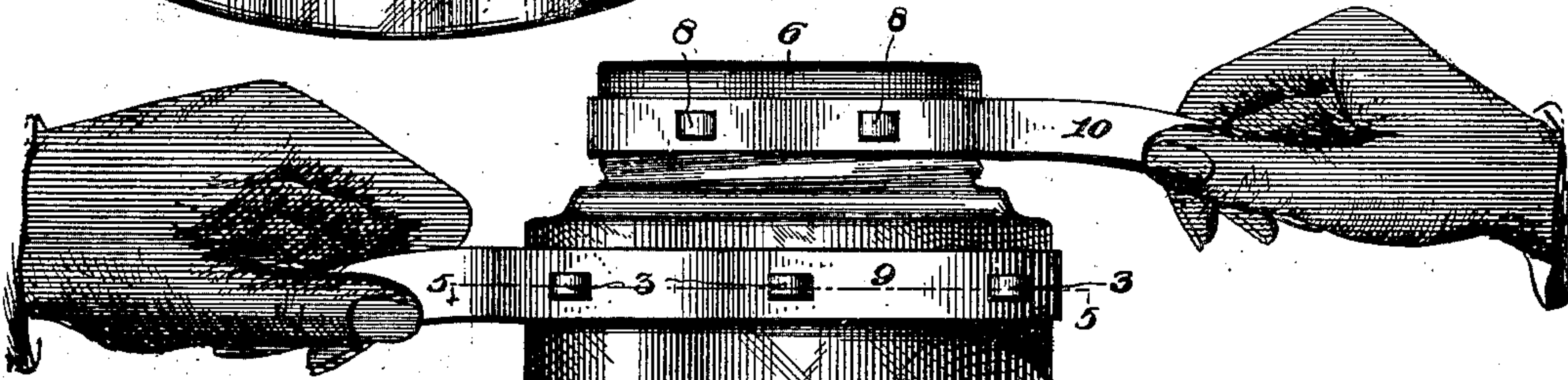
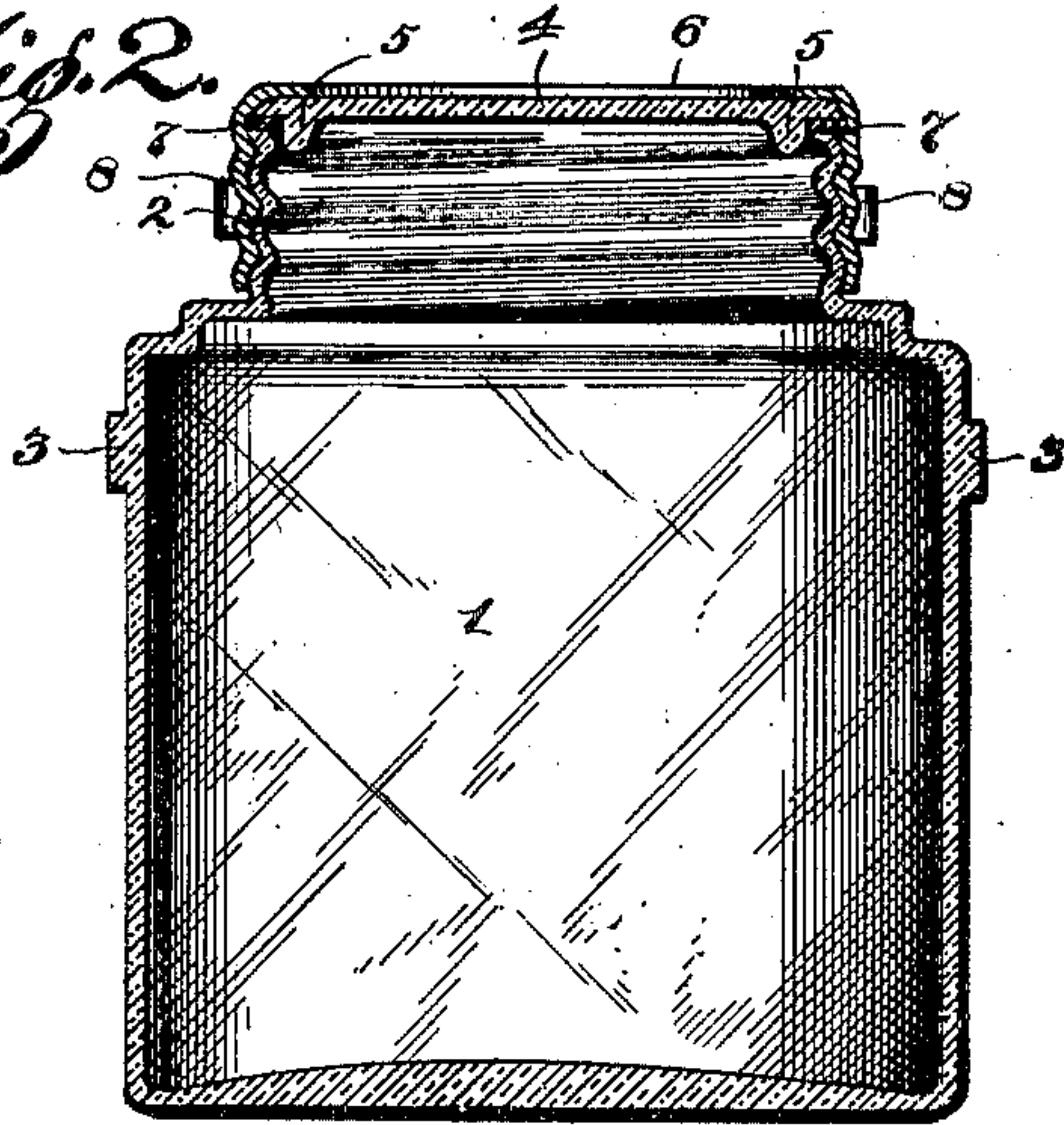


Fig. 3.

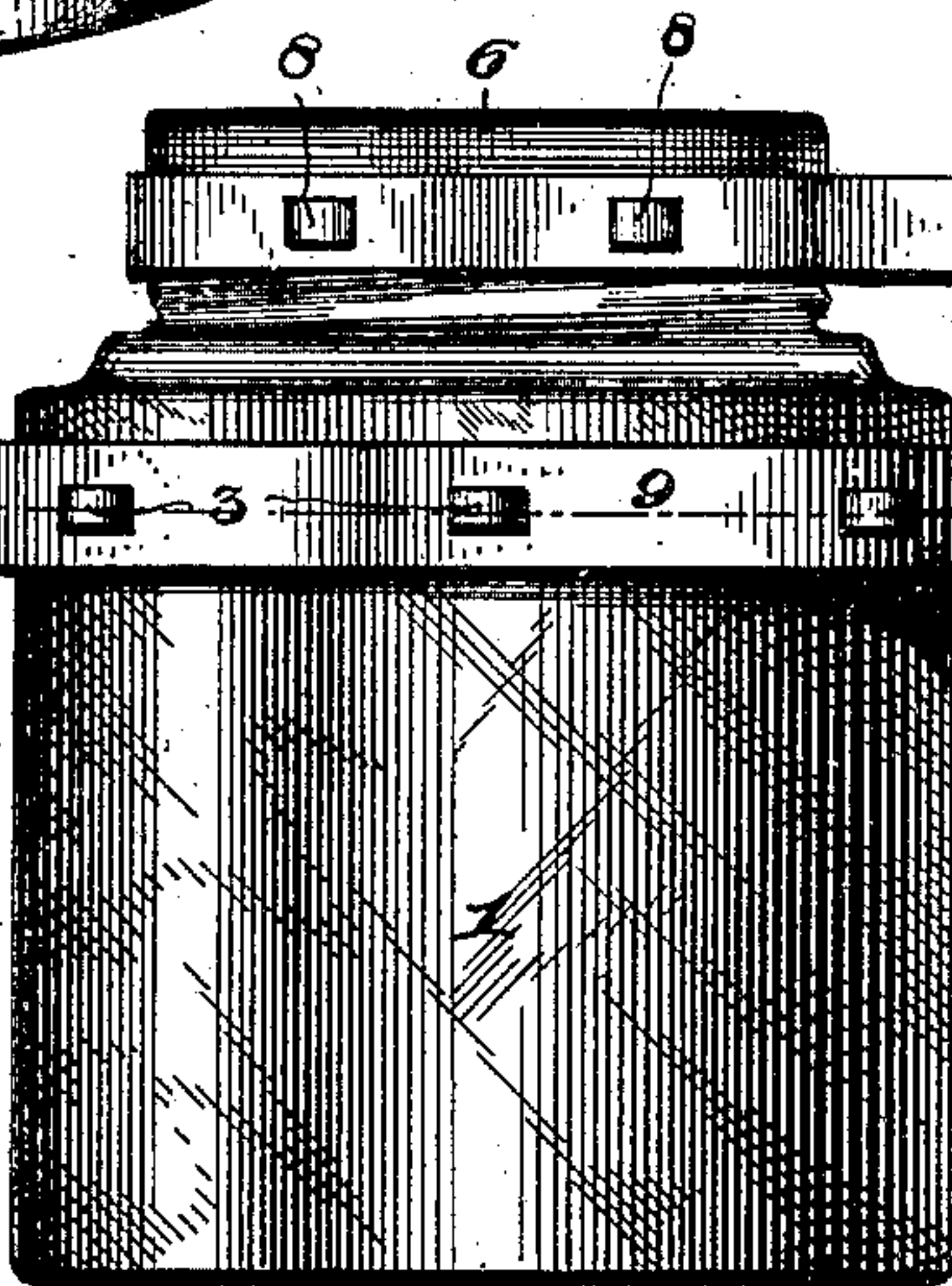


Fig. 4.

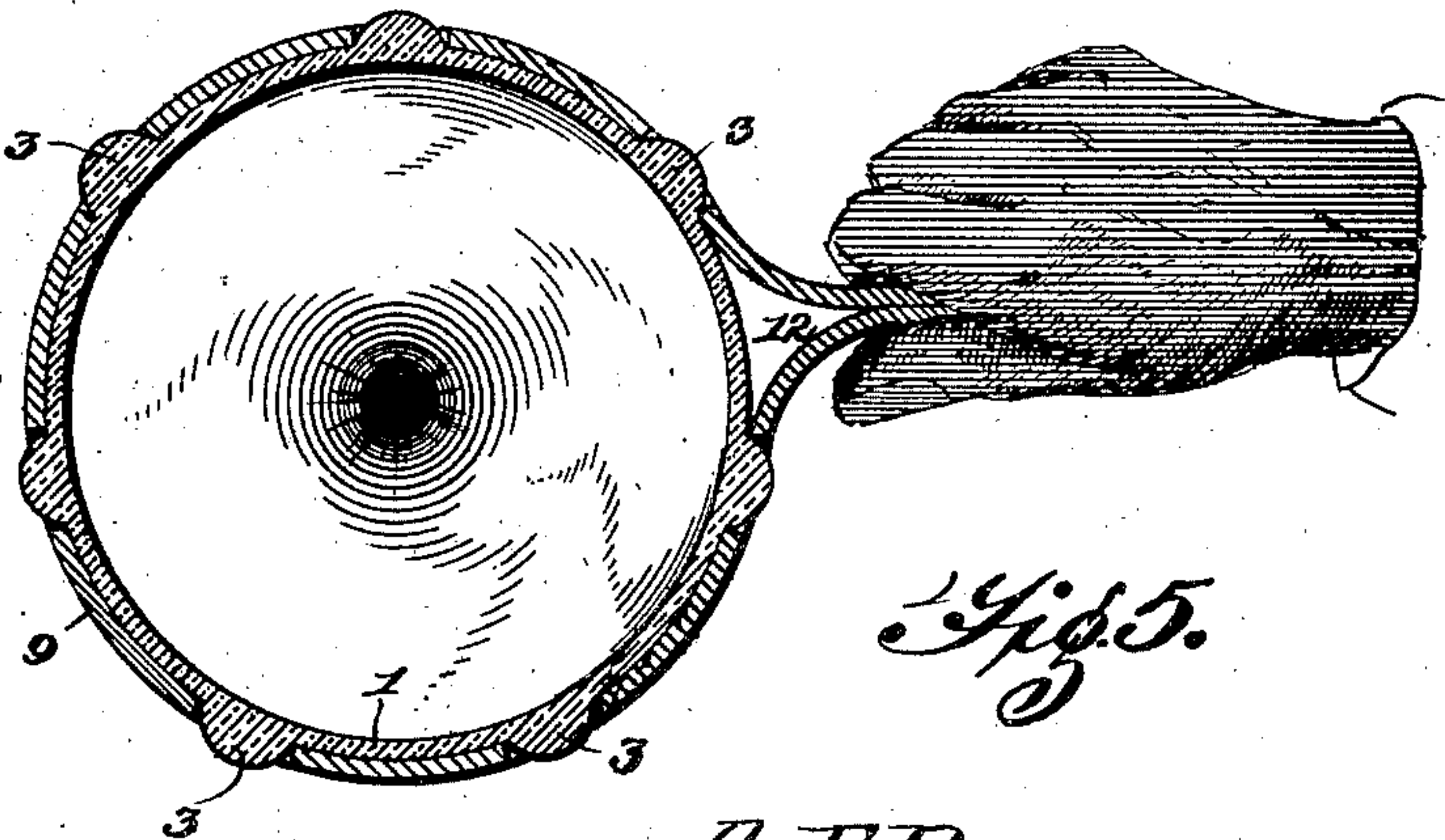


Fig. 5.

Witnesses

*John Dunder*  
*W. B. Shepard*

A. E. Bray Inventor

by *C. A. Snow & Co.*  
Attorneys



# UNITED STATES PATENT OFFICE.

ANN ELIZA BRAY, OF LOS GATOS, CALIFORNIA.

## FRUIT-JAR.

SPECIFICATION forming part of Letters Patent No. 676,932, dated June 25, 1901.

Application filed July 20, 1897. Serial No. 645,295. (No model.)

*To all whom it may concern:*

Be it known that I, ANN ELIZA BRAY, a citizen of the United States, residing at Los Gatos, in the county of Santa Clara and State of California, have invented certain new and useful Improvements in Fruit-Jars, of which the following is a specification.

This invention relates to packing and storing vessels, and has for its object to provide an improved jar for containing preserved fruit and for preventing the latter from fermenting. It is furthermore designed to provide an improved closure for the jar, so as to facilitate the application and removal of the closure and also to insure the tight fitting of the latter, and, finally, to equip the jar with an improved wrench attachment for convenience in applying and removing the cover of the jar.

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 claims, it being understood that changes in the form, proportion, size, and minor details may be made within the scope of the claims 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 fruit-jar constructed in accordance with the present invention. Fig. 2 is a transverse sectional view taken through the neck and closure of the jar. Fig. 3 is a detail view illustrating the application of the wrench attachment for tightening and removing the closure or cover. Fig. 4 is a detail view of a portion of one of the wrench-bands. Fig. 5 is a transverse sectional view taken on the line 5 5 of Fig. 3.

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

Referring to the drawings, 1 designates the body of the jar, which is preferably cylindrical in shape and having a neck portion 2, which is but slightly smaller in diameter than the body, so as to afford the largest possible mouth or entrance into the jar, thereby permitting of the entrance of whole fruit. The outer side of this upstanding circular neck

portion is provided with screw-threads formed integrally therewith, while the upper edge of the neck is flat. Upon the body of the jar and adjacent to the neck thereof there is formed a marginal series of outwardly-directed studs or projections 3, which are preferably segmental in shape, having flat upper and lower faces and rounded marginal edges.

The mouth of the jar is closed by a cover comprising a glass plate or disk 4, which is of substantially the same diameter as the neck and rests upon the upper edge thereof and is provided with a pendent annular flange 5, which is located inwardly from the marginal edge of the plate and is designed to fit the interior of the neck, so as to prevent lateral displacement of the plate. Overlapping and embracing the marginal edge of the plate is a pendent metallic flange or ring 6, which is internally screw-threaded to fit the screw-threaded portion of the neck, whereby the ring is designed to tightly bind the plate upon the upper edge of the neck, and thereby form a tight closure for the mouth of the jar. Interposed between the under side of the plate and the upper edge of the neck is a rubber or similar packing ring or gasket 7 to form an air-tight joint between the cover and the jar. In practice the gasket is originally fitted to the glass plate or cap by being stretched around the flange 6, so that the gasket is carried by the cover, which facilitates the application of both the cover and the gasket. Projecting laterally from the exterior of the fastening-ring is a marginal series of studs or projections 8, which are similar to the studs of the body of the jar.

To tighten and to remove the cover, as illustrated in Fig. 3 of the drawings, there is provided a body-wrench 9 and a cover-wrench 10, each of which is formed from a flat flexible strip or band of metal having a longitudinal series of perforations 11, which are preferably elongated longitudinally of the band and spaced at regular intervals, so as to correspond with and receive the respective studs or projections of the body and the cover, respectively. One of the bands or strips is passed around the body and drawn tightly thereupon, so as to receive the studs 3 within the perforations, the opposite ends of the band being brought together, as indi-



cated at 12 in Fig. 5 of the drawings, so as to form a handle to be grasped by one of the hands of the operator. The other wrench-band is applied to the cover in a similar manner, and the handles of the bands are preferably disposed diametrically in opposite directions, so that by twisting the same in opposite directions the cover may be screwed upon or removed from the neck of the jar.

From the foregoing description it will be apparent that the change in the jar is very slight and the wrench-bands are applied only when required to fit or remove the cover, and said wrench-bands may be conveniently applied and removed without requiring any particular degree of skill or experience. By reason of the flexibility of the bands the latter readily conform to the shape of the jar and also fit jars of different sizes, as the studs and the perforations are arranged at uniform distances or intervals.

It is a well-known fact that the common or ordinary white-glass preserving-jars admit the actinic rays of light, which aid and promote fermentation of the fruit, and to prevent such fermentation I treat the glass to an actinic-light-excluding agent, preferably by mixing with the glass such coloring material as will exclude the actinic rays of light, that promote the fermentation of fruit. It will of course be understood that the glass remains partly transparent, so as to admit some of the rays of light, whereby the fruit may be readily seen through the body of the jar in order that different kinds of fruit may be quickly distinguished.

What I claim as my invention is—

1. A fruit-jar consisting of a main body and a removable cover, one or more lugs formed on each of said members and means for excluding actinic rays of light from the interior of said jar substantially as set forth.

2. A fruit-jar consisting of a main body and a removable cover, one or more lugs projecting from said body and from said cover, said lugs being adapted to engage with a removable encircling band or lever substantially as and for the purpose set forth.

3. The combination with a main body and a removable cover, a series of peripheral lugs formed integral with said body, and a corresponding series of lugs similarly formed on said cover, a flexible perforated band adapted to encircle said body or said cover, said perforations engaging with said lugs substantially as and for the purpose set forth.

4. A packing and storing vessel, consisting of a body, and a removable cover therefor, each of which is provided with one or more external studs or projections.

5. A packing and storing vessel having an externally-screw-threaded neck, a marginal series of outwardly-directed studs or projections upon the body and adjacent to the neck, and a removable cover, having an internally-screw-threaded flange or ring to fit the neck, and a marginal series of outwardly-directed studs or projections upon the flange or ring.

6. The combination with a packing and storing vessel, having an external studded portion, and a removable cover also having an external studded portion, of a pair of flexible wrench bands or strips, which tightly embrace the respective studded portions, the opposite ends of each band being brought together and forming a handle.

7. The combination with a packing and storing vessel, having a studded external portion, and a cover having a removable screw-threaded connection with the vessel, and also provided with an external studded portion, of a pair of wrench-bands formed of flexible material, and provided with a longitudinal series of perforations corresponding to the studs of the vessel and the cover, respectively, the studs being received within the respective perforations, the opposite ends of each band being brought together and forming a handle for the wrench-band, and the handles of the two bands being angularly related with respect to each other.

ANN ELIZA BRAY.

Witnesses:

R. F. ROBERTSON,  
J. M. R. SPINNING.