

G. W. DUNGAN.
 JAR CLOSURE.
 APPLICATION FILED OCT. 7, 1909.

959,848.

Patented May 31, 1910.

Fig. 1.

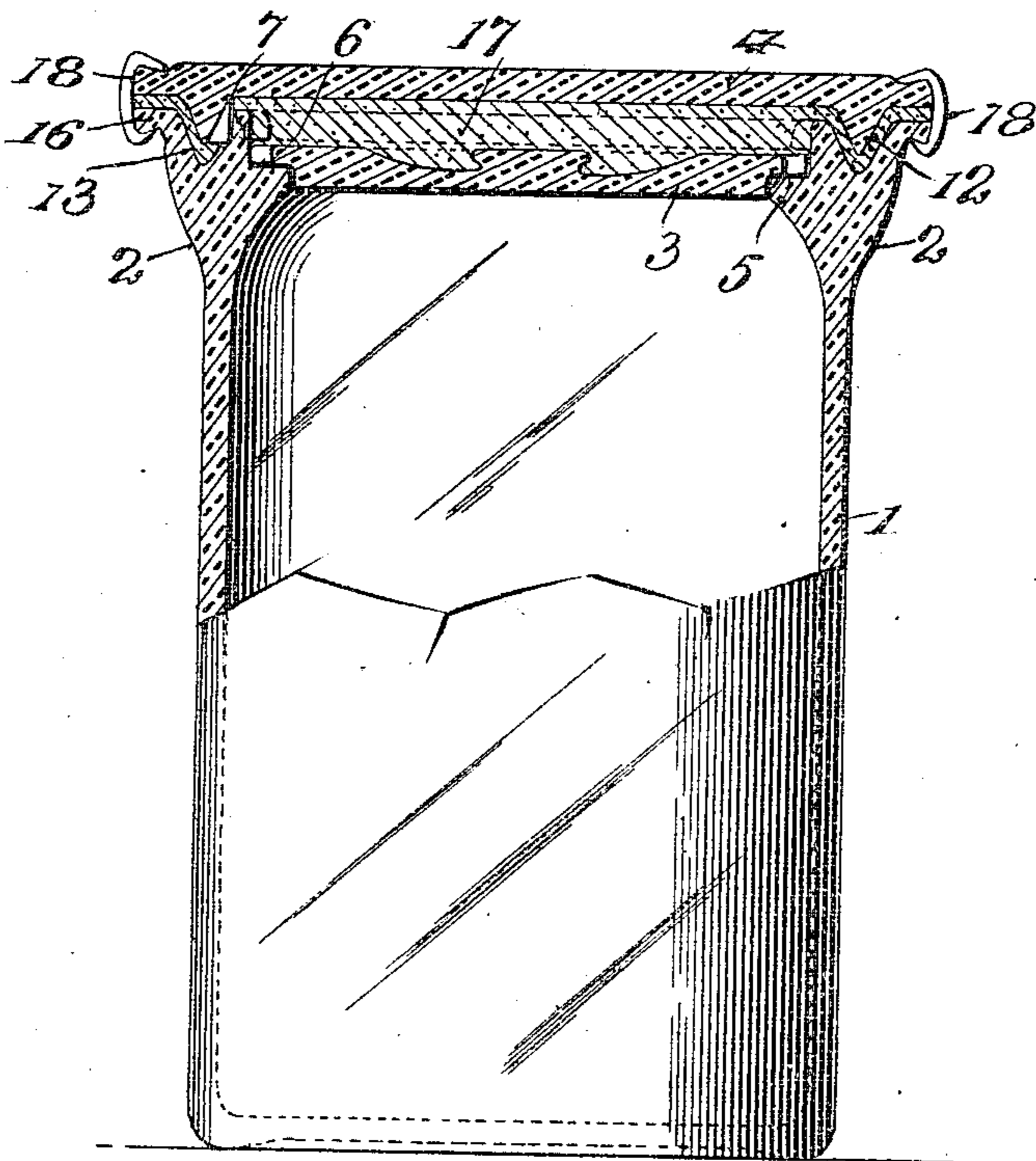
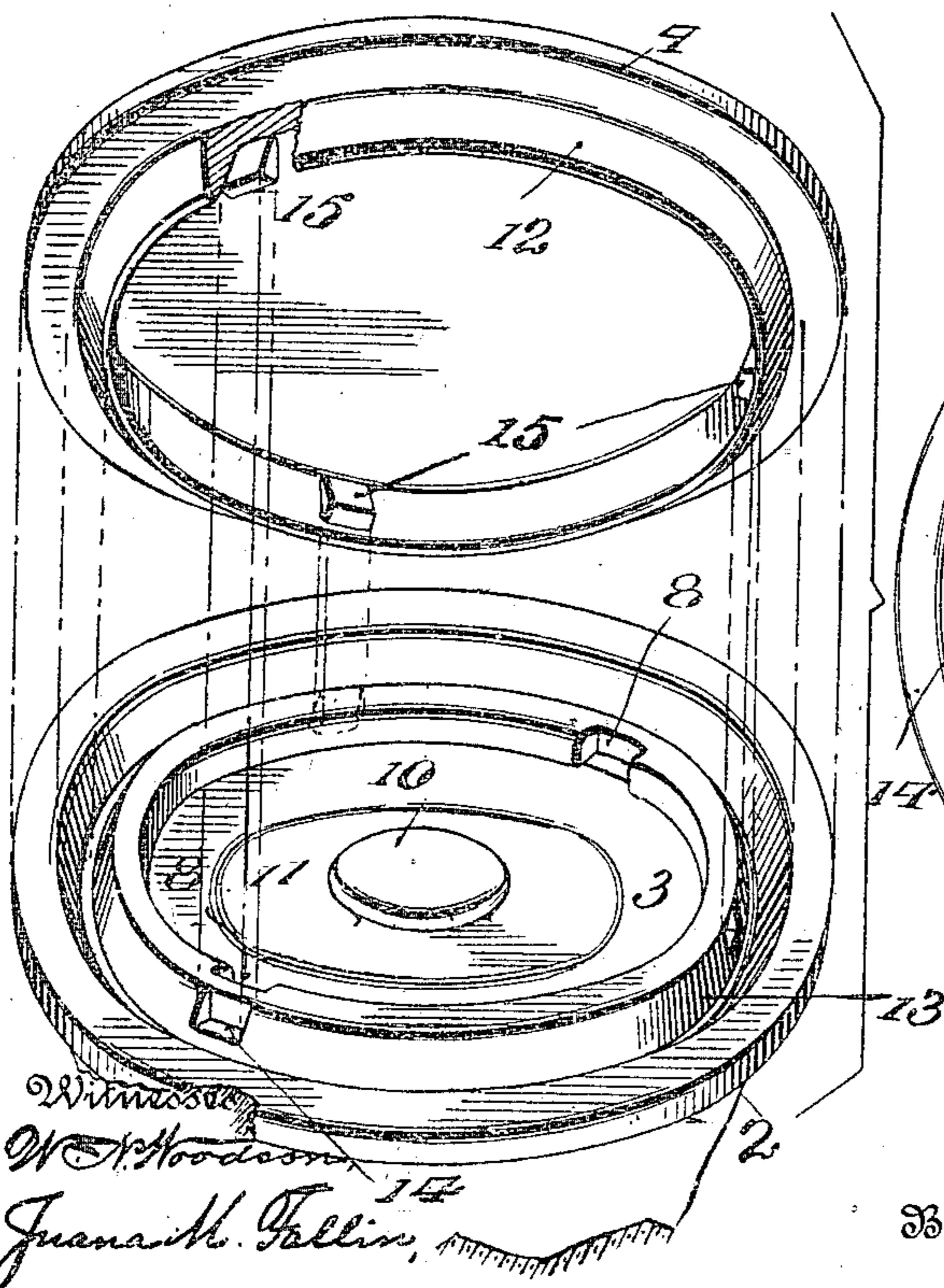
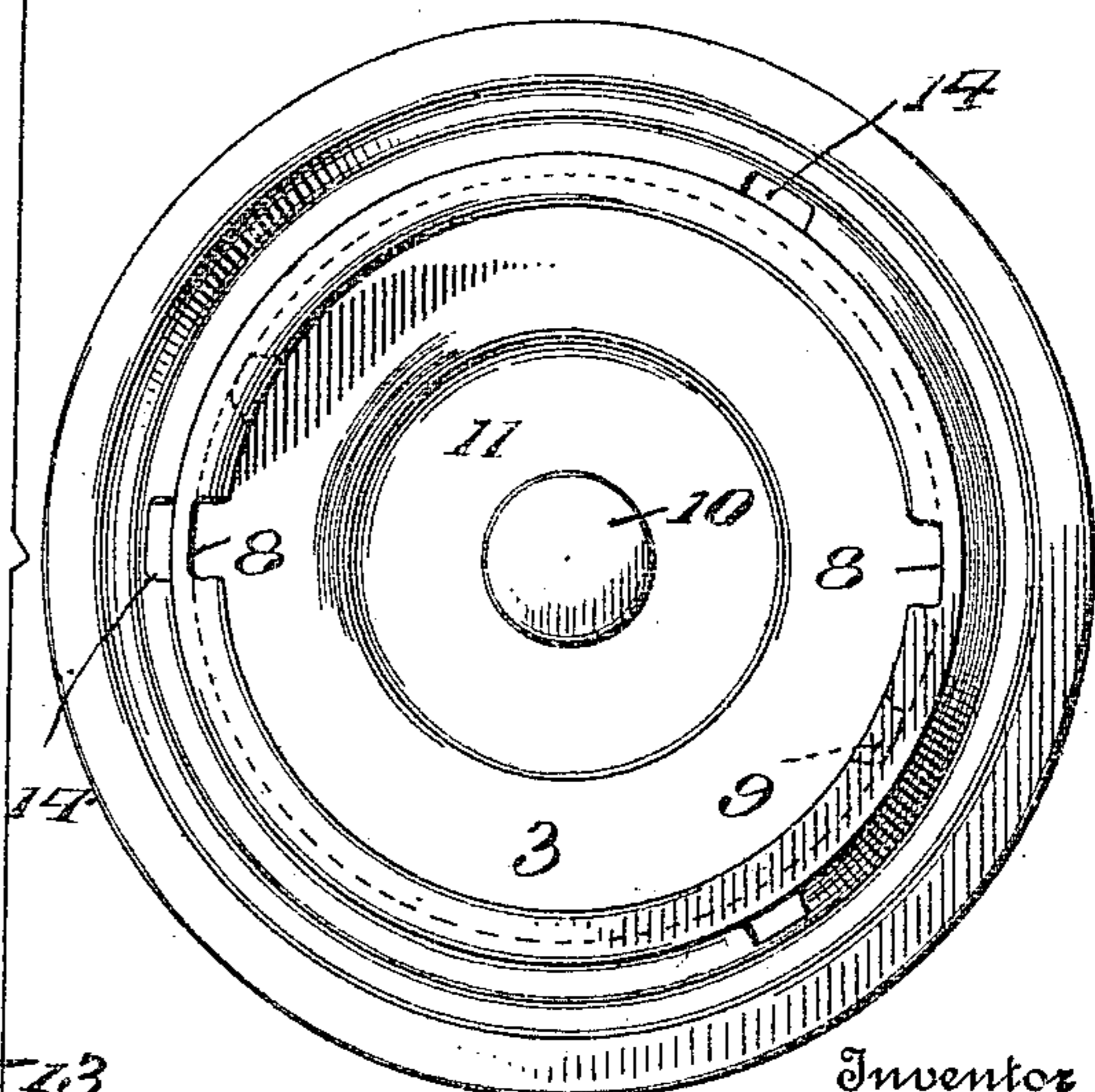


Fig. 3.



Witness
 W. H. Hoodson
 Juana H. Gallin

Fig. 2.



Inventor

G. W. Dungan

By

J. H. Macy, Attorneys.

UNITED STATES PATENT OFFICE.

GEORGE W. DUNGAN, OF STRASBURG, PENNSYLVANIA.

JAR-CLOSURE.

959,848.

Specification of Letters Patent.

Patented May 31, 1910.

Application filed October 7, 1909. Serial No. 521,452.

To all whom it may concern:

Be it known that I, GEORGE W. DUNGAN, a citizen of the United States, residing at Strasburg, in the county of Lancaster and State of Pennsylvania, have invented certain new and useful Improvements in Jar-Closures, of which the following is a specification.

This invention comprehends certain new and useful improvements in storing vessels and closures therefor, and the primary object of the invention is a simple, durable and efficient construction of closure for jars, crocks, bottles, or similar receptacles, whereby the contents may be hermetically sealed and maintained in hermetically sealed condition so as to preserve the same and prevent deterioration. And a further object of the invention is a device of this character which may be cheaply and easily manufactured and sold at a relatively low cost, the invention also having for its object to generally improve the construction of articles of this type.

With this and other objects in view as will more fully appear as the description proceeds, the invention consists in certain constructions, arrangements and combinations of the parts that I shall hereinafter fully describe and claim.

For a full understanding of the invention, reference is to be had to the following description and accompanying drawings in which:

Figure 1 is a sectional side elevation of a jar embodying the improvements of my invention; the same being shown in sealed condition: Fig. 2 is a top plan view of the device with the outer cover or lid omitted: and, Fig. 3 is a perspective view of the parts with the outer lid drawn out in inverted perspective in juxtaposition to the other parts.

Corresponding and like parts are referred to in the following description and indicated in all the views of the accompanying drawing by the same reference characters.

Referring to the drawing, the numeral 1 designates the body portion of the jar, crock, bottle, or analogous receptacle, the side walls of the said receptacle being preferably thickened at the mouth rim thereof as indicated at 2 whereby to avoid any weakening of the wall due to the formation of the grooves and channels therein that are adapted to receive the closure.

The closure of my present invention com-

prises an inner lid 3 and an outer lid 4. The inner lid 3 is formed with a rim flange 5 adapted to rest upon an annular ledge 6 which is formed on the interior wall of the body portion 1 near the rim or mouth thereof. Above the ledge 6 the entire wall of the body portion is formed with an undercut annular groove 7, the walls whereof are intersected at any desired number of points with upwardly opening recesses 8 the same being two in number in the present instance arranged diametrically opposite each other, and the lid 3 is formed with outstanding corresponding lugs 9 adapted to pass into the grooves 7 through these recesses 8 so that the lid may be easily slipped into place, and may then be given a slight turn in one direction or the other so as to lock it securely as against accidental displacement on the ledge 6. To facilitate the application and removal of the inner lid 3 it is provided with a centrally disposed finger knob 10 formed with a circular depression 11 as clearly illustrated in the drawing.

The outer lid 4 is formed with a depending rib 12 which is preferably of a tapering or wedge like formation as best seen in Fig. 1, said rib being substantially U-shaped in the present embodiment of the invention, and being preferably set in slightly from the margin of the lid. To accommodate this rib, the mouth rim of the body portion 1 is formed with an upwardly facing correspondingly shaped channel 13 one wall of which (the inner wall in the present instance) is formed with any desired number of recesses 14 arranged at any desired intervals apart and designed to accommodate lugs 15 that are formed on the inner wall of the rib 12. These lugs 15 it is to be particularly noted form supports for the lid 4, arranged to properly center the same on the mouth rim of the body portion of the receptacle and to hold the lid in such position that the rib 12 will be slightly spaced on all sides from the downwardly converging opposite walls of the annular channel 13, and to also hold the rim of the lid 4 which extends around the rib 12, in slightly spaced relation to the outwardly projecting flange 16 which is formed on the mouth of the body portion 1. This relation of parts is best illustrated in Fig. 1.

In the practical use of a jar, crock or other receptacle equipped with the closure of my invention, after the jar, for instance,

has been filled with its contents and it is desired to seal the same, the lid 3 is first applied, the lugs 9 being slipped down through the recesses 8 and the lid being given a slight turn to the right or to the left so as to securely lock it on the ledge 6. Melted paraffin or some similar sealing material as indicated at 17 is then poured on the top of the inner lid 3 and fills the channel 13 to the desired extent and the outer lid 4 is then applied, the supporting lugs 15 being received in the recesses 14. Obviously as the lid 4 is pressed down into place, the melted paraffin or the like will be forced to completely fill the spaces surrounding the rib on all sides as well as the spaces between the marginal rim of the outer lid 4 and the flange 16, the parts being thereby effectually sealed. The outer lid 4 may then be secured in place by any desired means such as the catches 18 shown in Fig. 1. It is to be noted that the lid 4 itself is not projected beyond the flange 16, but is flush therewith. Hence as the jar is grasped by the top to lift the same, one's fingers will grasp the flange and not the outer lid 4, consequently all liability of breaking the seal or joint is thereby precluded.

From the foregoing description in connection with the accompanying drawings, it will be seen that I have provided a very simple construction of jar and closure therefor which will be very effective in hermetically sealing the contents of a jar, and which may be easily applied and removed therefrom whenever desired.

Having thus described the invention, what is claimed as new is:

1. As a new article of manufacture, a receptacle formed on its inner wall with a lid supporting ledge, an inner lid supported on said ledge, the receptacle being formed in its mouth rim with a channel, an outer lid formed with a rib mounted in said channel and with supporting lugs adapted to hold the lid in spaced relation to the walls of the channel, and a sealing medium in the spaces between the inner and outer lids and the spaces between the walls of the channel and the rib.

2. As a new article of manufacture, a receptacle formed with an interior ledge adapted to support a lid, an inner lid ar-

ranged to rest on said ledge, the receptacle being also formed in its mouth rim with a channel, and with recesses in one wall of said channel, an outer lid formed with a rib arranged to be positioned in said channel and with depending lugs adapted to be positioned in said recesses and arranged to support the outer lid and its rib in spaced relation to the walls of the channel, and a sealing medium filling the spaces between the rib and the channel walls.

3. As a new article of manufacture, a receptacle formed in its mouth rim with a channel tapering in cross section with downwardly converging inner and outer walls, a lid formed with a correspondingly shaped rib arranged to be positioned in said channel and with lugs formed on the inner wall of said rib, the inner wall of the channel being formed with recesses adapted to accommodate the lugs whereby to hold the rib in spaced relation to the walls of the channel, and a sealing medium filling the spaces between the channel walls and the rib.

4. As a new article of manufacture, a jar provided with an interior annular ledge and an undercut annular groove above said ledge with recesses opening upwardly from said groove, an inner lid adapted to rest on said ledge and formed with lugs arranged to pass through said recesses into the groove, said receptacle being also formed in its mouth rim with an annular channel and with recesses in one wall of said channel, an outer lid formed with a depending rib set in from the margin thereof and arranged to be positioned in said channel, the rib being formed in one wall with lugs adapted to rest in said last named recesses and arranged to hold the inner lid in a slightly elevated position, and a sealing medium filling the spaces between the inner and outer lids and the spaces between the rib and the walls of the channels, the body portion being provided at its rim edge with an upwardly projecting flange flush with the margin of the outer lid.

In testimony whereof I affix my signature in presence of two witnesses.

GEORGE W. DUNGAN. [L. S.]

Witnesses:

W. N. WOODSON,
FREDERICK S. STITT.