No. 751,083. PATENTED FEB. 2, 1904.

M. A. LAZAREFF.

BOTTLE.

APPLICATION FILED MAY 20, 1903.

NO MODEL.

Fig. 1

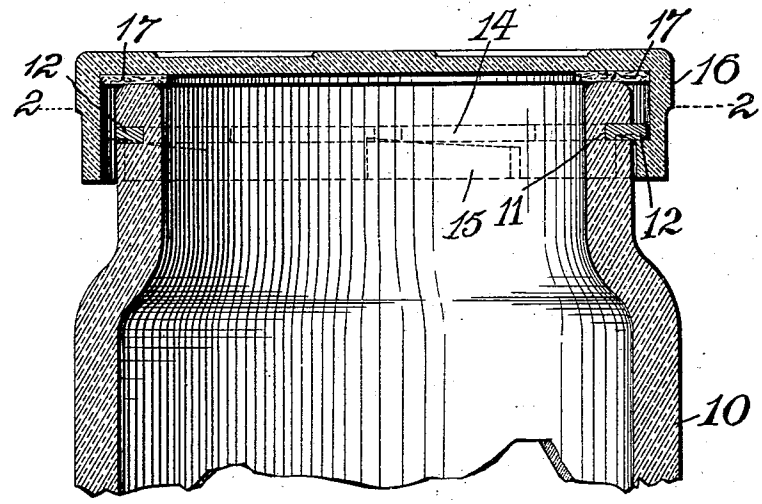
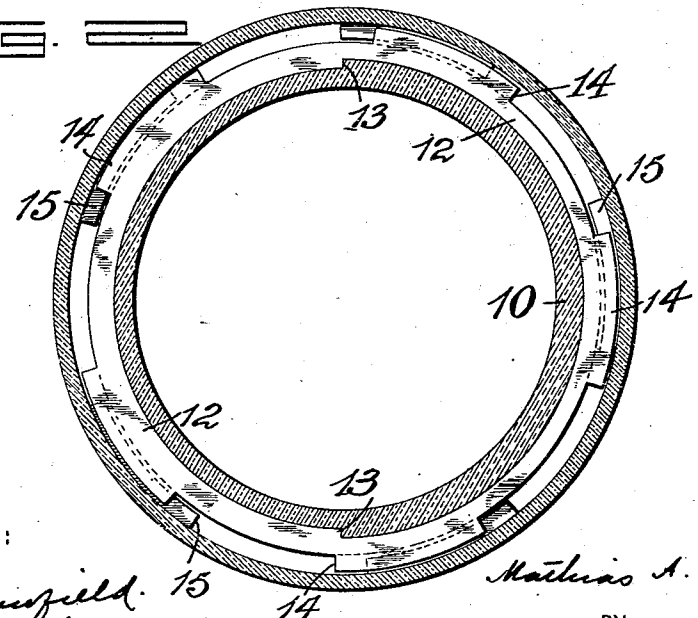


Fig. 2



WITNESSES:

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No. 751,083. Patented February 2, 1904.

UNITED STATES PATENT OFFICE.

MATHIAS A. LAZAREFF, OF NEW YORK, N. Y., ASSIGNOR TO THE ROYAL GLASS JAR AND BOTTLE COMPANY, OF NEW YORK, N. Y., A CORPORATION OF THE DISTRICT OF COLUMBIA.

BOTTLE.

SPECIFICATION forming part of Letters Patent No. 751,083, dated February 2, 1904.

Application filed May 20, 1903. Serial No. 157,891. (No model.)

To all whom it may concern:

Be it known that I, MATHIAS A. LAZAREFF, of New York, Kings county, New York, have invented certain new and useful Improvements in Bottles, of which the following is a full, clear, and exact description.

My invention relates to improvements in bottles, jars, and similar things, and is especially intended as an improvement on the structure shown in my application for Letters Patent of the United States, Serial No. 135,970, filed December 20, 1902.

My present invention is in principle like that shown in my former application; but I have in the course of manufacturing the bottles discovered certain improvements which seem important and which render the bottle-closure more perfect.

The object of my present invention is, moreover, to provide a simple and inexpensive means of fastening to the bottle-neck the band or shoulder-clips which form a part of the bottle-closure.

To this end my invention consists of certain features of construction and combinations of parts, which will be hereinafter described and claimed.

Reference is to be had to the accompanying drawings, forming part of this specification, in which similar figures of reference refer to similar parts throughout the several views.

Figure 1 is a broken vertical section of a common form of jar, showing my improvements; and Fig. 2 is a sectional plan on the line 2 2 of Fig. 1.

The vessel 10, as illustrated, represents a common fruit-jar; but it may be any usual or preferred form of bottle, jar, or analogous vessel. Produced circumferentially in its neck is a groove 11, which is adapted to hold the fastening band or plate 12, and in order to assist in preventing the band from becoming loose the band and bottle-neck are provided with meeting and engaging shoulders, as shown at 13; but to make the fastening of the band absolutely positive I insert it in the groove 11 while the bottle is still soft and in the mold and then press the top portion of the bottle-neck downward, so as to squeeze the soft glass firmly against the band or plate 12, and thus the latter is held rigid. The plate or band 12 is shaped so as to have projecting lugs 14, a plurality of these being arranged around the bottle-neck, and these engage lugs 15, like those shown in my former application, which are produced on the inner side and near the lower edge of the cap 16, which as usual fits on over the bottle-top. It is customary to insert a washer 17 between the upper edge of the bottle and the cap. It will be seen that by placing the lugs 15 at points between the lugs 14 the bottle-cap may be dropped to place and then by twisting the cap slightly the lugs 15, which are slightly inclined, (see Fig. 1,) engage the lugs 14, and the cap is locked firmly in place, and at the same time the action is very easily performed.

From the foregoing description it will be seen that the novelty in this present case rests wholly in the formation of the plate or band 12 and the manner in which the band is held in the bottle-neck. I have made many experiments and have found that the band is important, as it does not answer to have glass lugs, because the meeting glass surfaces crumble so easily; but by having the band 12 held as shown it is absolutely prevented from turning and at the same time makes a positive soft connection with the glass lugs 15. In practice I have found that a band of aluminium alloy works nicely, because it is not too hard and flinty, and, moreover, it is not likely to corrode easily. However, any suitable material can be used for the band 12.

I have found in my experiments that to make an effective closure the band must be held absolutely against displacement, and it will be seen that I have provided for this.

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

1. The combination with a bottle, of a band or plate rigidly fastened in a circumferential groove of the neck, and provided with outwardly-extending lugs.

2. The combination with a bottle-neck hav-

ing a circumferential groove therein, of a band or plate having outwardly-extending lugs, said band or plate being held in the groove and the material of the bottle being squeezed upon the said band or plate to hold it against displacement.

3. The combination of a bottle-neck having a circumferential groove therein, of a band or plate fitting the groove and having outwardly-projecting lugs, the said band or plate and the wall of the groove having engaging shoulders, and the material of the neck being squeezed snugly upon the said band or plate to prevent its displacement.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

MATHIAS A. LAZAREFF.

Witnesses:
WM. H. CANFIELD,
W. B. HUTCHINSON.