

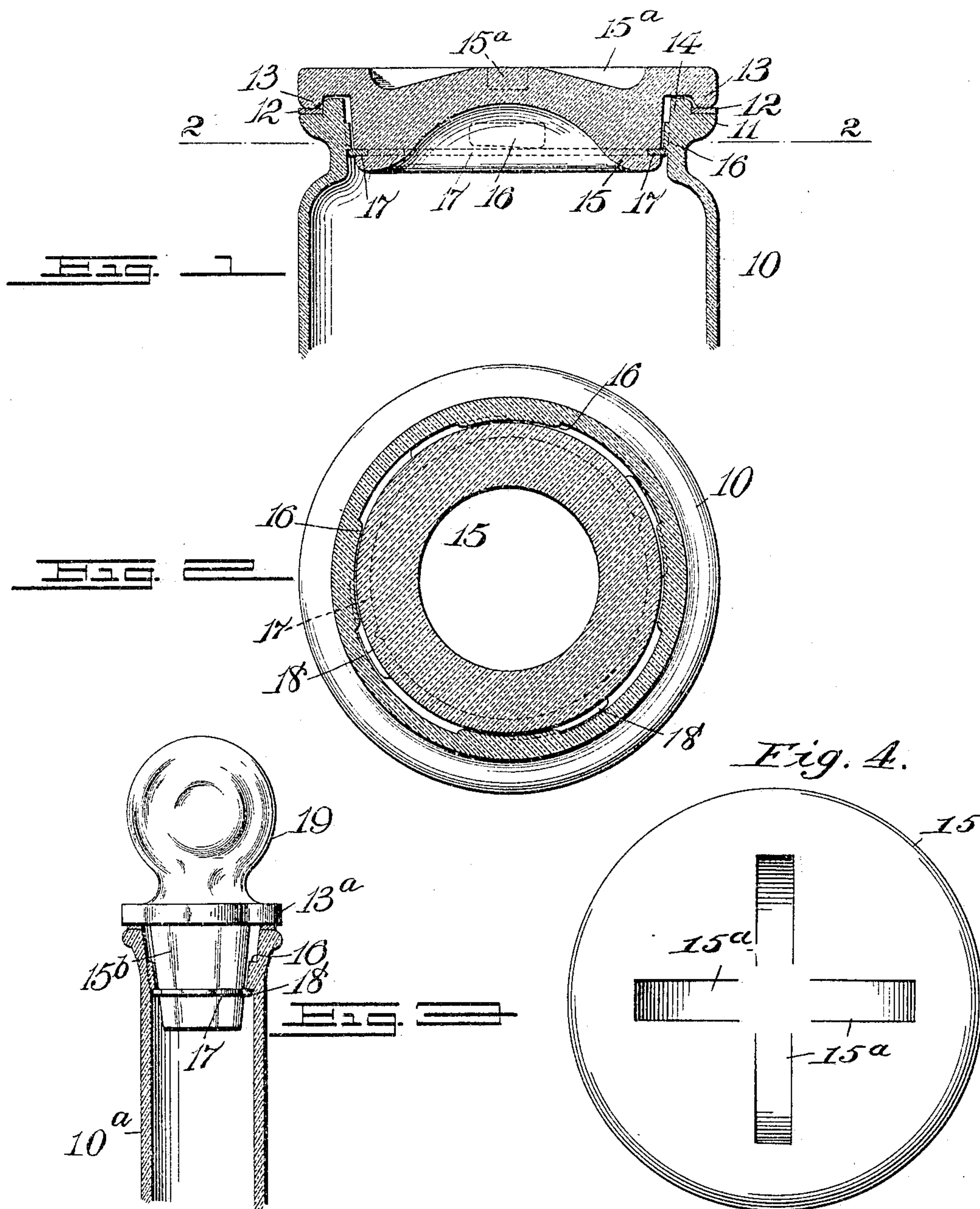
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M. A. LAZAREFF.

FASTENING MEANS FOR BOTTLES OR SIMILAR THINGS.

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WITNESSES:
John T. Carolan.
Wm. H. Campfield.

INVENTOR.
Matthias A. Lazareff.
BY
D. B. Hutchinson.
ATTORNEY.

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.

FASTENING MEANS FOR BOTTLES OR SIMILAR THINGS.

SPECIFICATION forming part of Letters Patent No. 788,158, dated April 25, 1905.

Application filed May 6, 1904. Serial No. 206,627.

To all whom it may concern:

Be it known that I, MATHIAS A. LAZAREFF, of the city, county, and State of New York, have invented a new and Improved Fastening Means for Bottles or Similar Things, of which the following is a full, clear, and exact description.

My invention relates to improvements in that class of fastening devices which is intended to be quickly fastened and unfastened, which is adapted to connect parts where quick disconnection is desirable, and is also adapted to effect the closure of vessels of various kinds.

My invention is particularly intended as an improvement on the device shown in Letters Patent of the United States No. 737,638, dated September 1, 1903, and No. 751,083, dated February 2, 1904.

In my former inventions just referred to, the fastening means was exterior of the neck of the bottle or similar vessel and on some accounts is therefore objectionable.

The object of my present invention is to utilize the principles disclosed in my former inventions, but to improve in detail to the end that the locking means may be on the inside of the article—as, for instance, a bottle-neck to which a connection is to be made—so that the exterior of the vessel may be left entirely plain and smooth.

Obviously the fastening means can be applied to any device where a removable part is to be attached to the hollow body portion—as, for instance, a jar-cap or a bottle-stopper. With the above ends in view 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 a part of this specification, in which similar figures of reference indicate corresponding parts in all the views.

Figure 1 is a vertical section of the upper portion of a fruit-jar, showing my improvements attached. Fig. 2 is a sectional plan on the line 2 2 of Fig. 1, and Fig. 3 is a sectional elevation showing my invention in the form of a bottle-stopper and bottle-neck. Fig. 4 is

a plan view of Fig. 1 to more clearly illustrate the finger-grips in the cap.

Referring to Figs. 1 and 2, the jar 10 may be of any usual form and is made in the main like an ordinary fruit-jar, and it has, preferably, a circumferential shoulder 11 near the top, on which the usual form of gasket 12 is placed, so as to be engaged by the dependent rim 13 of the bottle-cap 15, a space being left between the middle or top portion of the cap and the flange or rim 13, so that the top edge 14 of the bottle may extend upward into the cap, as the drawings clearly show.

The details just described I do not claim, and they are not necessary, but are desirable, because the interior lock presently to be described works nicely in connection with the structure described and forces the rim 13 snugly against the gasket 12, so as to make an air-tight joint.

The interior of the neck of the jar 10 or other vessel is provided with lugs 16, which extend slightly into the bottle-neck and are spaced apart, as the drawings show, these being preferably inclined slightly on the under side like the lugs shown in my former applications above referred to.

Held snugly in the body of the cap 15 is a circumferential plate or ring 17, which is preferably of metal, and I have found that aluminium works better than anything else for this purpose, as the glass holds it snugly and it does not corrode easily. To provide against the displacement of the ring, however, it is inserted in a groove of the cap while the latter is still plastic, and the soft glass is then pressed snugly against the ring while in a mold, and the ring is thus held secure. The ring or plate 17 has at intervals projecting lugs 18, and when these do not register with the lug 16 the bottle-cap may be easily inserted in or removed from the neck of the bottle or jar 10. By placing the cap in position and then turning it slightly, however, the lugs 18 engage the lugs 16 and the cap is drawn snugly to its seat. To provide for the easy turning of the cap, I preferably arrange finger-grips 15^a in the top. No novelty is

claimed for these finger-grips and other things can be substituted for them.

It will be seen that the arrangement described is very simple, that the cap can be easily locked, and that the inside lugs 16 protrude so little that they do not interfere with the filling or emptying of the jar.

In Fig. 3 I have shown how my invention is applied to a bottle of different shape. Here the long neck 10^a has lugs 16, exactly as already described, and the stopple 19 has a flange 13^a adapted to fit on the top of the bottle-neck flatwise, while the ring 17, with its lugs 18, is held in the stopple portion 15^b, as the drawings show. This device is operated exactly like the cap already described to fasten or unfasten the stopple.

The modification will illustrate clearly the fact that my invention is not limited to any particular form of device, but is adapted for use in connection with any hollow vessel to which a cap, stopple, closure, or other part is to be detachably secured. It will also be observed that the lugs 16 may be produced on the inner member and the lugs 18 on the outer

member, if desired, with the same effect, the change being a mere reversal of the parts.

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

1. The combination with a hollow vessel having internal lugs near its mouth, of a closure or cap adapted to fit against the mouth of the said vessel, the closure having an inwardly-extending body portion in which is securely held a circumferential ring having projecting lugs to engage the lugs of the hollow vessel.

2. The combination with a jar or bottle having inwardly-projecting lugs in its neck, of a cap or closure fitting into the bottle-neck and having a flange to close against the top of the bottle-neck, the said cap having a circumferential ring held fast therein and provided with projecting lugs to engage the lugs of the bottle-neck.

MATHIAS A. LAZAREFF.

Witnesses:

WARREN B. HUTCHINSON,
J. G. DUNBAR.