

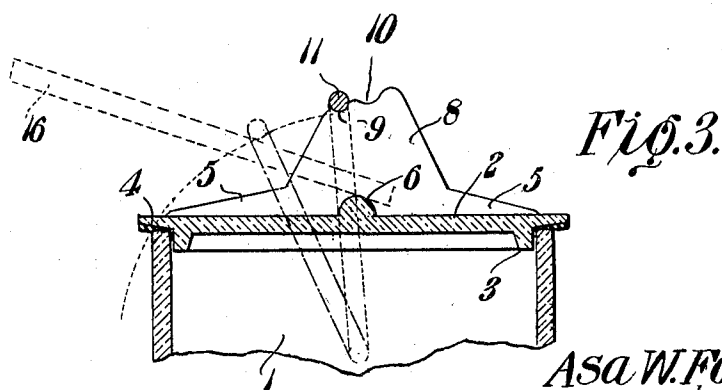
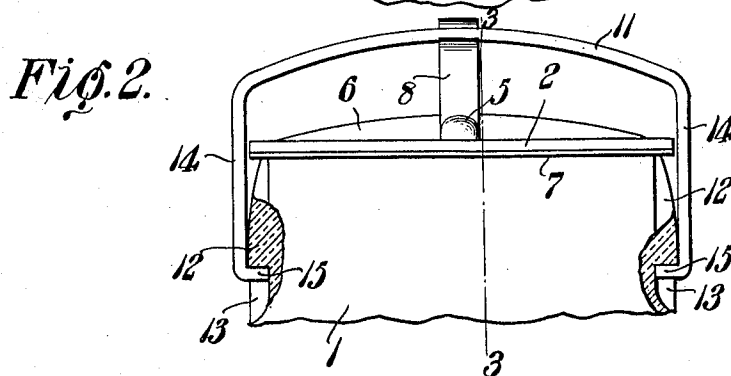
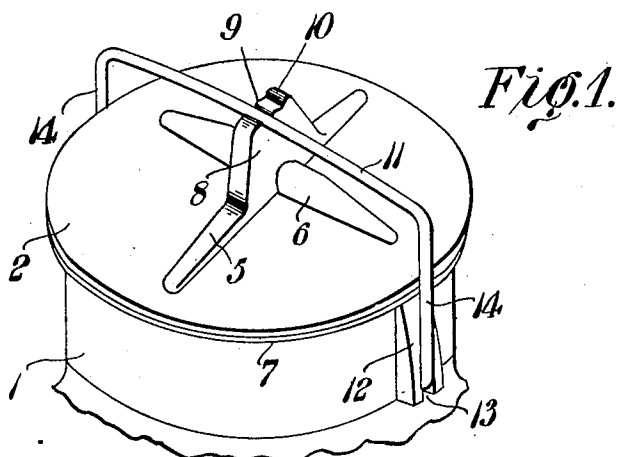
No. 891,921.

PATENTED JUNE 30, 1908.

A. W. FOSTER.

JAR CLOSURE.

APPLICATION FILED MAY 17, 1907.



WITNESSES:

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UNITED STATES PATENT OFFICE.

ASA W. FOSTER, OF GOREVILLE, ILLINOIS.

JAR-CLOSURE.

No. 891,921.

Specification of Letters Patent.

Patented June 30, 1908.

Application filed May 17, 1907. Serial No. 374,180.

To all whom it may concern:

Be it known that I, ASA W. FOSTER, a citizen of the United States, residing at Goreville, in the county of Johnson and State of Illinois, have invented a new and useful Jar-Closure, of which the following is a specification.

This invention relates to a novel device for hermetically sealing jars and analogous vessels, the object being to provide for a jar, a glass or other cover made relatively thin, provided with strengthening ribs on its outer surface and an upright projection having a plurality of notches on its upper edge with which a swinging bail, pivoted to the jar, may engage for holding the cover in position on the mouth of the jar.

In the accompanying drawings: Figure 1 is a perspective view of the closure applied to a jar, the neck only of the latter being shown. Fig. 2 is a view in elevation of the same, a portion of the jar being broken away. Fig. 3 is a vertical section on the line 3—3 of Fig. 2.

Similar numerals of reference are used to indicate the same parts in all the figures.

A jar 1, the neck only of which is shown, has its mouth closed by a circular cover 2, preferably made of glass or porcelain, on the under surface of which is an annular flange 3 fitting easily into the mouth of the jar. The cover 2 projects, preferably, beyond the mouth of the jar, its under surface 4 outside the flange 3 being made with a slight upward bevel towards the edge of said cover. Within the flange 3 the cover is relatively thin, but is strengthened or reinforced by integrally formed ribs 5 and 6 on its upper face. Between the mouth of the jar and the beveled surface of the cover 2, and surrounding the flange 3, is a rubber packing ring 7. The ribs 5 and 6 are, from choice, placed at right angles to each other and extend almost entirely across the cover, tapering from the center toward the ends.

At the center of the cover, one of the ribs, as 5, is enlarged vertically to form an upward projection 8, the width of the rib, on the top of which two notches 9 and 10 are formed at different elevations, in one or the other of which a fastening bail 11 is adapted to be seated.

On the neck of the jar, oppositely disposed, are two integrally formed lugs 12, in the lower end of which are openings 13 to receive the ends of the bail 11. This bail is made of a length of wire, slightly curved at

its middle portion for a distance equal to the diameter of the cover and then bent shortly at each side to form two parallel arms 14 of equal length, which terminate in fingers 15 seated in the openings 13.

In designing the herein described jar closure, attention has been paid to its economical manufacture, simplicity of construction and security of sealing. The cover is made thin, but is reinforced by ribs on its upper surface which give it sufficient strength for all necessary purposes. The bail arms 14 are shorter than usual and less wire is needed to form the bail. The shortening of the arms 14 raises their axis of rotation and lowers the curved portion of the bail to such an extent that the bail when turned down barely passes the mouth of the jar, as indicated by the dotted line in Fig. 3, and will not turn wholly down until the cover has been removed. As thus constructed a more symmetrical and attractive jar is produced and one more economical.

After a jar has been filled, the bail is raised sufficiently high to enable the cover being placed over the mouth of the jar. A lever 16 of any sort is then placed beneath the bail, one end resting on the rib 6 and the other held in the hand. When the lever is raised the bail is forced to seat itself in the lower notch 9. In new jars this notch will hold the bail with sufficient tension to close the jar air tight, but in time, owing to the constant strain on the bail and other causes, it stretches slightly and will no longer hold the cover when placed in the lower notch. Under such circumstances the bail will be forced into the higher notch 10. If found necessary more than two notches will be made in the projection 8, each on a different level.

By beveling the under surface of the peripheral portion of the cover said cover when pressed downward upon the gasket acts to a certain extent as a wedge for the purpose of spreading the gasket laterally and thus removing any creases or wrinkles which might be formed therein and insuring a tight fit between all portions of the faces of the gasket and the adjoining faces of the jar neck and cover.

Having thus described the invention what is claimed is:—

The combination with a jar having oppositely disposed wedge shaped lugs, the thin ends thereof being adjacent the mouth of the

jar and the thick ends thereof being provided with sockets; of a closure having an annular flange upon one face thereof insertible into the neck of the jar, that portion of
5 the lower face of the closure outside the flange being beveled to form a frusto-conical surface adapted to hold a gasket in flat relation thereto, said closure having intersecting reinforcing ribs integral with the
10 outer face thereof and disposed perpendicularly to each other, one of said ribs extending above the other rib and having its uppermost portion formed with notches in stepped relation, an elastic gasket interposed between

the jar and the beveled portion of the closure 15 carried on said closure, and a resilient bail detachably and pivotally engaging the sockets, the intermediate portion of said bail being movable into engagement with the notches to bind the cover upon the gasket 20 to spread the same radially.

In testimony that I claim the foregoing as my own, I have hereto affixed my signature in the presence of two witnesses.

ASA W. FOSTER.

Witnesses:

OSCAR S. COLE,
SAMUEL J. CALHOUN.