Feb. 8, 1927. 1,616,518

T. L. TALIAFERRO

JAR CLOSURE

Filed June 8. 1921

Fig. 1.

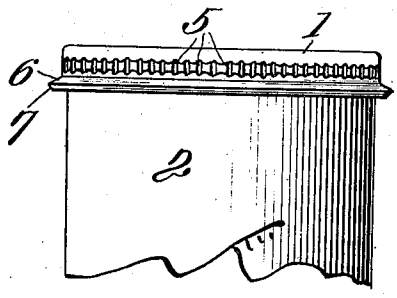


Fig. 2.



Fig. 3.

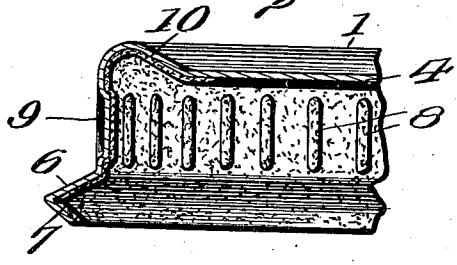
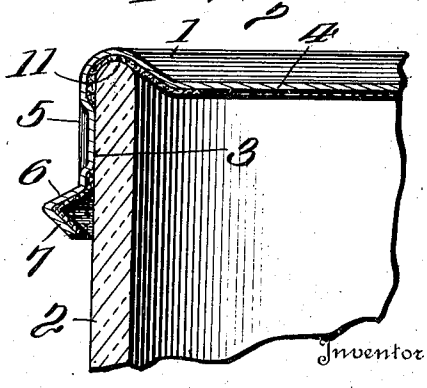


Fig. 4.



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UNITED STATES PATENT OFFICE.

THOMAS L. TALIAFERRO, OF CHICAGO, ILLINOIS.

JAR CLOSURE.

Application filed June 8, 1921. Serial No. 475,921.

The invention relates to new and useful improvements in jar closures, and more particularly to a metal closure adapted to be used in connection with a glass or porcelain jar having a substantially straight or vertical outer wall with which the closure makes gripping contact.

An object of the invention is to provide a jar closure having a depending flange adapted to extend down along side of the outer wall of the jar with spaced, elongated, vertically disposed projections which are adapted to grip the side wall of the jar and hold the closure thereon.

A further object of the invention is to provide a jar closure of the above type wherein the inner face of the flange and the projections are coated with a sealing material which is adapted to be scraped from the projections when the closure is forced onto the jar and packed between the flange and the wall of the jar to aid in sealing the same.

These and other objects will in part be obvious and will in part be hereinafter more fully disclosed.

In the drawings, which show by way of illustration one embodiment of the invention—

Figure 1 is a side view of the upper portion of a jar showing my improved closure applied thereto;

Fig. 2 is a enlarged sectional view of the closure and showing in dotted lines the upper portion of a jar;

Fig. 3 is a still further enlarged vertical section of a portion of the closure before being applied to the jar;

Fig. 4 is a view similar to Fig. 3, but showing the closure applied to the jar and the sealing material scraped from the projections and packed between the flange and the side wall of the jar.

My improved closure is preferably made of sheet metal and consists broadly of a top portion having an integral depending flange, said flange at the lower portion thereof being preferably bent outwardly and thence inwardly to form a strengthening bead for the lower portion of the flange. This also forms an open mouth to aid in the placing of the closure on the jar. Said depending flange above the strengthening bead is substantially vertical. This vertical portion of the flange is provided with a series of elongated closely spaced vertical projections which are adapted to engage the outer side wall of the jar for gripping the same to hold the closure on the jar.

Referring more in detail to the drawings, I have shown the closure 1 as applied to a jar 2 which is preferably of glass, porcelain or the like and is so formed that the outer wall 3 thereof adjacent the upper portion of the jar is substantially vertical. Said closure 1 includes a top portion 4 and a depending flange 5. Said depending flange 5 is bent outwardly at 6, and thence inwardly at 7 to form a strengthening bead for the lower portion of the flange. The inwardly bent portion 7 terminates so that the extreme lower edge thereof lies in a circle of larger diameter than the inner diameter of the flange 5, and this forms a relatively large entrance opening for the jar when the closure is placed on the jar.

The portion of the flange above the strengthening bead is substantially vertical, and said vertical portion of the flange is formed with a series of vertically disposed ribs spaced from each other a slight distance and projecting inwardly from the flange. The inner face of the flange, including the projections, is coated with sealing material 9. The top portion 4 of the closure is bent so as to form an annular groove 10 which is adapted to engage over the upper edge of the jar 11. The sealing material 9 also lines the inner face of the groove 10. The inner diameter of the flange 5 is slightly greater than the outer diameter of the jar. The distance from the inner face of one projection 8 to a diametrically opposed projection 8 is slightly less than the outer diameter of the jar.

When the closure is forced onto the jar, the sealing material which covers the projections will be scraped off from the projections by the outer extreme edge of the jar and will be carried upwardly and crowded in between the outer wall of the jar and the inner wall of the flange 5 above said projections. This packing of the sealing material in between the flange of the side wall of the jar aids materially in effecting the perfect seal of the jar. Furthermore, the sealing material is stripped from the inner face of the projections so that the metal will contact with the outer surface of the jar and firmly grip the same. The projections 8 are closely spaced. Each projection is capable

of reshaping itself independent of the others. If the jar is out-of-round, certain of the projections at the maximum diameter of the jar will be more or less flattened or reshaped while the projections at the minimum diameter of the jar will be less flattened or reshaped and will grip the outer wall of the jar. Thus it is that the projections will grip the jar all the way around even though it is out-of-round and without causing any material distortion of the circular depending flange 5.

By making the projections elongated in a vertical direction, I am able to secure an extended gripping surface and, at the same time, preserve all the advantages of the relatively short projections in a circumferential direction about the jar. It will readily be seen that by making the projections short in a circumferential direction and closely spacing the same, I am able to get a much better gripping surface where the jar is out-of-round, rough or misshaped in any way.

It is obvious that minor changes in the details of construction may be made without departing from the spirit of the invention as set forth in the appended claim.

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

A jar closure comprising a top portion and a depending straight vertical flange having its inner diameter larger than the outer diameter of the jar mouth to be closed thereby, said flange having inwardly extending spaced vertical ribs or projections, the inner faces of which are substantially parallel with the outer wall of the jar, said ribs being adapted to make contact throughout a greater portion of their length with the jar, the distance from the inner face of one rib to the inner face of a rib diametrically opposed thereto being less than the outer diameter of the jar mouth whereby said ribs are re-shaped when forced on to said jar, thus conforming to any out-of-roundness in the glass, and each rib caused to grip the outer wall of the jar.

In testimony whereof, I affix my signature.

THOMAS L. TALIAFERRO.