June 1, 1937. L. R. N. CARVALHO 2,082,617

CLOSURE

Filed Aug. 27, 1936

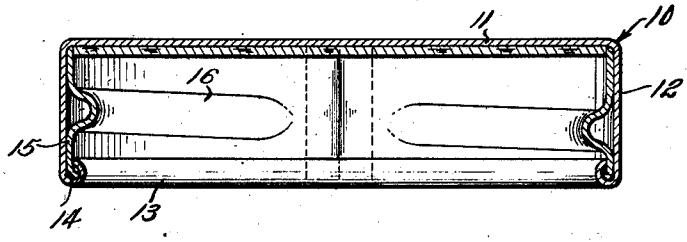


Fig-1-

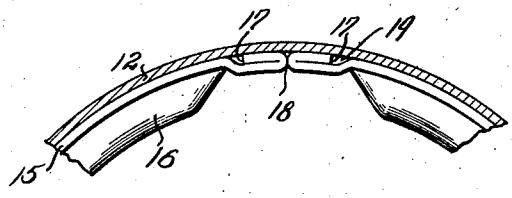


Fig-2-

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CLOSURE

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Application August 27, 1936, Serial No. 98,161

3 Claims. (Cl. 215—43)

The present invention relates to sheet metal closures of the screw threaded type designed for use in the sealing of bottles, jars, and similar forms of containers.

The principal object of the invention is to provide a closure of the type shown in my copending application, Serial No. 11,939, filed March 20, 1935, in which an improved means is provided for completely obscuring and protecting the raw metal surfaces at the extremities of the threaded band which is nested within the outer smooth shell.

Another object of the invention is to provide a closure of the type disclosed in the above mentioned application which, in attaining the above noted protective features, results in a closure that is free from conspicuous joints and sharp edges and which is satisfactory in use.

Other objects will be in part apparent and in part pointed out hereinafter.

In the drawing:

Fig. 1 is a vertical transverse sectional view of a metal closure manufactured in accordance with the principles of the present invention;

Fig. 2 is a fragmentary sectional view taken substantially along the line 2—2 of Fig. 1.

The closure includes an outer shell 10 consisting of a circular top portion 11 and a depending annular flange or skirt 12, the latter having its lower edge portion beaded or curled inwardly and upwardly to form a hollow bead 13 within which the lower edge 14 of a screw band 15 is nested.

The screw band 15 is provided with screw threads 16 that are rolled in the usual manner. The band is slightly greater in length than the internal circumference of the skirt 12 and the adjacent ends thereof are folded or reversed upon themselves outwardly in such a manner that the raw edges 17 thereof are concealed behind the metal of the band and occupy a position in close proximity to the inner surface of the outer shell 10. The screw threads 16 terminate short of the ends of the band 15.

The folded ends of the band 15 abut as at 18 in such a manner as to present a smooth joint that will not interfere with the application of the assembled closure to a container.

From the above description it is apparent that the present invention results in a closure in which the contents of the container to which it may be applied cannot seep through the joint 18 and penetrate the spaces 19 behind the metal of the band 15 in which the raw edges 17 are nested. Furthermore, all exposed portions of the closure are smooth and even and there are no rough portions or projections present that might be obstructed by fins or other defects that are sometimes encountered in screw threaded types of finishes on glass containers.

Modifications may be resorted to within the spirit and scope of the appended claims.

I claim:

1. A closure formed of sheet metal and comprising a top cover portion and a two-ply depending skirt, the outer ply of the skirt being integral with the cover portion and the inner ply being formed of a strip of slightly greater length than the internal circumference of the outer ply and being curved to fit within said outer ply, said inner ply being formed with screw threads that terminate short of the ends of the strip, the extreme ends of said strip being folded upon themselves outwardly and being nested between the metal of the strip and the wall of the shell.

2. A closure formed of sheet metal and comprising a top cover portion and a two-ply depending skirt, the outer ply of the skirt being integral with the cover portion and the inner ply being formed of a strip of slightly greater length than the internal circumference of the outer ply and being curved to fit within said outer ply, said inner ply being formed with screw threads that terminate short of the ends of the strip, the extreme ends of said strip being nested between the metal of the strip and the wall of the shell.

3. A closure formed of sheet metal and comprising a top cover portion and a two-ply depending skirt, the outer ply of the skirt being integral with the cover portion and the inner ply being formed of a strip of slightly greater length than the internal circumference of the outer ply and being curved to fit within said outer ply, said inner ply being formed with screw threads that terminate short of the ends of the strip, said ends being folded upon themselves outwardly and being nested between the metal of the strip and the wall of the shell, the edges formed by said ends being folded abutting in close proximity to said shell.

LESLIE R. N. CARVALHO.