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CLOSURE SEAT FOR METALLIC CONTAINERS

Filed Dec. 22, 1924

Fig. 1.

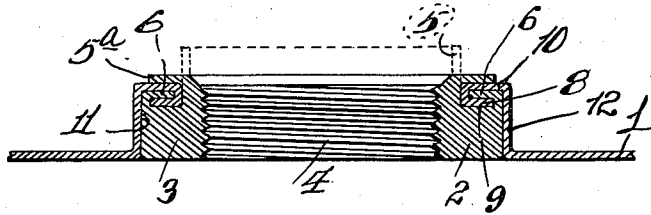


Fig. 2.

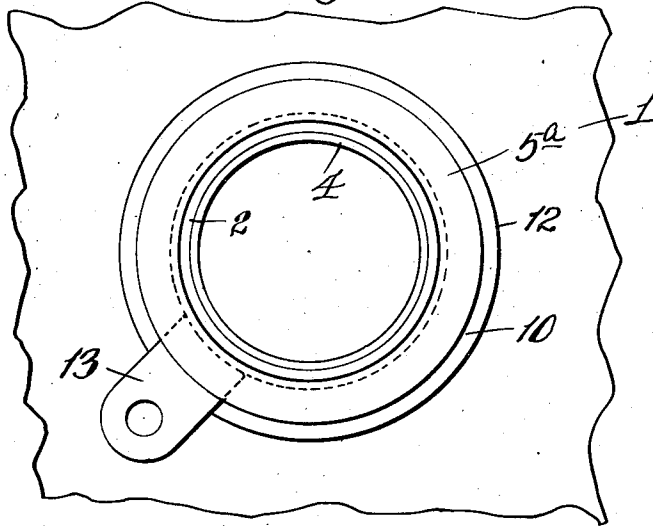


Fig. 3.

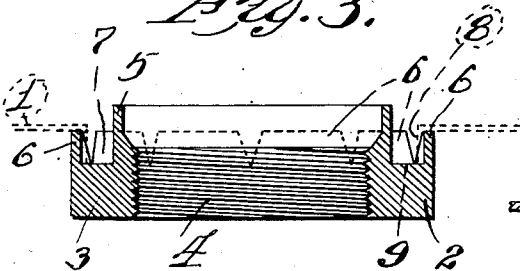
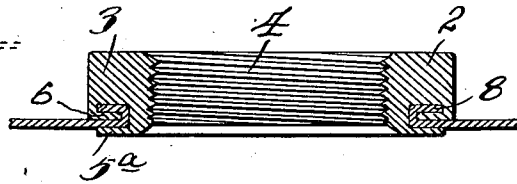


Fig. 4.



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CLOSURE SEAT FOR METALLIC CONTAINERS.

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This invention relates to an improvement in metallic containers which are constructed of sheet metal and are known to the trade as barrels or drums, the primary object of the invention being, to provide an improved construction of closure seat with which a plug or closure member is co-operable.

Another object of the invention, is, in providing an improved method or way of securing the closure seat to the container or barrel head.

A further object of the invention is, in providing an improved method of interengaging and securing the closure seat with the sheet metal material of the barrel head.

A further object of the invention is, in providing improved means in a closure seat for a metallic container, whereby a double lock seam or joint is provided for securing the closure seat to the container.

Other and further objects will appear in the specification and be specifically pointed out in the appended claims, reference being had to the accompanying drawings exemplifying the invention, and in which,

Fig. 1 is a vertical transverse section taken through a portion of a sheet metal barrel head, showing the improved closure seat secured thereto.

Fig. 2 is a fragmentary plan view of Fig. 1.

Fig. 3 is a vertical transverse section taken through the closure seat showing the foldable portions in extended positions before the swedging or pressing operation.

Fig. 4 is a vertical transverse section taken through the closure seat showing it mounted in a reverse position in the barrel head.

With reference to the accompanying drawings 1 designates a portion of a sheet metal barrel head which is provided with a circular opening for the reception of the closure seat 2, said seat being comprised of an annular body portion 3 having a centrally arranged threaded opening 4 and arranged around said opening is an annular flange 5 which extends vertically before the pressing operation is carried on for the securing of the closure seat 2 to the barrel head 1.

Extending upwardly from the outer edge of the body portion 3 is a plurality of vertically extending lips 6, said lips being shorter in length than is the flange 5 and are arranged a distance away from said flange so as to provide an annular groove 7.

In the operation of securing the closure seat to the barrel head, the edge of the material surrounding the circular opening in which the closure seat is to be mounted is bent downwardly as designated at 8 in Fig. 3 wherein the depending edge 8 will be engaged inwardly of the lips 6 and within the groove 7.

After the mounting of the depending portion 8 of the barrel head 1 into the groove 7, the lips 8 are then folded inwardly and downwardly in which operation said lips will carry the depending portion 8 therewith, thereby firmly pressing the portion 8 against the bottom 9 of the groove 7. The folding operation of the lips 6 upon the portion 8 of the barrel head 1, will draw an annular portion 10 of the barrel head upon the lips 6 as shown in Fig. 1 thereby providing a base against which the vertically extending flange 5 is forced by the operation of an outwardly swedging or pressing tool, the extending edge of the flange 5 being then disposed horizontally as shown at 5^a in Fig. 1. The material surrounding the base or portion 10 of the barrel head is then pressed annularly around the outer vertical edge 11 of the body portion 3 as designated at 12, thereby permitting the barrel head proper to be extended horizontally from the body portion 3 in a manner wherein the inner periphery of the barrel head will be approximately flush with the lower surface of the body portion 3. The flush relation of the barrel head with the lower surface of the body portion 3 provides for the entire contents of the barrel to be completely drained. From the disclosure of this improved closure seat and the manner of mounting operation thereof, it is obvious that a very secure and tight joint is provided between the surrounding material of the barrel head and the closure seat, as the seam or joint provided is obviously a double lock seam or joint.

In some instances it may be desired to secure this improved form of closure seat to the barrel head above the top surface of the barrel head and to accomplish this purpose, the closure seat can be reversed from the position disclosed in Fig. 1 to that disclosed in Fig. 4 and in this instance the surrounding material of the barrel head need not be pressed around the outer vertical edge of the body portion 3, the material of the barrel head after being secured to the body portion

3 being extended horizontally in a direct manner from its place of connection with the body portion.

For providing an identifying tag securing means to the barrel a relatively flat apertured strip of material 13 is engaged against the outer periphery of the flange 5 before the folding operation of said flange, the outwardly folding of said flange securing the apron in place.

What I claim is:

1. A sheet metal container having an aperture formed in one of its walls, an interiorly threaded body portion located in the aperture of said container wall, said body portion having an outwardly bendable projecting portion and an inwardly bendable portion of lesser length than said projecting portion for co-operation with the material surrounding said aperture for securing the body portion within the aperture and to the container wall.

2. A closure seat for a metallic container comprising a sheet metal wall having an aperture formed therein, a body portion having an annular groove and a projecting portion formed on each side of said groove, one of said projecting portions being longer than the other portion and adapted to be projected through said aperture, said other projecting portion adapted to be engaged against and over-lap a portion of the material surrounding said aperture and force the surrounding material in said groove, said other projecting portion adapted to be forced downwardly in over-lapping relation to said other projecting portion and the material engaged by said other portion.

3. A closure seat for a container having an opening formed therein, comprising a body portion having a reduced extension, a second extension arranged outwardly of said other extension, said reduced extension adapted to be engaged in the opening of the container, said second extension adapted to over-lap a portion of the material surrounding said opening, said reduced extension adapted to over-lap said second extension.

4. The combination of a metal barrel head having an opening formed therein, a body portion having a reduced cylindrical extension and an outwardly arranged extension, said reduced extension being mounted in said opening, the edge of the material surrounding said opening being engaged and over-lapped by said outer extension when said outer extension is bended thereover, said reduced extension when forced downwardly adapted to over-lap a portion of said barrel head and said outwardly arranged extension.

5. A sheet metal container having an aperture formed in one of the walls thereof, an interiorly threaded body portion located in said aperture, said body portion having an outwardly bendable annular projecting portion and an inwardly bendable projecting portion for co-operation with the material surrounding said aperture for securing said body portion in the aperture of the wall, said inwardly bendable portion adapted to be engaged with the material surrounding said aperture and bent so as to fold the surrounding material therewith, said annular projecting portion adapted to be forced outwardly and in over-lapping relation to said other projecting portion and the material folded thereby.

6. A closure seat for a metallic container comprising an interiorly threaded body portion having an inwardly arranged projecting annular flange and a series of projecting lips surrounding said flange at a distance therefrom, one of the walls of said container having an aperture formed therein, said flange adapted to be projected through said aperture, said lips adapted to engage with the material surrounding said aperture and bended so as to over-lap said surrounding material, said flange adapted to be pressed outwardly in over-lapping relation to said lips and the material folded thereby, a portion of the wall of said container being pressed annularly around the outside edge of said body portion.

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