April 7, 1931. R. L. PARISH 1,799,244

CONTAINER AND SEALING MEANS THEREFOR

Filed Nov. 16, 1928

Fig. 1.

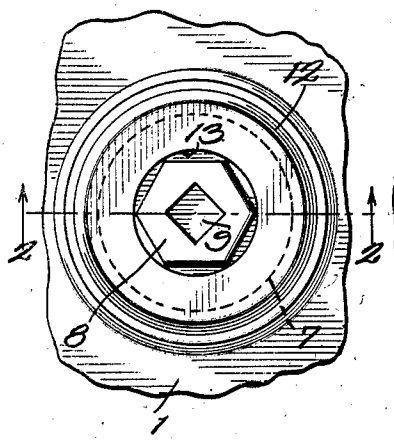


Fig. 3.

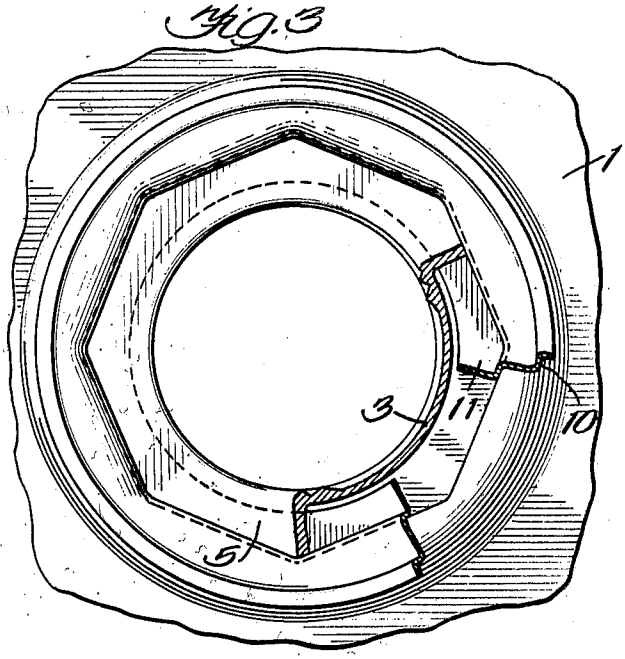


Fig. 2.

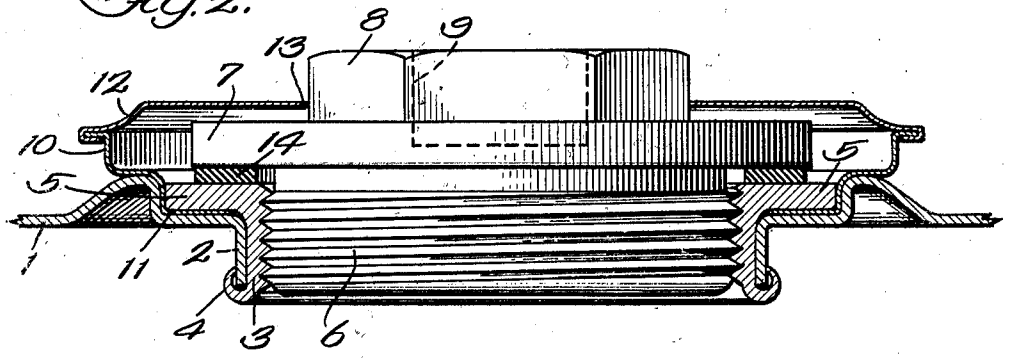
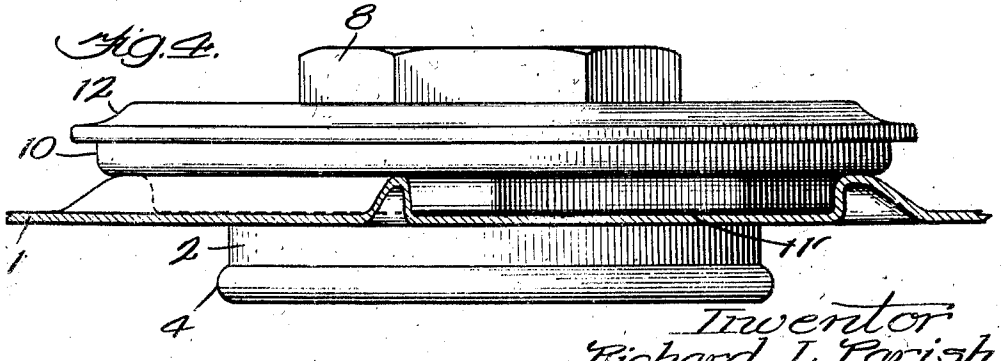


Fig. 4.



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UNITED STATES PATENT OFFICE

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CONTAINER AND SEALING MEANS THEREFOR

Application filed November 16, 1928. Serial No. 319,914.

My invention relates to containers and sealing means therefor and has for its object the provision of means whereby a closure plug may be tightened after the sealing means is in place, but may not be moved in an opening direction to a sufficient extent to permit appreciable removal of the container contents.

A structure made in accordance with my invention is inclusive of an interiorly threaded bushing assembled with a wall of the container in alignment with a hole in such wall provided for the admission and discharge of the container contents, said bushing having a flange which laps the wall where the wall surrounds the hole, a closure plug screwed within the bore of the bushing, and a guard comprising a body portion having a part which is clamped by the bushing flange between this flange and the portion of said wall which is lapped by this flange and a portion joined with said body portion and lapping the plug, but formed to permit application of a tightening tool to the plug, the guard portion which laps the plug being sufficiently close to the plug to obstruct and prevent complete removal of the plug from the bushing.

The invention will be more fully explained by reference to the accompanying drawing in which Fig. 1 is a face view of the preferred embodiment of the invention; Fig. 2 is a sectional view on line 2—2 of Fig. 1 on a larger scale; Fig. 3 is a face view of the structure minus the plug and the plug lapping portion of the guard, parts being broken away; and Fig. 4 is an elevation of the structure as it appears in Fig. 2, but the container wall in irregular cross section.

The container, such as a metallic barrel, has one wall thereof, such as the sheet metal wall 1 formed with a depending rim 2 which surrounds a circular hole formed through this wall. An interiorly threaded bushing 3 is snugly received within this hole and is closely surrounded by said rim, this bushing being shown with an outwardly curled inner edge portion 4 which grips the inner edge of said rim 2 and a circumscribing flange 5 which is tightly seated, this flange lapping the portion of this wall that surrounds the hole. The closure plug 6 is screwed within the bushing 3 and is formed with a circumscribing flange 7 which laps the bushing flange 5 and wall 1. The outer end of the plug is formed with two tool engaging formations, one in the form of an enlargement 8 which is of hexagonal or polygonal exterior contour, and the other in the form of a recess 9 extending through the enlargement 8, this recess being of square or other non-circular contour to receive a wrench having a plug formation snugly receivable within and corresponding in shape to said recess.

The guard comprises an annular body portion 10 having a base part 11 which is clamped by the bushing flange between the flange and the portion of said wall which is lapped by this flange. The guard is inclusive of another annular portion 12 which is joined with the body portion and is provided with an annular hole 13 through which the tool engaging formation 8 outwardly extends to be engageable by a plug tightening tool after parts are assembled as most clearly illustrated in Fig. 2. A sealing gasket 14 is tightly clamped by the plug flange 7 between this flange and the bushing flange 5.

It is manifest that when it is desired to remove the closure plug a tool may be used to unscrew it and that during this operation the guard becomes distorted and the upper portion is torn from the lower portion. As the lower portion has a flat part clamped between the bushing flange and portion of the container wall which is lapped by this flange it remains in place. Thus when the guard is destroyed by the removal of the closure plug a "tell-tale" remains and the guard cannot be fraudulently replaced.

Having thus described my invention, I claim:

1. The combination with a container of the class described with a hole through the wall thereof; of a threaded bushing assembled with said wall in alignment with said hole, said bushing having a flange which projects over the wall where the wall surrounds the hole; a threaded closure plug screwed within the bore of the bushing and having wrench-receiving means, and a guard comprising a

lower annulus portion having an annular flat part clamped between the bushing flange and the portion of said wall over which this flange projects and an upper cap portion separably connected to said lower portion and having a part lapping said closure plug and an opening therein whereby a wrench may be applied to said wrench-receiving means for the purpose of tightening said closure plug without affecting said guard and also for the purpose of removing the plug and at the same time removing the upper portion of said guard, the lower portion remaining clamped in place as an irremovable tell-tale.

2. The combination with a container with a hole through the wall thereof; of a threaded bushing assembled through the wall in alignment with said hole, said bushing having a flange which projects over the wall where the wall surrounds the hole; a threaded closure plug screwed within the bore of the bushing and having wrench receiving means; and a guard completely enclosing said flange and the top of said plug except for said wrench receiving means, said guard comprising a lower member having an annular portion which is permanently held between the bushing flange and the portion of said wall over which said flange projects, and an upper member connected to the lower member and lapping the plug but formed with a hole to permit application of a tightening tool to the plug, the guard being destroyed by removal of the closure plug while the portion of the lower member remains held in place as an irremovable tell-tale.

3. The combination with a container of the class described with a hole through the wall thereof, the wall having a polygonal ridge spaced from said opening, of a threaded bushing assembled with the wall in alignment with said hole and formed with a polygonal flange, a threaded closure plug screwed within the bore of the bushing; and a guard having a circular portion clamped between said flange and the portion of the wall surrounding said hole, a polygonal portion engaging said polygonal ridge and engaged by the edge of said polygonal flange, and an annular top portion lapping said plug and having an opening to permit application of a tool to tighten said plug and to remove the plug, the top part of the guard being destroyed by removal of the closure plug while the lower part remains clamped in place between said flange and wall as an irremovable tell-tale.

4. The combination with a container of the class described with a hole through the wall thereof; of a threaded bushing assembled with said wall in alignment with said hole, said bushing having a flange which projects over the wall where the wall surrounds the hole; a threaded closure plug screwed within the bore of the bushing and having wrench-receiving means, and an annular guard having an annular lower part clamped between the bushing flange and the portion of said wall over which this flange projects and an upper part connected to said lower portion and lapping said closure plug and having an opening therein whereby a wrench may be applied to said wrench-receiving means for the purpose of tightening said closure plug without affecting said guard and also for the purpose of removing the plug and at the same time removing the upper part of said guard, the annular lower part remaining clamped in place as an irremovable tell-tale.

In witness whereof, I hereunto subscribe my name.

RICHARD L. PARISH.