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SEALING CAP FOR THE PLUGS OF METALLIC DRUMS AND THE LIKE

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Fig. 1.

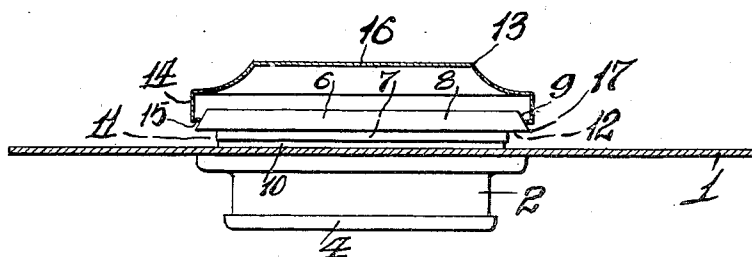


Fig. 2.

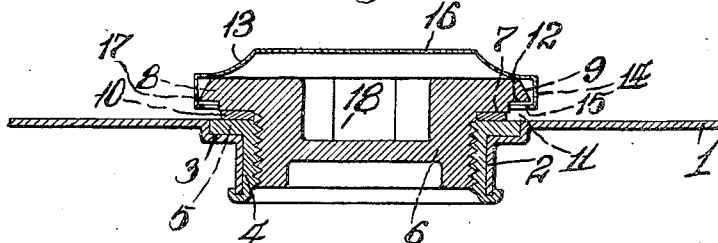
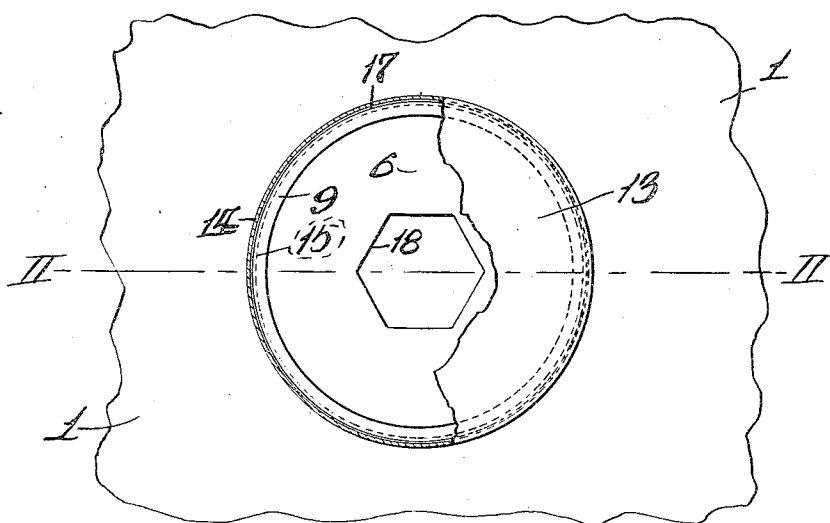


Fig. 3.



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SEALING CAP FOR THE PLUGS OF METALLIC DRUMS AND THE LIKE

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This invention relates to improvements in a sealing cap for the plugs of metallic drums and the like and has for its primary object to provide a simple means of obstruction which must be destroyed before the plug can be removed from the bung hole of the drum.

Another object of the invention is in providing a sealing cap for the closure plug of a container for obstructing undetectable access to the plug for the removal thereof.

A further object of the invention is in providing a sealing cap which is secured to the closure plug of a container in an improved and simple manner.

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

Figure 1 is a fragmentary view partly in section of a portion of a container wall with which the closure plug is cooperable, showing the sealing cap about to be secured over the plug.

Figure 2 is a fragmentary vertical section taken on the line II—II of Fig. 3 through the closure plug which is secured in a bung hole bushing and showing the sealing cap mounted in secured position over the plug.

Figure 3 is a fragmentary plan view of Fig. 2 partly in section.

Referring by numerals to the accompanying drawing 1 designates a wall of a metallic container such as is used in oil shipping, and formed in the wall is a depending neck 2 and disposed concentrically around the neck 2 is a countersunk portion 3. A threaded bushing 4 is mounted in the neck 2, said bushing having a flange 5 which is disposed in the countersunk portion 3. The bushing 4 is secured against turning in the neck 2 in a desired manner.

Cooperable with the bushing for providing a closure for the container is a threaded plug 6 having a gasket engaging shoulder 7 and a circumferential flange 8 above the shoulder, the flange 8 having a diameter larger than the shoulder 7 and having a beveled or tapered face 9 on its perimeter.

When the plug 6 is secured in the bushing 4

in making the container ready for shipment with a content in the container, the shoulder 7 of the plug will bear against the gasket 10 and in this position of gasket sealing, it will be noted that an annular gap 11 is provided between the inner or under-disposed annular horizontal face 12 of the plug flange 8 and the flange 5 of the bushing 4. This is for the purpose hereinafter described with respect to the application of the sealing cap.

After the securing of the plug 6, a one piece sealing cap 13 of a light weight resilient metal having a depending side wall 14 and an inturned lip or edge 15 is mounted over the plug and the inturned lip or edge 15 will rest upon the annular beveled face 9 approximately as shown in Fig. 1 and the top 16 of the cap 13 is then engaged and pressed against the plug and as the annular lip 15 rides down the beveled face 9, the wall 14 of the cap will be forced outwardly sufficiently to permit the lip 15 to ride over the outer edge 17 of the beveled face 9 and the annular lip 15 after leaving the beveled face 9 will snap under the inner face 12 of the plug flange 8 thus securing the sealing cap to the plug 6. The annular gap 11 provided between the plug flange 8 and the container wall 1 provides ample room for permitting the inturned annular lip 15 to snap into place adjacent the inner face 12 of the flange 8.

This manner of securing the sealing cap to the plug may provide a loose engagement therewith which will permit turning of the cap, this being immaterial however for it is the purpose of the invention to merely cover the wrench engaging end of the plug in a sealed manner for in the event of removal of the sealing cap, the engaging inturned edge 15 would be destroyed and if a Stillson wrench or the like were used over the sealing cap without the removal thereof, the mutilation of the cap would be clearly discernible.

As aforementioned it is preferable to have the perimeter of the plug flange of a circumferential or circular shape to permit spreading engagement of the inturned edge 15 of the sealing cap 13 and to provide ease of application of the sealing cap to the plug without the requirement of special tools.

While the plug shown and described is provided with a polygonal countersunk socket 18 for wrench engagement, it is obvious that my improved cap is also applicable to plugs having a raised wrench engaging portion.

It is obvious that various changes may be made in the details of construction without departing from the spirit of this invention, and it is therefore to be understood that this invention is not to be limited to the specific construction shown and described.

What I claim is:—

1. A threaded plug for a container having a flanged end, said flange being beveled on its outer perimeter and having a horizontal inner surface, and a cap having a resilient intumed lip at its open end adapted to be forceably engaged over the beveled edge of said plug into under engagement with the horizontal inner surface of said flange.

2. A container having an opening in one of its walls, a plug for said opening having a beveled face on its perimeter and an undercut horizontal annular surface joining said beveled face, and a sealing cap having a resilient intumed lip at its open end adapted to be forced over the beveled face of the plug into underengagement with the horizontal annular surface of said flange.

3. A closure plug for a container having a flanged end, said plug being threaded at its opposite end and having a shoulder disposed between the flanged end and the threaded end, the flanged end of said plug being beveled on its perimeter and having an annular horizontal face from the perimeter to the shoulder thereof, wrench engaging means forming a part of the plug disposed inwardly of the perimeter thereof, and a sealing cap having an annular intumed lip adapted to be engaged over the flange of said plug, said beveled face of said flange providing for the spreading of the annular lip of said cap as the cap is being forced on said plug for underengagement of the lip of the cap with the horizontal face of the flange.

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