July 31, 1928. 1,679,273

S. SCHWARTZ

CONTAINER

Filed June 11, 1927

Fig. 1.

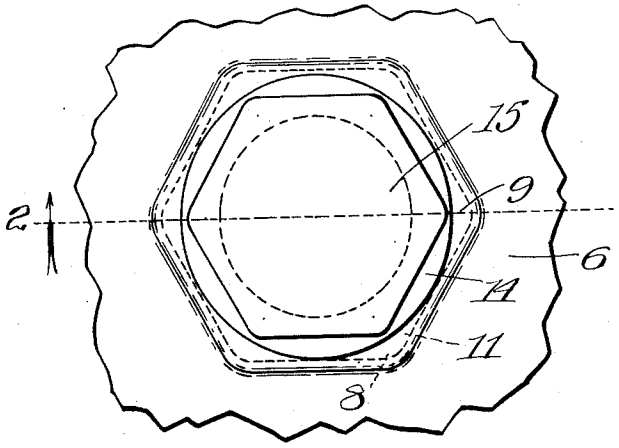


Fig. 2.

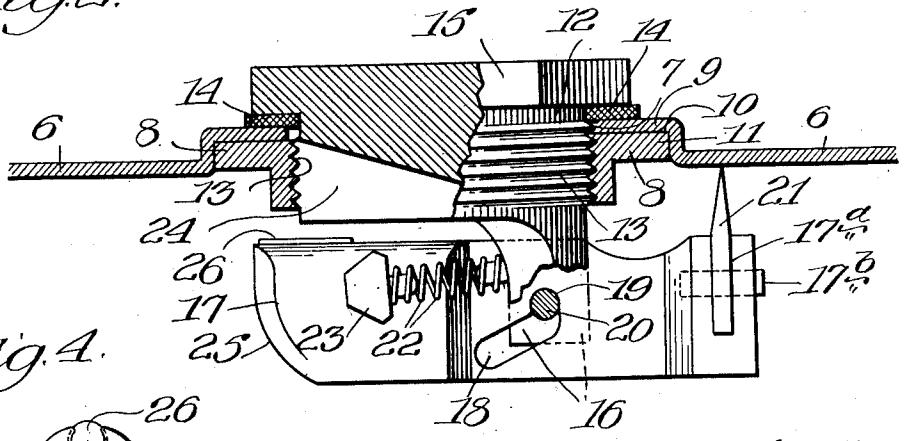


Fig. 4.

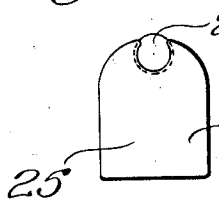


Fig. 3.

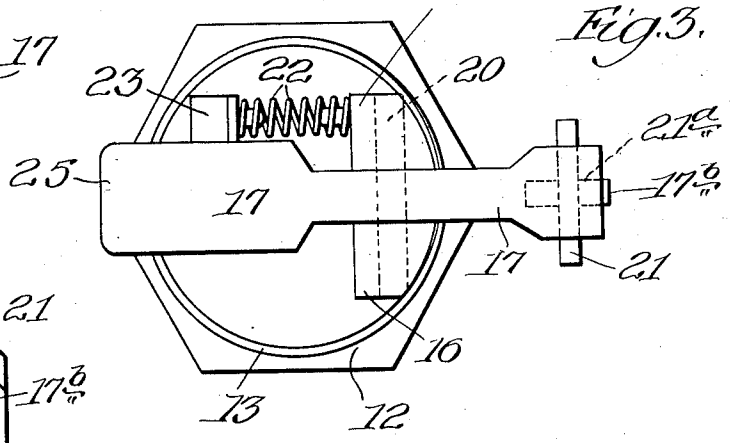
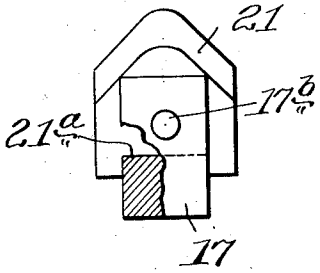


Fig. 5.



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UNITED STATES PATENT OFFICE.

SAUL SCHWARTZ, OF CHICAGO, ILLINOIS, ASSIGNOR TO HENRY SCHWARTZ, OF CHICAGO, ILLINOIS.

CONTAINER.

Application filed June 11, 1927. Serial No. 198,241.

My invention relates to containers in general, but more particularly to cans, or drums, for fluid, such as for example and more particularly, lubricating oils; and my primary object is to provide simple and economical means for preventing resealing of the containers, after the opening of the same for removal of their contents, thereby preventing unscrupulous persons from removing the contents of the containers and substituting other contents therefor and disposing of such substituted contents in place of the original contents.

Referring to the accompanying drawings:—

Figure 1 is a broken plan view of the plug-equipped portion of a container constituting one embodiment of my invention. Figure 2 is a sectional view taken through this portion of the container, the section being taken at the line 2 on Fig. 1 and viewed in the direction of the arrow. Figure 3 is a bottom plan view of the plug. Figure 4 is an end view of the cutter-equipped member of the plug, this member being viewed from the left in Fig. 2; and Figure 5, an end view of this member viewing it from the right-hand end of Fig. 2, showing a portion of the member broken away to disclose a detail of the cutter.

In the form of container shown, the wall in which the filler opening is provided and which may be the top of the container, is represented at 6 and is shown as apertured at 7 to which portion an internally-threaded flanged bushing 8 is secured. The edge portion of the wall 6 surrounding the opening 7 is deflected, as represented at 9, this deflection being shown as extending outwardly and affording an annular recess 10 in which the annular flange 11 of the bushing 8 is seated and in which it is secured, as for example by welding. The internally-threaded opening thus provided by the bushing for the container constitutes the filler opening thereof to receive a closure-plug.

The plug of the construction shown and represented at 12 is externally screw threaded as represented at 13 at which it is adapted to screw into the threaded opening in the bushing 8, a gasket 14 being preferably interposed between the upper annular flange portion 15 of the plug and the opposing wall portion of the container.

The plug 12 below its threaded portion is provided with depending spaced apart ears 16 between which a bar member 17 is located. The bar member 17 is shown as provided with a slot 18 which extends generally lengthwise thereof, but inclining slightly upwardly, and terminating at its right-hand upper end in a journalling recess 19 through which a pin 20 secured in the lug 16 extends. The member 17 is of such length and the slot 18 and recess 19 so disposed that when the pin 20 extends into the recess 19, the member 17 will extend at opposite ends beyond the threaded portion of the plug, as shown in Fig. 2, the right-hand end of this member extending considerably beyond the side wall of the plug and being provided with an upwardly-extending cutting blade 21 which opposes the wall 6 of the can beyond the bushing 8 as shown.

The cutting blade 21 is shown as located in a recess 17^a in the member 17 and pinned thereto as shown at 17^b, the blade being preferably notched, as represented at 21^a, to interlock with the member 17 as shown and brace it against displacement.

It is desired that the normal position of the member 17 on the body of the plug be that in which the pin 20 extends into the recess 19 as shown in Fig. 2 and to this end the device is provided with a coil spring 22 interposed between a stop lug 23 on the member 17 and one of the lugs 16 and serving to yieldingly shift the member 17 to the left in Fig. 2.

In the application of the plug to the filler opening in the container the operator first pushes the bar 17 to the right in Fig. 2 against the resistance of the spring 22, until the pin 20 engages the left hand end of the slot 18, and rotates the member 17 on this pin in clockwise direction, in this figure to a position in which the left-hand end of the member 17, which is rounded as represented at 25, enters a recess 24 in the bottom of the plug. With the parts thus positioned, he then, by canting the plug, inserts it at its cutter portion into the filler opening and thereupon rights the plug and rotates it to engage its screw thread with the thread in the filler opening, the member 17 in the act of rotating the plug to place automatically shifting, under the action of the spring 22, to the position shown in Fig. 2.

In the unscrewing of the plug the upper surface of the left-hand end of the member

17, which is preferably provided with an anti-friction roller 26, engages the underside of the bushing 8 thereby causing the member 17 to rock upwardly at its cutter end, the cutter penetrating the wall 6 and entirely cutting away the portion of this wall in which the bushing 8 is located, and thereby preventing the re-sealing of the container.

While I have illustrated and described a particular construction embodying my invention, I do not wish to be understood as intending to limit it thereto as the same may be variously modified and altered without departing from the spirit of my invention.

What I claim as new, and desire to secure by Letters Patent, is:

1. The combination with a container having a threaded opening, of a threaded closure-plug for said opening provided with means operating upon the unscrewing of said plug to mutilate the portion of the container in which said threaded opening is provided beyond the thread thereof.

2. The combination with a container having a threaded opening, of a threaded closure-plug for said opening provided with means operating upon the unscrewing of said plug to cut out the portion of said container in which said threaded opening is provided beyond the thread thereof.

3. The combination with a container having an opening and a threaded bushing at said opening, of a threaded closure-plug for said bushing provided with means operating upon the unscrewing of said plug to mutilate the wall of the container in which said bushing is secured.

4. The combination with a container having an opening and a threaded bushing in said opening, of a threaded closure-plug for said bushing provided with means operating upon the unscrewing of said plug to cut out said bushing.

5. The combination with a container having a threaded opening, of a threaded closure-plug for said opening provided with a cutter adapted, upon the unscrewing of said plug, to mutilate the portion of the container in which said threaded opening is provided beyond the thread thereof.

6. The combination with a container having an opening and a threaded bushing in said opening, of a threaded closure-plug for said bushing provided with a cutter operating, upon the unscrewing of said plug, to mutilate the wall of the container to which said bushing is secured.

7. The combination with a container having a threaded opening, of a threaded closure-plug for said opening provided with a transversely-disposed member at its inner end and a cutter on said member adapted to cut out the wall portion of the container in which said threaded opening is provided beyond the thread thereof.

8. The combination with a container having a threaded opening, of a threaded closure-plug for said opening provided with a transversely-disposed member at its inner end and projecting at its ends beyond opposite sides of said plug and a cutter on one end of said member, for the purpose set forth.

9. The combination with a container having a threaded opening, of a threaded closure-plug for said opening provided with a transversely-disposed member rockably mounted on the inner end of said plug and projecting at its ends beyond opposite sides of said plug and a cutter on one end of said member, for the purpose set forth.

10. The combination with a container having a threaded opening, of a threaded closure-plug for said opening provided with a transversely-disposed member at its inner end and projecting at its ends beyond opposite sides of said plug and a cutter on one end of said member, said member being movable transversely of said plug, for the purpose set forth.

11. The combination with a container having a threaded opening, of a threaded closure-plug for said opening provided with a transversely-disposed member rockably mounted on the inner end of said plug and projecting at its ends beyond opposite sides of said plug and a cutter on one end of said member, said member being movable transversely of said plug, for the purpose set forth.

12. The combination with a container having a threaded opening, of a threaded closure-plug for said opening, a member extending transversely of said plug at the inner end of the latter, a pin on said plug, said member containing a slot through which said pin extends and at which said member is supported, said slot extending generally in the direction of the length of said member and having an upwardly-extending recess adjacent one end of said slot, and a cutter on said member, for the purpose set forth.

13. The combination with a container having a threaded opening, of a threaded closure-plug for said opening, a member extending transversely of said plug at the inner end of the latter, a pin on said plug and a cutter on one end of said member, said member containing a slot through which said pin extends and at which said member is supported, said slot extending generally in the direction of the length of said member and having an upwardly-extending recess located between said cutter and one end of said slot.

14. The combination with a container having a threaded opening, of a threaded closure-plug for said opening provided with a transversely-disposed member at its inner

end, a cutter on said member, said member being movable transversely of said plug and a spring resisting said movement of said member in one direction.

15. The combination with a container having a threaded opening, of a threaded closure-plug for said opening, a transversely-disposed member on the inner end of said plug, a cutter on said member, said member being rockably supported on said plug and adapted for movement transversely of the latter, and a spring resisting said movement of said member in one direction.

16. The combination with a container having a threaded opening, of a threaded closure-plug for said opening, a member extending transversely of said plug at the inner end of the latter, a pin on said plug, a cutter on said member, said member containing a slot through which said pin extends and at which said member is supported, said slot extending generally in the direction of the length of said member and having an upwardly-extending recess located between said cutter and an end of said slot, and a spring resisting the movement of said member transversely of said plug in one direction.

SAUL SCHWARTZ.