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C. B. CADWALLADER

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PAIL

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Fig. 1.

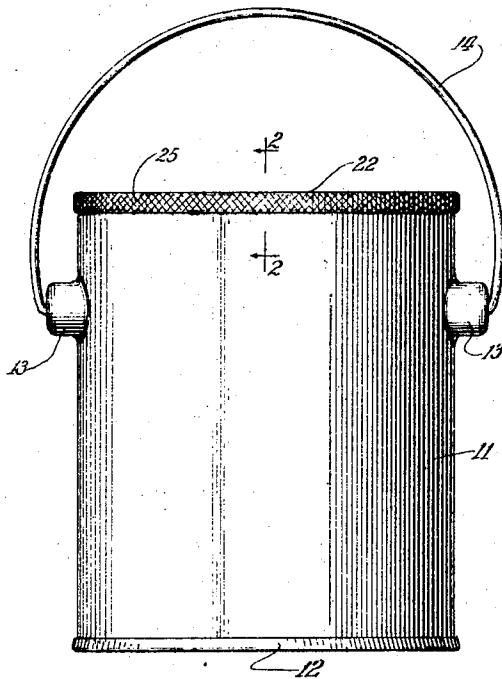


Fig. 2.

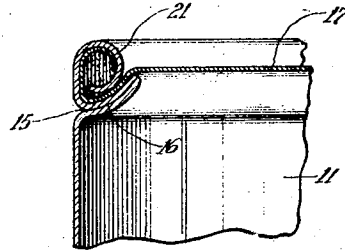


Fig. 3.

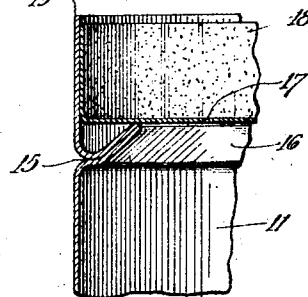


Fig. 5.

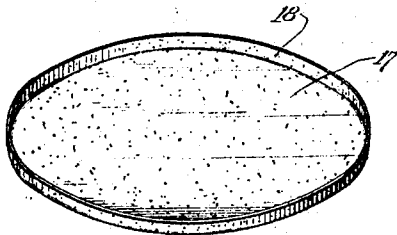
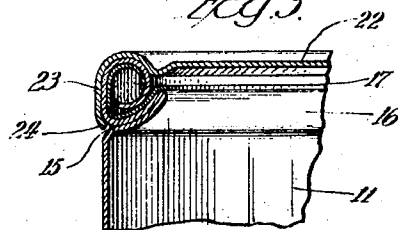


Fig. 3.



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This invention relates in general to containers, and more particularly to metallic containers adapted for use in packing, transporting and merchandising various substances.

An important object is to provide such a device having a frangible seal or top closure and an auxiliary top closure that may be attached to said container before and after the removal of said frangible closure and that will not become displaced by ordinary internal pressure or the like.

Another important object is to provide such a device that may be economically manufactured, and such a device particularly adapted for the transportation and vending of peanut butter or the like.

Numerous other objects and advantages of the invention will be apparent as it is better understood from the following description, which, taken in connection with the accompanying drawings, discloses a preferred embodiment thereof.

Referring to the drawings,
Figure 1 is an elevational view of a device embodying my invention;

Fig. 2 is a section taken substantially on line 2—2 of Fig. 1 and with the auxiliary cover removed;

Fig. 3 is a similar view with the frangible seal removed and the auxiliary cover in place;

Fig. 4 is a similar view showing the body and frangible top closure before the sealing operation; and

Fig. 5 is a perspective view of a frangible top closure.

On the drawings, reference character 11 indicates a container body which is or may be cylindrical and of any suitable dimensions having a bottom closure 12 permanently secured thereto and bail ears 13 may also be permanently secured thereto if desired to facilitate the attachment of a bail 14.

The body 11 is or may be formed inwardly from the periphery thereof to provide a recess 15 and an inwardly extending flange or shoulder 16 which may be curved away from the plane thereof at its inner extremity if desired. The flange 16 is preferably pro-

vided to form a support for a frangible top closure 17 which may be of any suitable material, such as a material that may be readily cut with a knife or the like and of sufficient size to extend to the inner wall of the container body 11. An upwardly extending flange portion 18 is preferably provided which may be of sufficient height to extend to the top end 19 of the body 11 so that the closure 17 is dished as seen in Fig. 4. The frangible top closure 17 may be secured to the body 11 after the container has been filled by rolling or forming the end 19 of the container inwardly or downwardly as at 21, and preferably to engage and clamp the closure 17 against the flange 16. The edge of the closure 17 being clamped between the parts 16 and 21 the outward curling of the extremity of the latter, as shown in Fig. 2, stretches the closure 17, and when the latter is of strong paper, as I commonly make it, the frangible closure becomes a tight drum head and the can as an entirety is very neat and slightly as well as efficient. An auxiliary cover 22 is provided which may be of any suitable material and is preferably slightly larger in diameter than the body 11 having a downwardly extending flanged portion 23, which is formed inwardly preferably at its extremity to provide a hooked portion 24, the end of which is of a smaller diameter than the outside diameter of the body 11 and is adapted to engage in the recess 15.

In operation, the container is closed after filling, as previously described, and the cover 22 may then be applied and the package is ready for storage or transportation. To open the package, it is only necessary to remove the auxiliary cover and cut out the frangible seal, after which the auxiliary cover may again be attached. In applying the cover, the hooked portion 24 of the flange 23 is sprung radially outward in passing over the top end of the body 11 and snaps into the recess 15. Considerable force is required to remove the cover by a direct pull or by an expanding force tending to separate the ends of the body, and for this reason a very secure means of attachment is effected. The cover may, however, be removed with comparative ease by simul-

taneously rotating and lifting the cover, which is facilitated by knurling the periphery of the cover as shown at 25.

It is thought that the invention and many of its attendant advantages will be understood from the foregoing description, and it will be apparent that various changes may be made in the form, construction and arrangement of the parts without departing from the spirit and scope of the invention; or sacrificing all of its material advantages, the form hereinbefore described being merely a preferred embodiment thereof.

I claim:

1. A container comprising a body having a portion of its wall near the top end of the body bent inward to form a shoulder, and a frangible closure having its margin resting on said shoulder and extending upward in a flange close to the interior of the body above the shoulder all around the interior of the can, the top marginal edge of the body wall being curled inward, downward and outward and incorporating in said curl the edge of said frangible closure, and stretching the same against said shoulder and radially outward all around the container.

2. A container comprising a body having a portion of its wall near the top end of the body bent inward to form a shoulder concave on its upper side, and a frangible closure having its margin resting on said shoulder and extending upward in a flange close to the interior of the body above the shoulder all around the interior of the can, the top marginal edge of the body wall being curled inward, downward and outward and incorporating in said curl the edge of said frangible closure, and stretching the same against said shoulder and radially outward all around the container.

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