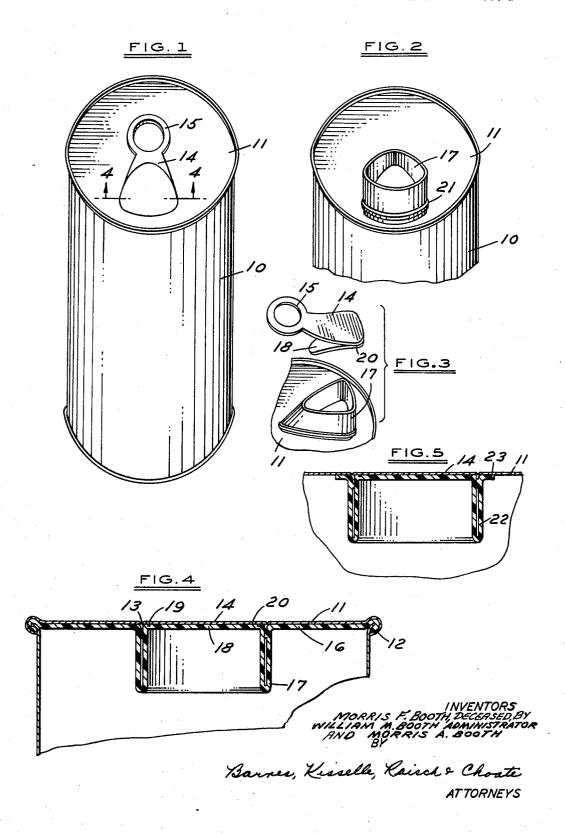
CONTAINER WITH POURING SPOUT

Original Filed Feb. 7, 1967

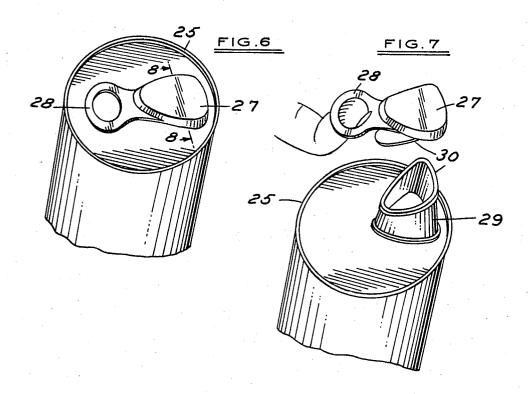
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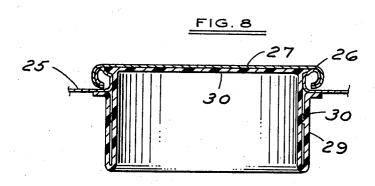


CONTAINER WITH POURING SPOUT

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2 Sheets-Sheet 2





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3,481,515 CONTAINER WITH POURING SPOUT

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Continuation of application Ser. No. 614,516, Feb. 7, 1967. This application Dec. 4, 1968, Ser. No. 781,714 Int. Cl. B65d 47/06, 47/10; B67b 7/26 U.S. Cl. 222—529 5 Claims 10

ABSTRACT OF THE DISCLOSURE

A container having a rigid top wall and a removable closure on the top wall which upon removal exposes an opening in the top wall. A flexible plastic spout is affixed at one end to the interior of the container and is adapted to extend through the opening in the unflexed condition. The closure is fixed to the spout so that when the closure is removed, the spout is drawn upwardly through the opening.

This is a continuation of Ser. No. 614,516 filed Feb. 7, 1967, now abandoned.

This invention relates to a container construction and particularly to a construction which includes a removable cap which exposes a pouring spout.

Among the objects of the invention are to provide a container having a removable cap which upon removal of the cap exposes a sanitary drinking and pouring spout; which is operable preferably to expose and open the spout on a single removing movement of the cap or closure and which is relatively simple and inexpensive.

In the drawings:

FIG. 1 is a perspective view of a container with a spout embodying the invention.

FIG. 2 is a fragmentary perspective view of the container shown in FIG. 1 with the closure removed.

FIG. 3 is a fragmentary exploded view of the container shown in FIG. 1 showing the closure removed.

FIG. 4 is a fragmentary perspective view taken along the line 4—4 in FIG. 1.

FIG. 5 is a view similar to FIG. 4 showing a modified form of closure.

FIG. 6 is a fragmentary perspective view of a further 45 modified form of container.

FIG. 7 is a fragmentary exploded perspective view of the container shown in FIG. 6.

FIG. 8 is a fragmentary sectional view taken along the

line 8—8 in FIG. 6. Referring to FIG. 1, the container 10 embodying the invention is herein shown made of metal and includes a rigid top wall 11 that is crimped along its edge 12 in accordance with conventional practice to close the metal container. The rigid wall 11 is formed with an annular 55 weakened line 13 which defines a removable cap 14 that has a tab 15 connected thereto whereby it can be pulled upwardly to open the container. A flexible plastic member 16 extends along the inner surface of the wall 11 and is connected to the container by the crimped edge 12. In underlying relation to the opening formed by the cap 14, the flexible member 16 includes a spout 17 which is flexed inwardly as shown in FIG. 4 and has an integral top 18 connected to the upper end of the spout along a weakened line 19. When the cap 14 is removed, the spout 65 2

17 flexes upwardly into the position shown in FIGS. 2 and 3. Further in accordance with the invention, the top panel 18 is adhered to the underside of the cap 14 as at 20 so that when the tab 15 is lifted to remove the cap, continued lifting movement of the cap 14 severs the top panel 18 from the spout 17 along the weakened line 19 thereby exposing the inner end of the spout. As shown in FIGS. 3 and 4, the cap 14 is generally triangular and the area 20 of adherence of the top panel 18 to the cap 14 is along the base of the triangle remote from the apex to which the tab 15 is connected. The strength of the bond 20 is greater than the force required to sever the top panel 18 from the spout 17.

A reinforcing rib 21 is provided on the spout adjacent the lower end thereof above the rigid wall 11. The rib 21 also functions as a locking rib to prevent the spout from being inadvertently pushed back into the container.

In the form of the invention shown in FIG. 5, the spout 22 is connected to top wall 11 by a flange 23 which is adhered to the top wall 11 along an area adjacent the opening or cap 14.

In the form of the invention shown in FIGS. 6-8, the top panel 25 is formed with an annular crown or flange 26 and the metal cap 27 is crimped over the flange 26. The cap is formed with a tab 28 so that it can be removed. In this form of the invention, the flexible spout 29 has the integral top panel 30 thereof adhered to the underside of the cap 27 in the same manner as the previous form of the invention.

In each form of the container, the contents may be pressurized so that the pressure assists in extending of the spout

In each of the forms of the invention, the flexing of the spout upwardly out of the container provides a sani-35 tary pouring or drinking spout.

In each of the forms of the invention, a thin metallized layer can be provided by vacuum deposition or otherwise in the event that the contents of the container tend to permeate the plastic. This increases the shelf life of the container.

We claim:

1. The combination comprising a container having a rigid top wall,

a closure portion of said top wall being connected to the remainder of the top wall by a weakened line and forming a removable closure which upon removal exposes an opening in the top wall,

a flexible plastic spout,

means for affixing said spout at one end to the interior of the container and adapted in the unflexed condition to extend through said opening,

said spout having an integral portion closing the other portion thereof,

means adhering said portion of said spout to said closure portion of said top wall whereby when said closure portion is removed said integral portion is drawn upwardly through said opening,

said integral portion being connected to the remainder of the spout along a second weakened line which is weaker than the spout itself or the means for affixing the spout to the interior of the container, so that in one motion the closure portion of the top wall may be torn along the first mentioned weakened line, the spout drawn upwardly and the integral portion of the spout torn along the weaker second mentioned weakened line.

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2. The combination set forth in claim 1 wherein said rigid top wall is made of metal.

3. The combination set forth in claim 1 wherein said

integral portion of said spout comprises

an integral member which is generally triangular in shape and is connected to the upper end of said spout along said second mentioned weakened line,

said closure having a corresponding cross-sectional

configuration,

said means affixing said closure to said spout being 10 connected such that the integral member is affixed to said closure member substantially along the base of said triangle.

4. The combination set forth in claim 1 including

an annular rib surrounding said spout intermediate its 15 ends.

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5. The combination set forth in claim 1 including material under pressure sealed within said container.

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