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G. MYSELS

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CONTAINER CLOSURE

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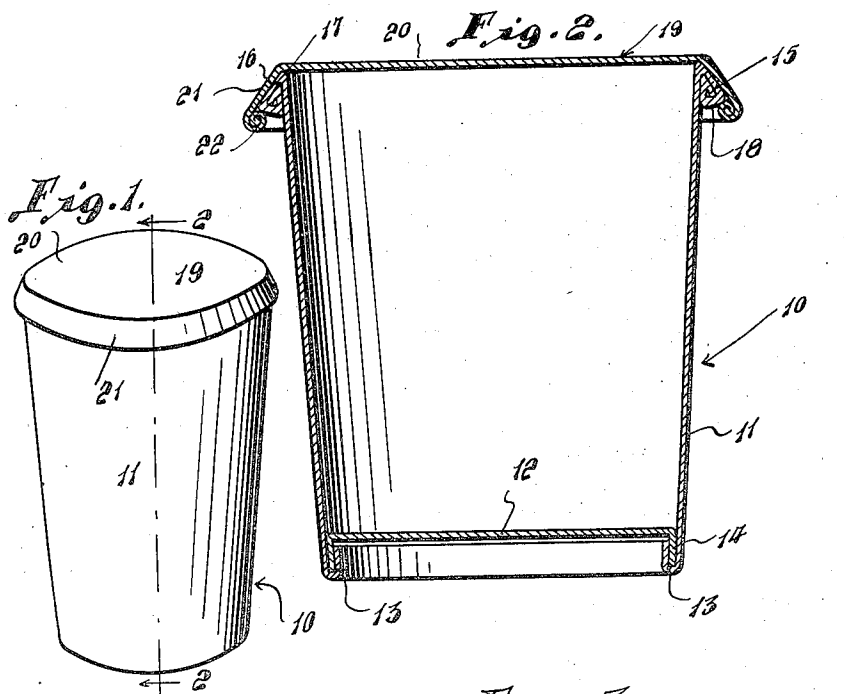


Fig. 3.

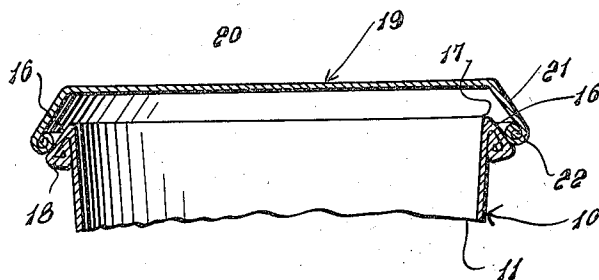
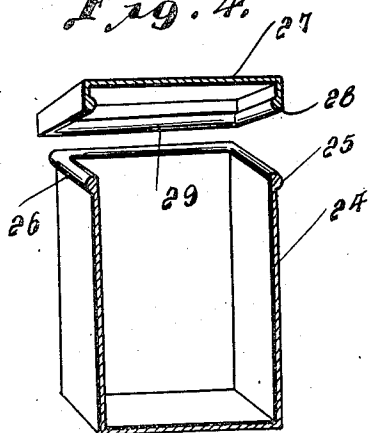


Fig. 4.



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CONTAINER CLOSURE

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1 Claim. (Cl. 229—43)

This invention relates to an improved closure for containers especially to a closure for paper containers or cups of the type commonly used in restaurants for holding beverages and other liquids and semi-solids, such as cereals and deserts, where such food and beverages are to be carried away from the restaurant for consumption.

More particularly, it is an object of the invention to provide a cover for paper cup containers having improved means for retaining the cover in position on the open top of the cup or container whereby the cover may be readily applied or removed to thereby obviate the risk of spilling the contents of the container while applying or removing the cover.

Still another aim of the invention is to provide an improved form of joint for retaining the cover in position on the container including a rim carried by the container for holding a beading of the cover in spaced relationship relatively to the wall of the container so that the beading may be readily grasped and drawn out of engagement with the rim for detaching the cover.

Other objects and advantages of the invention will hereinafter become more fully apparent from the following description of the drawing, which illustrates preferred embodiments thereof, and wherein—

Figure 1 is a perspective view of the preferred form of the invention and showing the cover in applied position.

Figure 2 is a vertical sectional view taken substantially along the plane of the line 2—2 of Figure 1.

Figure 3 is a fragmentary central vertical sectional view of the upper portion of the container and showing the cover positioned ready to be applied thereto, and

Figure 4 is a vertical sectional view of a modified form of container and cover, shown detached and in perspective.

Referring more particularly to the drawing, wherein like reference characters designate like or corresponding parts throughout the different views, 10 designates generally a container preferably formed of paper or cardboard and which comprises a cylindrical side wall 11 and a bottom 12. The side wall 11 at its lower end is turned inwardly upon itself to form an annular groove 13 for receiving an annular depending flange 14 of the bottom 12 for mounting the bottom in the cylindrical wall 11.

The open upper end of the container or cup 10 is provided with a rim, designated generally 15,

which is formed integral with the wall 11 by folding the upper end of the wall outwardly and then inwardly upon itself a plurality of times to form the rim 15 which is substantially triangular in cross section, as seen in Figures 2 and 3. The rim 15 includes an upper surface 16 which is substantially flat and which extends downwardly and outwardly from the brim 17 of the container 10. The rim 15 also includes a substantially flat under surface 18 forming a shoulder and which is disposed at an acute angle to the surface 16 and substantially at a right angle to cylindrical wall 11.

A cover for the container or cup 10, designated generally 19, includes a substantially flat top portion 20 which is adapted to cover the open top of the container 10 and to rest flush on the brim 17 thereof, and an annular flange 21 which projects outwardly and downwardly from the top portion 20 and which is provided at its free edge with an intumed rolled portion forming an annular beading 22.

As best seen in Figure 3, the circumference of the inner edge of the beading 22 is less than the circumference of the widest portion of the rim 15 and greater than the circumference of its upper narrowest portion, so that when the cover 19 is placed over the open top of the container or cup 10, beading 22 will rest on the flat surface 16 intermediate of its upper and lower edges. The cover 19, which is of the same material as the container 10, is sufficiently yieldable so that when pressed downwardly its flange 21 will spread sufficiently to allow the beading 22 to expand and slide over the widest portion of the rim 15, and to then retract to engage beneath the outer portion of shoulder 18, as seen at Figure 2. As the cover 19 is pressed down on the container 10 the surface 16 acts as a cam surface for the beading 22 for expanding it, and when said beading is released to assume the position as seen in Figure 2, the flange 21 will likewise be drawn inwardly to rest flush against the surface 16, thereby latching the cover on the container 10 for closing its open end. With the cover 19, in its applied position, as seen in Figure 2, the beading 22 engages beneath the outer portion of the shoulder 18 and is spaced from the cylindrical wall 11, so that the cover 19 can be removed by placing the fingers against the inner side of beading 22 and pulling outwardly thereon to detach a portion of the beading from the rim 15, and to thereby readily release the cover by exerting only a slight pressure thereon to obviate the danger of abruptly releasing the

cover, as where excessive pressure is required for removing it, which would result in jarring the container 10 and splashing and spilling the contents thereof.

In Figure 4, a modified form of the invention is shown comprising a container 24 which may be rectangular in cross section, or of any other desired shape, and which is provided at its upper end with an integral exterior enlargement forming a continuous rim 25 having a rounded outer portion 26. Container 10 is adapted to be closed by a cover 27 of the same shape having a depending continuous marginal flange provided at its lower free edge with an inwardly projecting enlargement forming a beading 28 which is rounded at its inner side, as seen at 29, for engaging the rounded portion 26 to expand the flange of cover 27 and permit the beading 28 to pass the rounded portion 26 of the rim 25 and to engage therebeneath for latching the cover 27 on the open upper end of the container 24.

Obviously the form of the invention, as illustrated in Figures 1, 2 and 3, may be constructed in various shapes without affecting the means for latching the closure to the container and may be formed of other material of a more permanent character such as wood or metal.

Various modifications and changes are contemplated and may obviously be resorted to, as only preferred embodiments of the invention have been disclosed.

I claim as my invention:

In a closure for paper containers, an annular walled paper container having an outwardly rolled open end, said outwardly rolled portion being turned inwardly upon itself a plurality of times to form a substantially triangular shaped rim having an outwardly and downwardly flared upper side, disposed at an oblique angle to the longitudinal axis of the container, and a substantially flat under side disposed at an acute angle to the upper side and substantially at a right angle to the side wall of the container to form a shoulder; a cover having an annular downwardly and outwardly flared annular flange for engaging the upper surface of said rim, and said flange having an intumed annular bead at its lower end for engaging beneath the outer portion of the shoulder for releasably retaining the cover on the open top of the container.

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