March 10, 1942. W. L. R. MENGES 2,275,542

CONTAINER

Filed Oct. 20, 1938

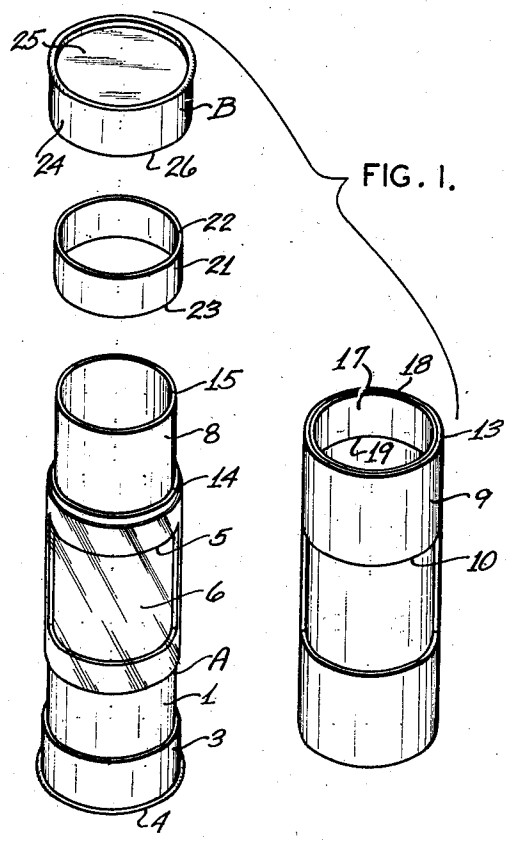


FIG. 1.

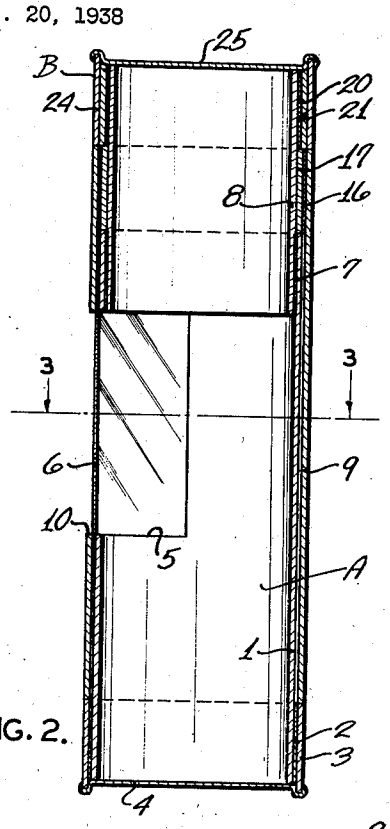


FIG. 2.

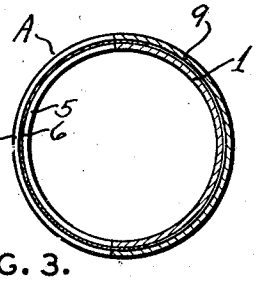


FIG. 3.

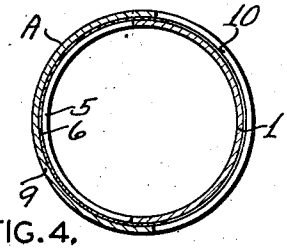


FIG. 4.

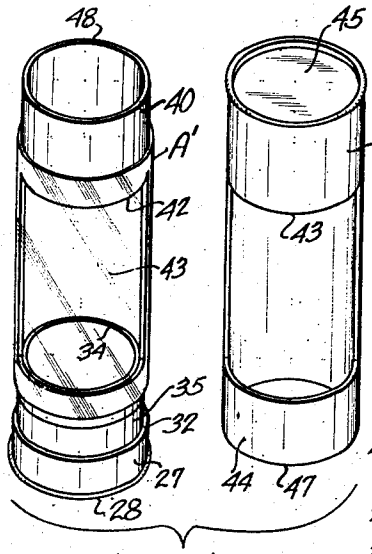


FIG. 5.

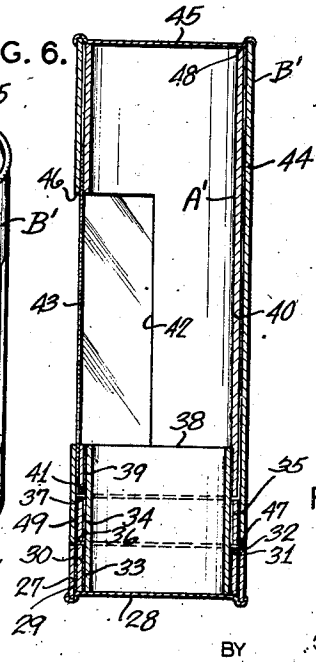


FIG. 6.

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CONTAINER

William L. R. Menges, St. Louis, Mo.

Application October 20, 1938, Serial No. 235,985

7 Claims. (Cl. 206—44)

This invention relates to a certain new and useful improvement in containers.

My invention has for its primary object the provision of a container uniquely constructed for selective employment for shipping or display purposes. My invention has for a further object the provision of a container of the type stated which is exceptionally rugged and durable in construction, which is simple and convenient in use and operation, which is economical in cost of manufacture, and which is highly efficient in the performance of its intended functions.

And with the above and other objects in view, my invention resides in the novel features of form, construction, arrangement, and combination of parts presently described and pointed out in the claims.

In the accompanying drawing—

Figure 1 is a perspective assembling view of the component parts of a container of my invention;

Figure 2 is an enlarged vertical sectional view of the container;

Figures 3 and 4 are horizontal sectional views of the container, taken approximately along the line 3—3, Figure 2, showing the container with its co-operable parts in display and shipping conditions, respectively;

Figure 5 is a perspective assembling view of the component parts of a modified form of container of my invention; and

Figure 6 is a vertical sectional view of the modified form of container of Figure 5.

Referring now in more detail and by reference characters to the drawing, which illustrates practical embodiments of my invention, the container A comprises a tubular main shell 1 preferably constructed of rolled cardboard or other suitable material, fixed upon which at its lower extremity, as by a layer of adhesive 2, is an encircling bearing-ring 3 also formed of cardboard or the like.

At its lower margin, the ring 3 is in registration with the lower margin of the main shell 1, and crimped or otherwise upon, and extending transversely across, the lower registering margins of the shell 1 and ring 3, is a shell end or bottom wall in the form of a preferably metallic disk 4. Intermediate its ends, the shell 1 is further provided with a preferably straight-sided segmental aperture or window 5, which is of a size preferably to extend around the body of the shell 1 through an arc slightly smaller than 180°, and adhesively or otherwise suitably fixed to the shell 1 at and around the margin of, and covering the window 5, is a sheet or section 6 of "Cellophane" or other suitable flexible transparent material.

Fixed, as by means of an annular layer of suitable adhesive 7, upon the inner peripheral face of the main shell 1 with its lower margin in approximate registration with the upper margin of the window or aperture 5 and projecting outwardly beyond the upper margin of the main shell 1 for a substantial distance, as best seen in Figures 1 and 2 for purposes presently more fully appearing, is a shell extension or so-called body-continuation 8.

Snugly fitting for relative rotatory movement upon the main shell 1 and bearing at its one or lower end upon the upper margin of the fixed body-ring 3 is an open-ended tubular member 9 provided intermediate its ends with a window or aperture, as at 10, conforming in size and shape with the main shell window 5.

The tube 9 is of such length as to extend longitudinally not only over the main shell 1 from the bearing-ring 3, but also partially over the shell-continuation 8, as shown, the tube 9 having its upper margin 13 positioned intermediate the upper margin 14 of the main shell 1 and the upper margin 15 of the shell-member 8.

Fixed, as by means of a suitable layer of adhesive 16, upon the inner peripheral face of the cover-tube 9, is a narrow cardboard ring 17 of such width that its upper margin 18 is in registration with the upper margin 13 of the tube 9 and its lower margin 19 is in endwise abutting engagement with the upper margin 14 of the main shell 1, as best seen in Figure 1 and for purposes presently more fully appearing.

Fixed, as by means of a suitable layer of adhesive 20, upon the outer peripheral face of the shell continuation 8, is a tube-retaining ring collar 21 of such width that its upper margin 22 is in registration with the upper margin 15 of the member 8 and its lower margin 23 is in endwise abutting engagement with the upper margin 18 of the ring 17.

Adapted for snugly fitting over the outer peripheral face of the ring or collar 21, is a shell-closure in the form of a cap B, which preferably includes a cardboard annulus 24, crimped or otherwise secured to which is an end-wall forming disk 25, preferably metallic, the annulus 24 being of such width that, when the cap B is in shell closure-position upon the shell-continuation 8, the under face of the end wall 25 will be in flatwise abutting engagement with the upper margin 22 of the collar 21 and also the upper margin 15 of the shell-member 8 and

the lower margin 26 of the annulus 24 will be in endwise abutting engagement with the upper margin 13 of the tube 9, all as best seen in Figure 2 and for purposes presently more fully appearing.

In its final or finished form, the container A may be filled with any suitable merchandise and the cap B suitably placed in closure-forming position over the open end thereof. It will, of course, be apparent in this connection that the cap B may be glued or otherwise sealed in place if desired, a substantially air-tight and moisture-proof package being thereby provided. It will also be evident that the cover-tube 9 may be freely rotated about the main shell 1, but will nevertheless be held against longitudinal translation between the bearing ring 3 and the retaining ring 21. Thus, when the container A is filled and the cap B sealed thereon, the package may be prepared for shipment by rotating the cover-tube 9 until the aperture 10 thereof is out of registration with the window 5 of the main shell 1 and is entirely disposed over the solid or rear portion of the main shell 1, as best seen in Figure 4.

When the container A reaches the retail merchant, the cover-tube 9 is reversely rotated until the aperture 10 thereof is in marginal registration with the window 5 of the main shell 1, thereby displaying the container contents, as best seen in Figure 3. Of course, the cap B may, if desired, be forcibly removed for effecting removal of the container contents.

With reference now to Figures 5 and 6, A' designates a modified form of the combined display and shipping container. In this form, the container includes an annular cardboard ring 27 having a disk-shaped metallic bottom or end member 28 crimped or otherwise secured transversely across and around its lower margin. Fixed as by means of a layer of adhesive 29 to the inner peripheral face of the ring 27, is a collar 30 having its upper margin 31 in registration with the upper margin 32 of the outer ring 27.

Similarly secured, as by a layer of adhesive 33, to the inner peripheral face of the collar 30, is a suitably longitudinally elongated cardboard supporting ring 34 provided around its outer peripheral face with a relatively narrow freely rotatable cardboard ring 35 having its lower margin 36 in endwise abutting engagement with the upper margin 31 of the collar 30 and having its upper margin 37 positioned substantially below the upper margin 33 of the supporting ring 34.

Fixed, as by means of a suitable layer of adhesive 39, upon the outer face of the supporting-ring 34, is an open-ended tubular container shell 40 having its lower margin 41 in endwise abutting engagement with the upper margin 37 of the sealing-ring 35 and being provided intermediate its ends with a preferably straight-sided segmental aperture or window 42 extending around the container shell 40 through an arc preferably somewhat smaller than 180°, and being covered with a sheet of suitable transparent material 43 marginally glued or otherwise secured to the outer face of the container shell 40 adjacent the margins of the aperture 42.

It may be further stated in this connection that the outside diametrical dimension of the container shell 40 and the sealing ring 35 are preferably the same, all as best seen in Figures 5 and 6 and for purposes presently more fully appearing.

Snugly fitting for rotation, rotatable over and about the outer peripheral face of the container shell 40, is a cover member B' comprising an open-ended cylindrical cardboard tube 44 having a disk-shaped preferably metallic cap member 45 crimped or otherwise secured upon, and extending across, its upper margin, and further being provided intermediate its ends with a preferably straight-sided segmental aperture 46 of the same size and shape as the container shell aperture 42, the cover member B' being of such length that its lower margin 47 will lie in endwise abutting engagement with the upper margin 32 of the outer ring 27 and the under face of the cap member 45 will lie in flatwise abutting engagement across the upper margin 48 of the container shell 40.

The aperture 46 of the cover member B' is furthermore so positioned therein as to lie in registration with the aperture 42 of the container shell 40 when the cover tube B' is properly seated upon the container A' and rotated for suitable alignment therewith.

In use, the container A' may be suitably filled with merchandise and the cover tube B' seated thereupon and securely held in place by means of a layer of suitable adhesive 49 between the outer face of the sealing ring 35 and the contiguous inner face of the cover tube B', as best seen in Figure 6. When thus sealed, the cover tube B' is held against longitudinal translation or removal, but is nevertheless freely rotatable axially about the container shell 40 and may thus be rotated to bring the aperture 46 thereof either into or out of display registration with the aperture 42 of the container shell 40 substantially in the manner and for the purposes previously described.

It should be understood that changes and modifications in the form, construction, arrangement, and combination of the several parts of the container may be made and substituted for those herein shown and described without departing from the nature and principle of my invention.

Having thus described my invention, what I claim and desire to secure by Letters Patent is:

1. A container comprising an open-topped cylindrical inner shell having a transverse bottom wall and a segmental window in the side wall thereof, an outer open-bottomed tubular shell having a transverse top wall and being rotatably mounted on and around the outer peripheral face of the inner shell and having an aperture therein for optional registration with the window, means on the inner shell for holding the outer shell against longitudinal translation, said outer shell being detachably secured to said means for providing when detached a closure cap removably disposed across the open end of the inner shell.

2. A container comprising an open-topped cylindrical bottom shell having a transverse bottom wall provided with a diametrally reduced axially projecting concentric inner wall having a segmental aperture intermediate its ends, an outer tubular shell rotatably mounted on and around the outer peripheral face of the inner wall in endwise abutment against the peripheral margin of the bottom shell and having an aperture therein for selective registration with the segmental aperture, and means on the bottom shell for holding the outer tubular shell against

longitudinal translation along the bottom shell.

3. A container comprising an open-topped cylindrical bottom shell having a transverse bottom wall, an open-ended tube secured upon and extending upwardly from the bottom shell, a tubular inner wall secured at an end on the outer face of, and extending upwardly from, the tube with its lower margin in upwardly spaced parallel relation to the upper margin of the bottom shell in the provision of an annular channel, said inner wall having a segmental aperture in the side wall thereof, a ring rotatably mounted in the channel, an outer shell rotatably mounted on and around the outer peripheral face of the inner wall, having an aperture therein for optional registration with the segmental aperture and being secured to the ring whereby to be held against longitudinal translation along the bottom shell, and closure means disposed over the open end of said outer shell.

4. A container comprising an open-ended tubular shell having a transparent window therein, a ring rotatably mounted on and secured against longitudinal translation along the tubular shell, and a tubular end-closure member open at one end and fitted telescopically and rotatably around the tubular shell, said closure member being secured to the ring and having an aperture therein for optional registration with the window.

5. A container comprising an open-topped cylindrical bottom shell having a transverse bottom wall provided with a diametrically reduced axially projecting concentric inner wall having a segmental aperture intermediate its ends, an annular groove formed in the outer face of the inner wall between the upper margin of the bottom wall and the aperture, an outer tubular shell rotatably mounted on and around the outer peripheral face of the inner wall in endwise abutment against the peripheral margin of the bottom shell and having an aperture therein for selective registration with the window, and a ring rotatably mounted in, and held against axial shifting movement by, said groove for securement to the outer shell.

6. A container comprising an open-topped cylindrical bottom shell having a transverse bottom wall, a tubular insert secured upon the inner face of and projecting axially upwardly from the bottom shell, a side wall forming tube fitted upon and secured to the outer face of the insert member with its lower margin in upwardly spaced parallel relation to the upper margin of the bottom shell forming a shallow annular groove therebetween, a ring member rotatably disposed within the groove and having an axial width substantially equal to the width of the groove so as to be held against axial translation in the groove, said ring being substantially flush on its outer face with the outer face of the side wall forming tube, and a tubular end cap slidably fitted over the side wall forming member and projecting at its lower peripheral margin over the outer face of the ring for securement thereto in the provision of a cover element capable of axial rotation with respect to the side wall member.

7. A container comprising an open-topped cylindrical bottom shell having a transverse bottom wall, a tubular insert secured upon the inner face of and projecting axially upwardly from the bottom shell, a side wall forming tube fitted upon and secured to the outer face of the insert member with its lower margin in upwardly spaced parallel relation to the upper margin of the bottom shell forming a shallow annular groove therebetween, said tube being provided above the upper margin of the insert member with a segmental window-forming aperture, a ring member rotatably disposed within the groove and having an axial width substantially equal to the width of the groove so as to be held against axial translation in the groove, said ring being substantially flush on its outer face with the outer face of the side wall forming tube, and a tubular end cap having a segmental aperture for optional registration with the window-forming aperture of the tube, said end cap being slidably fitted over the side wall forming member and projecting at its lower peripheral margin over the outer face of the ring for securement thereto in the provision of a cover element capable of axial rotation with respect to the side wall member.

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