Sept. 19, 1939. J. D. BUCKINGHAM 2,173,227

CONTAINER

Filed June 10, 1937

Fig. 1.

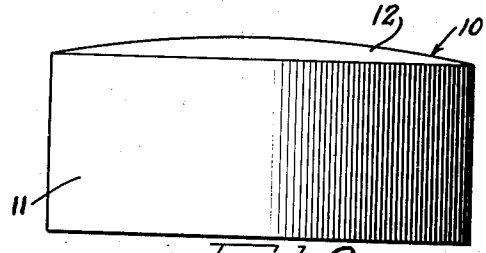


Fig. 2.

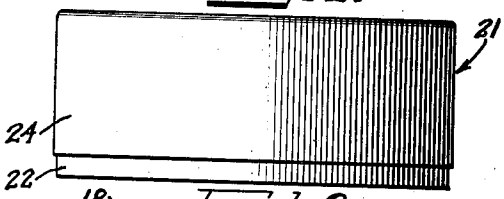


Fig. 3.



Fig. 5.

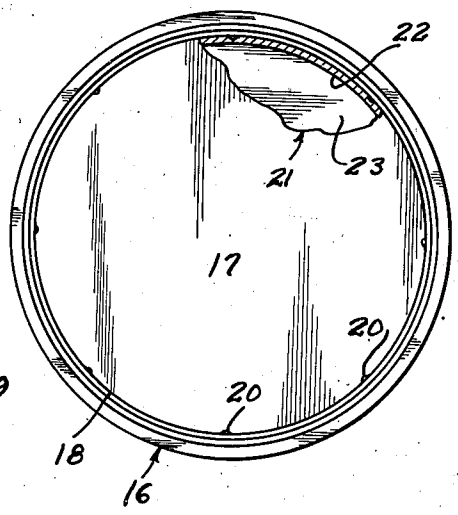


Fig. 4.

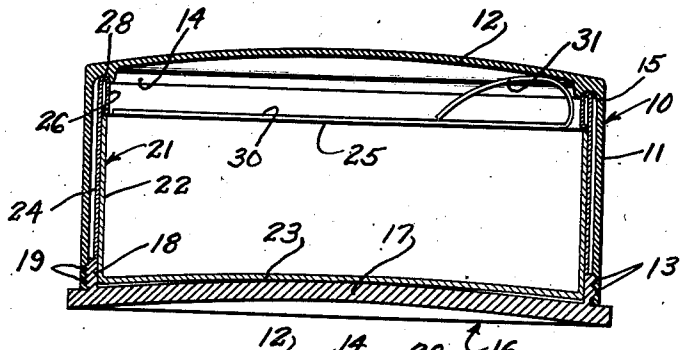


Fig. 6.

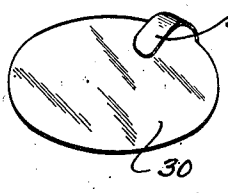
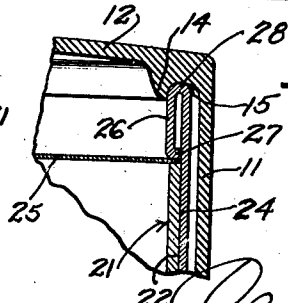


Fig. 7.



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2,173,227

CONTAINER

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Application June 10, 1937, Serial No. 147,509

6 Claims. (Cl. 206—1)

This invention relates to a container or package and more specifically relates to a multi-part package including a base portion and a cover portion adapted to receive and secure therebetween a cardboard container or refill.

It is an object of this invention to provide a multi-part package with the exterior parts composed of wearable material, such as plastics, and the interior parts composed of cheaper materials that can be replaced when its contents are used.

A further object of this invention is to provide a base and a cover for receiving therein a cheaper refill package.

A further object of this invention is to provide improvements in refill package constructions wherein the refill package is firmly held in locked and sealed position within the exterior package.

A further object of this invention is to provide plastic boxes adapted to receive cardboard packages therein.

A further object of this invention is to provide improvements in refill package constructions.

Other and further objects of this invention will become apparent to those skilled in the art form the following detailed description of the annexed sheet of drawings which discloses the preferred embodiment of the invention.

On the drawing:

Figure 1 is a side elevational view of the cover or lid of a package according to this invention.

Figure 2 is a side elevational view of the package or refill for the container of this invention.

Figure 3 is a side elevational view of the base of the container.

Figure 4 is a vertical cross sectional view taken through the center of a container according to this invention showing the constituent parts thereof in assembled relation.

Figure 5 is a plan view of the container base shown in Figure 3 and illustrating in cross section a fragment of the refill shown in Figure 2.

Figure 6 is an isometric view of a tray member adapted to be disposed on top of the material in the refill package.

Figure 7 is a fragmentary enlarged vertical cross sectional view illustrating the manner in which the refill package is sealed and held in position in the lid or cover member of the container.

As shown on the drawing:

In Figures 1 and 4, the reference numeral 10 designates generally the cover or lid of a container according to this invention. The cover 10 comprises a cylindrical side wall portion 11 and a convex top wall portion 12.

The bottom of the cylindrical side wall 11 is interiorly threaded as at 13.

An annular flange 14 projects from the top wall 12 in spaced relation from the side wall 11 to define an annular groove 15 around the top of the cover on the inside thereof.

As best shown in Figures 3, 4, and 5, the reference numeral 16 designates generally the base portion of the container. The base 16 comprises a convex disc 17 having an annular flange 18 projecting upwardly therefrom in spaced relation from the outer periphery thereof.

The outer face of the flange 18 has threads 19 thereon adapted to be threaded into the threads 13 cut in the cover member 10.

The inner face of the flange 18, as best shown in Figure 5, has vertical ribs or beads 20 in spaced relation therearound for a purpose to be more fully hereinafter described.

The cover 10 and the base 16 are formed of a rigid, wearable material such as, for example, a molded plastic.

As best shown in Figures 2, 4, and 7, the reference numeral 21 designates generally a refill package for mounting in the base 16 and cover 10.

The refill package 21 is preferably made of cardboard or other cheap material and comprises a cylindrical side wall portion 22 and a base 23.

The side wall 22 and base 23 can be formed from a single disc of cardboard by a stamping operation.

A cardboard or paper sleeve 24 is disposed around and secured to the cylindrical wall 22 of the package 21 in spaced relation above the base 23 thereof. The sleeve 24 projects above the top of the cylindrical wall 22.

The ingredients packaged in the refill package 21 can be sealed therein by a Cellophane or other tearable material disc 25 glued on top of the cylindrical wall 22. The sleeve 24 is then crimped over the sealing disc 25 as at 26 and is preferably turned in as at 27 against itself to form a reinforced top edge 28 for the refill package 21.

As best shown in Figures 4 and 5, the refill package 21 is seated on the base 16 with the flat base 23 thereof disposed on the convex disc 17 of the base and with the bottom portion of the cylindrical wall 22 thereof disposed in abutting relation against the inside face of the flange 18 of the base. As best shown in Figure 5, the ribs 20 on the flange 18 press into the side wall 22 to hold the refill package against rotation relative to the base.

The cover 10 is then disposed over the refill package 21 and screwed onto the base. As best

shown in Figures 4 and 7, the reinforced top edge 28 of the refill package 21 is thus seated in the groove 15 formed in the cover 10. A screwing down of the cover on the base moves the convex surface of the base 16 against the flat base 23 of the refill to force the refill into a tighter engagement with the flange 18 of the base.

The groove 15 in the cover and the reinforced top edge 28 of the refill effect a seal preventing loss of material out of the container, even after the seal 25 is broken.

When the refill package 21 is utilized to package materials such as face powder, a flexible cover disc 30 (best shown in Figures 4 and 6) can be disposed in the refill on top of the face powder. This cover disc 30 is preferably made of Celluloid or the like flexible material and has a tab portion 31 bent upwardly and inwardly from the outer periphery thereof to form a handle for removing the disc from the package.

As best shown in Figure 4, this handle 31 is flexible and is integral with the disc 30, so that as the cover 10 is threaded onto the base 16 the handle 31 is compressed downwardly on top of the package 21. A powder puff (not shown) or other material such as advertising matter can be disposed under the inner edge of the handle 31 on top of the disc 30.

The disc 30 can thus be readily removed from the package 21 by grasping the handle 31 thereof, and since it is flexible, it can be used as a scoop to remove powder from the package 21 for the filling of compacts and the like.

From the above descriptions, it should be understood that this invention provides an outer container for receiving a refill package therein, with the outer package being so formed as to seal the contents of the refill package after each opening of the container. The closing of the container automatically holds the refill in fixed position therein and seals the contents of the refill.

I claim as follows:

1. A container comprising, in assembled relation, a base having an upstanding exteriorly threaded flange, a box removably seated on said base in abutting relation to said flange, and a cover disposed over the box having a side wall threaded on the flange, said cover having a groove in the top thereof for receiving the top edge of the box to seal the contents of the package.

2. A container comprising, in assembled relation, a rigid disc having an upstanding annular flange spaced from the outer periphery thereof, an open top cylindrical cardboard box removably seated on said disc in abutting relation to said flange, and a rigid cover disposed over said box having an annular groove therein receiving the top edge of the box, said cover having a side wall threaded on said flange of the base, whereby a screwing down of the cover on the base compresses the box therebetween and seals the open top of the box.

3. A container comprising a base having an upstanding annular flange spaced from the outer periphery thereof, a box seated on said base having a cylindrical side wall abutting the inner face of said flange on the base, a sleeve secured to the side wall of the box above the annular flange of the base, said sleeve extending above the top of the box and being bent around itself to define a double walled top edge for the box, a cover disposed over said box having an annular groove therein receiving said double walled edge of the box, and a side wall on said cover threaded on the outer face of said flange whereby a screwing down of the cover on the base compresses the box therebetween and seals the open top thereof in the groove of the cover.

4. A container comprising a molded plastic convex disc having an upstanding annular flange spaced from the periphery thereof, beads formed on the inner face of the flange, a screw thread on the outer face of the flange, a cardboard box seated on said disc having a side wall thereof abutting the inner face of the flange and held against rotation by said beads, a sleeve disposed around the side wall of the box and secured thereto above the flange of the base, said sleeve extending above the top of the box and being crimped inwardly on itself to provide a double walled top edge for the box, a molded plastic cover disposed over said box having an annular groove therein for receiving the double walled top edge of the box, and a side wall on said cover threaded on said flange of the base whereby a screwing down of the cover on the base seals the box therebetween and the convexity of the base causes a compression of the bottom of the box for preventing rocking of the box relative to the base.

5. A powder box comprising, in assembled relation, a molded plastic disc having an upstanding annular flange, screw threads on the exterior face of said annular flange, beads on the inner face of said flange, a cylindrical cardboard box seated on said base in abutting relation to the inner face of the flange, said box held against rotation relative to said base by said beads on the flange, a sleeve disposed around the side wall of the box above the flange on the base, said sleeve extending above the open top of the box, a sealing disc glued to the open top of the box, said portion of the sleeve extending above the top of the box being crimped inwardly on said sealing disc to secure the disc on the box and to provide a double walled top edge for the box, a flexible tray member having a tab portion disposed thereabove, a cover disposed over said box having an annular groove therein for receiving the double walled edge of the sleeve and a side wall on said cover threaded on said flange of the base whereby a screwing down of the cover on the base will compress the tab member of the tray to hold the tray in fixed relation in the box and the annular groove in the cover seals the open top of the box against loss of powder.

6. A container cover comprising a rigid member having a top wall, a cylindrical side wall extending from the top wall, and an annular flange extending from the inner face of the top wall in spaced relation from the side wall to define with the side wall an annular groove adapted to receive the top edge of a cylindrical box.

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