Sept. 25, 1951 A. MARCELLUS 2,568,814

POWDER BOX COMPACT

Filed July 24, 1947

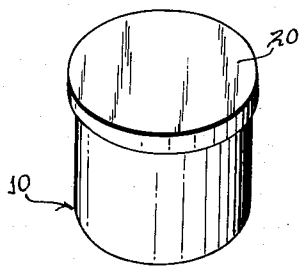


FIG. 1.

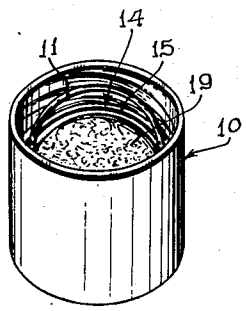


FIG. 2.



FIG. 9.

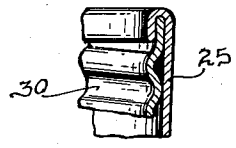


FIG. 5.

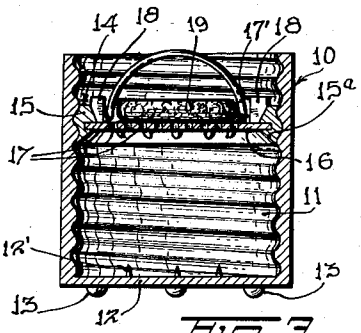


FIG. 3.

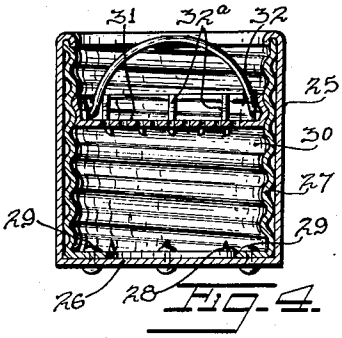


FIG. 4.

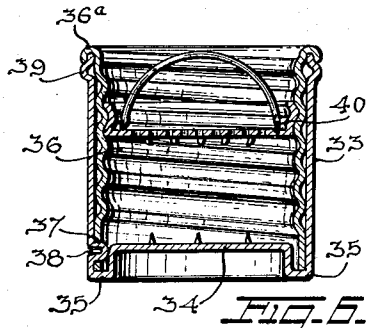


FIG. 6.

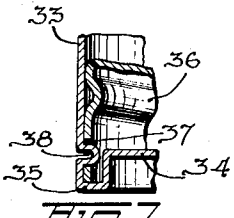


FIG. 7.

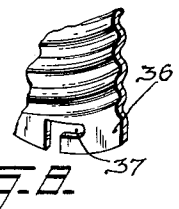


FIG. 8.

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Patented Sept. 25, 1951 2,568,814

UNITED STATES PATENT OFFICE

2,568,814

POWDER BOX COMPACT

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Application July 24, 1947, Serial No. 763,367

2 Claims. (Cl. 132—82)

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This invention relates to a self feeding package for cosmetic or face powder, and particularly to a service container in which a supply of cosmetic powder is packaged for sale direct to the customer, which is constructed to enable the customer or user to progressively discharge the powder supply through a perforated plate, upon which a powder puff is normally supported within the container, and which combines to prevent accidental spilling of the powder.

One of the objects of the invention is to provide an original package container with an internal screw thread and a follower adapted to be progressively lowered to take up space made vacant by the progressive consumption of the powder contents of the package, which may be forced through distributor openings formed in the follower.

Another object of the invention is to provide a container of this type with an inserted screw threaded shell or wall, and to provide means for securing this inserted screw threaded shell in place in the container.

A still further object of the invention is to provide a follower with means for turning the same and means for scraping the wall of the container or its lining, so that no powder residue will be left, and a full consumption of the contents may be obtained.

For further comprehension of the invention, and of the objects and advantages thereof, reference will be had to the following description and accompanying drawing, and to the appended claims in which the various novel features of the invention are more particularly set forth.

In the accompanying drawing forming a material part of this disclosure:

Fig. 1 is a perspective view of the package with its cover in closed position.

Fig. 2 is a similar view showing the cover removed and exposing the powder puff to view.

Fig. 3 is a vertical sectional view, showing the cover removed and the powder puff in position on the dished follower.

Fig. 4 is a view similar to Fig. 3, but illustrating a modification of the invention.

Fig. 5 is an enlarged detailed view of a portion of Fig. 4 showing the curled upper edge of the container wall.

Fig. 6 is another view similar to Fig. 3, but illustrating a still further modification of the present invention.

Fig. 7 is an enlarged detail sectional view, showing a detachable bayonet joint connection between the removable lining and the container.

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Fig. 8 is a fragmentary perspective view showing the bayonet slot in the removable lining.

Fig. 9 is a fragmentary bottom perspective view of a modified form of the sifter disc.

The compact, according to the form of the invention shown in Figs. 1 to 3, includes a container 10 which may be of any external shape or form, but in any case is provided with a cylindrical inner wall surface, which is formed with a screw thread 11, which extends from the upper end thereof to the base or bottom 12, and is integral with the material of which the container 10 is formed. This material may be metal, cast or drawn, or plastic. The base or bottom 12 is formed or provided with supporting feet 13.

In the cylindrical container space a circular follower 14 is threaded into the screw thread 11, and for this purpose is formed with an external screw thread to match and engage the screw thread 11. This follower may be constructed with an external ring 15 of plastic or other material, and a sifter disc 16, of plastic or sheet metal, having numerous fine sifter openings 17 therein.

The outer ring 15 is formed with a circular knife edge 15a, adapted to have a scraping effect upon cosmetic powder which has settled on the screw threaded wall, and the sifter disc 16 is located between the lower edge of the external ring 15 and the upper edge thereof, so that a cup or pocket 17 is formed above the sifter disc 16. The ring 15 is formed with integral and internal ribs 18, located on opposite sides thereof, so that the follower may be easily turned in the screw threaded container wall by means of a handle, knob, or similar attachment.

A powder puff 19 is adapted to have a snug fit in the follower ring 15 and to seat on the sifter disc 16, so that it will collect all powder which has been discharged through the sifter disc. A cover 20 may be detachably fitted on the container wall, and has a form or shape corresponding to the external form or shape of the container wall.

As the cosmetic powder is progressively consumed, the user turns the follower 14 and thereby causes it to progressively descend and maintain reasonable spaced relation to the supply of cosmetic powder. As the follower is thus threaded downwardly into the container, its wall is wiped of deposited powder and the balance of the supply is prevented from free spilling from the container, as the sifter disc permits only of a limited discharge of the powder, and should the contain-

er be dropped only an insignificant amount of powder would be lost.

Figs. 4 and 5 show a modified form of the invention, wherein a container wall **25** is constructed of thin sheet metal or plastic material, and is provided with a bottom **26**. A lining shell **27**, of sheet metal, is positioned in the container wall **25** and is formed at its inner end with an internal flange **28**, which is secured to the bottom **26** by means of rivets or fasteners **29**, which provide external feet for the container wall **25**. The shell **27** is formed with a rolled screw thread **30**, which is engaged by a sheet metal or plastic dished follower **31**, the marginal wall **32** of which is formed with internal ribs **32a** to aid in turning the same. The upper edge of the container wall **25** is curled over and upon the upper edge of the shell **27**, to conceal the lining shell edge.

Figs. 6, 7 and 8 show another modified form of the invention, wherein a sheet metal container wall **33** is formed with a bottom **34**, which is raised above the lower edge of the wall **33** by means of the circular grooved connecting portion **35**. The lining shell **36** is inserted in the wall **33**, and is provided on its lower edge portion with one or more bayonet coupling slots or grooves **37**, which are forced into the groove of the connecting portion **35**, and establish coupling engagement with the indentation or projection **38**, formed on the wall **33**. Coupling is made by turning the lining shell **36** in the wall **33**, and uncoupling by reverse turning. The upper edge **36a** of the lining shell **36** is curled outwardly over the upper edge of the container wall **33**, and is obscured by an external bead **39** formed on the wall **33**. The lining shell **36** is formed with a rolled screw thread **39**, which is engaged by a follower **40**.

It is to be understood that the sifter disc **16** may have rounded grater-like teeth or any shape convenient, to fulfill its intended requirement.

While I have illustrated and described the preferred embodiments of my invention, it is to be understood that I do not limit myself to the precise constructions herein disclosed and the right is reserved to all changes and modifications coming within the scope of the invention as defined in the appended claims.

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

1. Releasable retaining means in a package for cosmetic powder mounting a tubular lining shell within an outer tubular container, comprising a bottom wall closing the bottom end of the outer container and having a raised central portion surrounded by a channel, the lining shell having its bottom edge disposed in said channel so that powder can be placed within the shell and on the raised central portion of said shell, means releasably mounting the bottom edge of the lining shell in position in said channel, said shell having its top edge portion bent over the top edge of said tubular container and extended slightly downward along the outer face of said container, and an outwardly extended bead formed on said container at the free edge of the top edge portion of said shell.

2. Releasable retaining means in a package for cosmetic powder mounting a tubular lining shell within an outer tubular container, comprising a bottom wall closing the bottom end of the outer container and having a raised central portion surrounded by a channel, the lining shell having its bottom edge disposed in said channel so that powder can be placed within the shell and on the raised central portion of said shell, said lining shell having its top edge portions bent outward and downward over the top edges of the outer container, and projections on one wall of said container and extended into said channel, the shell having bayonet slots extended in from its bottom edge and engaged with said projections releasably securing the bottom edge of the shell in position in the channel.

ADA MARCELLUS.

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