

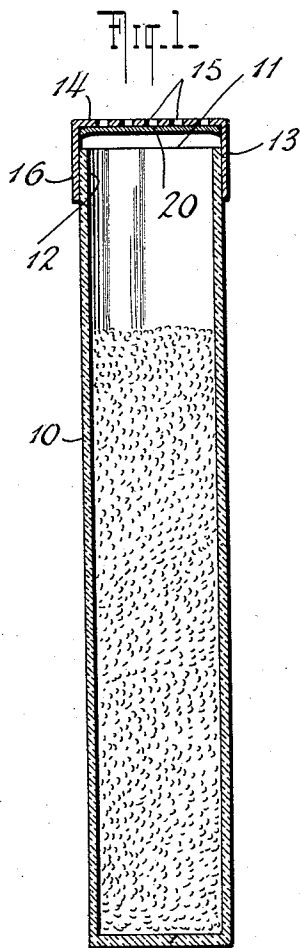
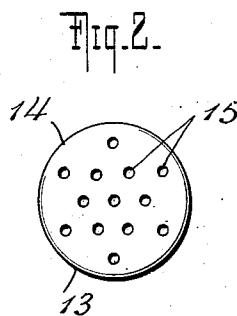
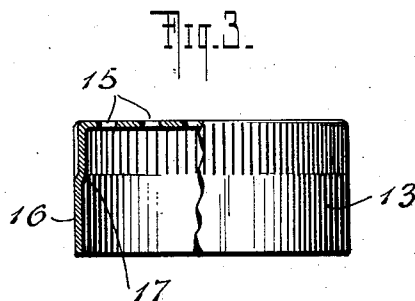
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DISPENSING PACKAGE

Filed Feb. 10, 1927



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UNITED STATES PATENT OFFICE

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DISPENSING PACKAGE

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This invention relates to dispensing packages, and aims to provide an easily manufactured non-refillable dispensing package for granular, pulverized, and similar materials.

5 A dispensing package embodying the invention is provided with a permanently attached sifter top, within which is held a flexible closure which effectively prevents the material contained in the package from passing out through the openings in the sifter top during storage or transportation. The closure is so arranged that it may easily be displaced by means of an instrument through an opening in the sifter top to permit the material in the package to be sifted out through the sifter top, while at the same time the package is incapable of being refilled.

20 An illustrative embodiment of the invention is shown in the accompanying drawings, in which:

Fig. 1 is a vertical central section of a dispensing package;

Fig. 2 is a top view of the package; and

25 Fig. 3 is an enlarged side view of the sifter top partly in section.

The dispensing package illustrated includes a container 10 having an opening 11 at its top. The container 10 is shown as of cylindrical shape but may be of any desired form. For convenience, the part 12 of the container located immediately below the opening 11 will be referred to as its neck. The container is provided with a sifter cap 13 which is permanently attached to its neck 12. The cap has a top 14 provided with holes 15, and a side flange 16 to fit over the neck of the container and which, in this instance, is cylindrical. This side flange is provided, at some distance from the top 14, with an internal shoulder 17. This shoulder may be an interrupted shoulder formed by knurling the upper portion of the side flange, as shown. The lower portion of the flange 16 below the shoulder 17 fits tightly around the neck 12 of the container, and is permanently attached thereto by cementing or otherwise. The shoulder 17, by engaging the top edge of the neck, limits the extent to which the neck can enter the cap and thus insures a space between

the upper edge of the neck and the lower surface of the top 14 of the cap. A closure disk 20, which is most desirably flexible and to some extent resilient, is placed in the cap before the cap is applied to the container. This closure disk may consist of a circular piece of cardboard or the like, whose diameter, when the cap has a very narrow shoulder 17 as shown, may be substantially equal to the internal diameter of the lower portion of the cap flange 16, so that when the closure disk is forced into the cap until it lies against the inner surface of the top 14, the peripheral edge of the closure is compressed as it is forced past the shoulder 17, and the tight compression fit thus secured retains the closure positioned within the cap and against the lower surface of the top 14, as shown in Fig. 1. When the shoulder 17 is formed by knurling the upper portion of the flange 16, as shown, the internal ridges formed by the knurling aid in holding the closure disk securely in position against the top 14 during the storage or transportation of the package.

75 The container 10 is filled with pulverized, granular, or other material capable of passing through the openings 15, before the cap 13 is applied to the neck of the container. The closure 20 prevents this material from passing out through the openings 15. When the contents of the container is to be used, a piece of wire, nail, or similar instrument, and preferably one not having a very sharp point, is inserted through one of the holes 15 to bend and depress the closure 20. The openings in the cap will thus be unsealed, and a free flow of the contents of the container through the openings in the cap will be permitted.

90 It should be noted that the thickness of the closure 20 is less than the space provided between the under surface of the top 14 of the cap and the upper edge of the neck 12 of the container, so that ready displacement of the closure in the manner described is not interfered with by the closure being clamped between the edges of the neck and the top of the cap.

What I claim is:

1. A dispensing package, comprising a cylindrical container, a sifter cap permanently secured on the neck of the container, and a flexible closure disk within the cap displaceably positioned against the under surface of the perforated top of the cap, and held in such position by compressive engagement of its periphery with the upper portion of the flange of the cap, the diameter of the disk being slightly greater than the internal diameter of the container, and the end of the neck of the container being spaced away from the top of the cap sufficiently to avoid the closure disk being clamped between the edge of the neck and the top of the cap and to permit displacement of the closure disk by an instrument inserted through a perforation in the top of the cap.
2. A dispensing package comprising a container, a sifter cap having a flange which surrounds the neck of the container and has a knurled upper portion located above the upper edge of the neck of the container, and a cardboard closure lying against the under surface of the top of the cap and having compressed indentations in its periphery engaging the internal ribs of the knurled portion of the flange of the cap.
3. A dispensing package, comprising a container, a sifter cap permanently secured about the neck of the container, and a flexible closure disk within the cap displaceably positioned against the under surface of the perforated top of the cap, the diameter of the disk being sufficiently greater than the internal diameter of the neck of the container so that when the disk is displaced it will not fall back into position to again close the perforations in the cap, the end of the neck of the container being spaced away from the top of the cap sufficiently to avoid the closure disk being clamped between the edges of the neck and the top of the cap and to permit displacement of the closure disk by an instrument inserted through a perforation in the top of the cap.

In testimony whereof I have hereunto set my hand.

JUSTIN GERSTLE.