

Jan. 7, 1958

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2,818,997

DOMED TOP DISPENSING CAN

Filed Dec. 16, 1954

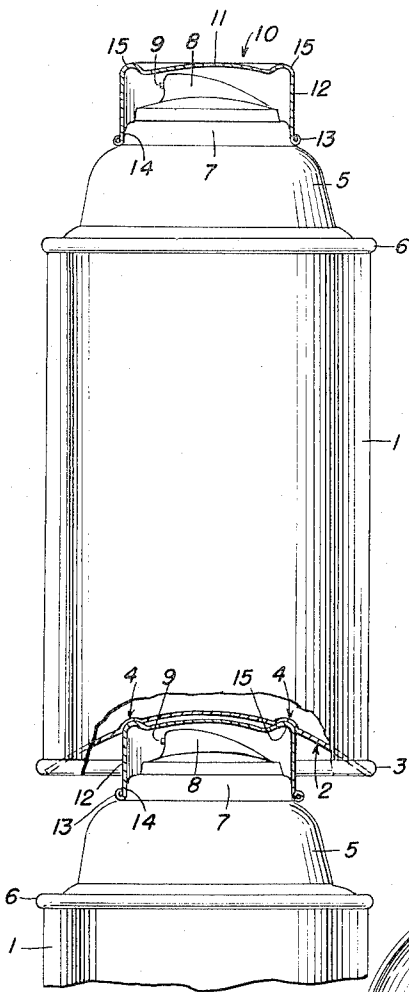


FIG. 1

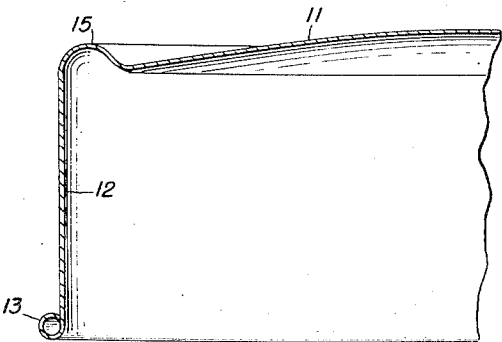


FIG. 2

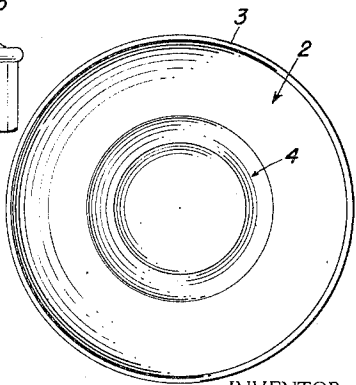


FIG. 3

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DOMED TOP DISPENSING CAN

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Application December 16, 1954, Serial No. 475,725

1 Claim. (Cl. 222—143)

The invention relates to new and useful improvements in a container for dispensing fluid under pressure and more particularly to a protective cap for covering the dispensing unit for preventing accidental operation of the same.

An object of the invention is to provide a protective cap for a dispensing container which not only prevents accidental operation of a dispensing unit but which cap is so constructed as to aid in stacking one container on another.

A further object of the invention is to provide a dispensing container having an inwardly dome shaped bottom end and an annular groove disposed concentric to the center of said bottom end with a protective cap frictionally held on the container, which cap has a peripheral rib dimensioned so as to fit in the groove in the bottom end of a container stacked thereon.

In the drawings which show by way of illustration one embodiment of the invention:

Figure 1 is a view partly in section and partly in side elevation of a dispensing container embodying the improvements and showing one container stacked on another.

Figure 2 is an enlarged sectional view of the protective cap for the dispensing container.

Figure 3 is a view of the bottom end of the dispensing container.

The dispensing container to which the invention is applied is of the ordinary construction and includes a body 1 to which an inwardly dome shaped bottom end 2 is secured by a double seam 3. This bottom end of the container is provided with an annular groove 4 which is concentric to the center of the bottom end of the container. The groove is preferably disposed midway between the center and the seam 3 joining the bottom end to the container. At the upper end of the container is an outwardly dome-shaped top end 5 which is secured to the body 1 by the usual double seam indicated at 6. Disposed at the upper end of this dome-shaped top end is a dispensing unit 7 of any well known construction. The dispensing of the liquid which is retained in the container under pressure is controlled by a fingerpiece 8, also of the usual construction. When the fingerpiece is depressed or moved endwise it causes a valve to be opened so that the fluid in the container is dispensed through an opening 9 in the fingerpiece. The dispensing container referred to is commonly used for dispensing aerosol liquids under pressure. The essential feature of this type of container is the manually actuated fingerpiece which opens a passage for the dispensing of the fluid contained in the con-

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tainer. When the fingerpiece is released it is common to provide means whereby the fingerpiece will be returned to its initial position so as to cut off further dispensing of the liquid.

In order to prevent accidental operation of the fingerpiece applicant has provided a protective cap 10 which has a top end 11 and a depending skirt 12 rolled into a closed bead 13 at the lower edge thereof. The dome-shaped top end of the dispensing container is shaped so as to provide a substantially vertical friction wall 14. The depending skirt is so dimensioned relative to this friction wall that when the cap is placed on the dome-shaped top end of the container it will engage this friction wall and be held firmly in place on the dispensing container. The top end of the cap when attached to the dispensing container is spaced away from the fingerpiece 8 so that any accidental contact with the cap will not in any way be transmitted to the fingerpiece. As long as the cap is permanently secured to the container there is no possible chance of the fingerpiece being accidentally depressed so as to open the dispensing passage.

The protective cap is provided with a peripheral rib 15 which is dimensioned and positioned so that when another container is stacked on the cap said rib 15 will fit snugly in the groove 4. This will support the containers when stacked one on another.

The cap when attached to the container will be firmly held in place by the beaded lower end of the skirt engaging the friction seat upon the dome-shaped top end. This cap performs the double function of protecting the fingerpiece of the dispensing device from being accidentally opened and it will also provide a means whereby one container can be stacked on another and firmly held in the stacked relation.

It is obvious that minor changes in the details of construction may be made without departing from the spirit of invention as set forth in the appended claim.

I claim:

A dispensing container comprising a body portion having an inwardly dome-shaped bottom end, said end being provided with a downwardly opening continuous circular groove concentric to the center of said bottom, an outwardly dome-shaped top end terminating in a manually controllable dispensing device, said top end having an upstanding friction seat disposed below and outwardly from said manually controllable dispensing device and a stacking and dispensing device shielding cap having a depending skirt dimensioned so as to frictionally engage said seat and project upwardly about the dispensing device on said top end, said cap having a raised continuous circular rib at the periphery of its upper end extremity, said rib being dimensioned and positioned so as to be engageable in the groove in the bottom end of a container stacked thereon, said upper end extremity of said cap being disposed above and out of contact with said dispensing device.

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