Nov. 26, 1963 H. B. FINKENZELLER 3,112,048

DECORATIVE RING AND FLEXIBLE INSERT FOR SPRAY CONTAINER

Filed June 8, 1961

Fig. 1

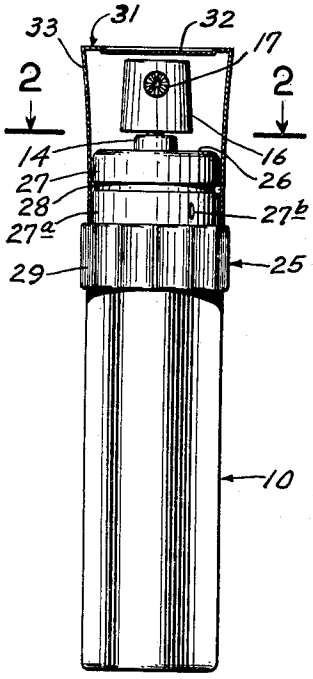


Fig. 3

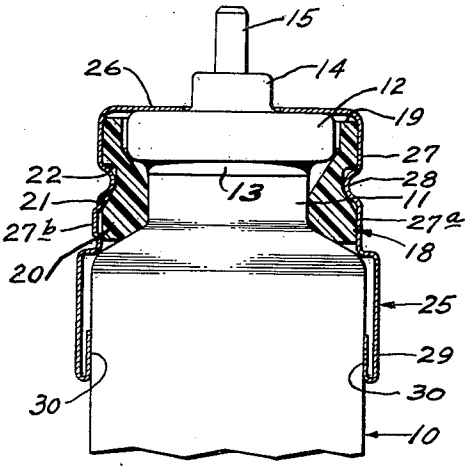


Fig. 4

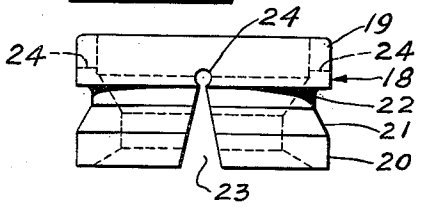


Fig. 2

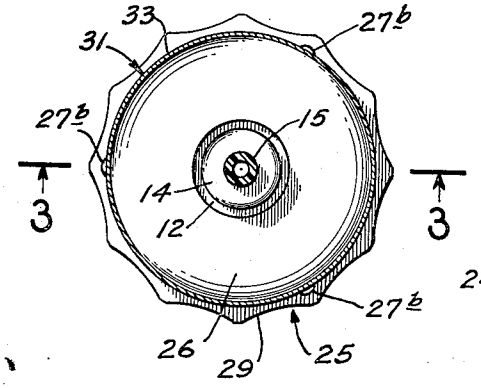
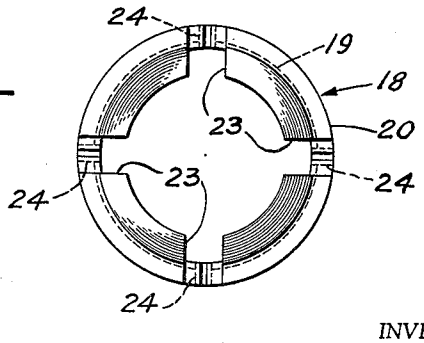


Fig. 5



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DECORATIVE RING AND FLEXIBLE INSERT FOR SPRAY CONTAINER

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This invention relates to containers, and more particularly to a decorative ring having a flexible insert for permanent attachment to a spray container for dispensing liquids under pressure.

One object of the present invention is to provide a device of the above nature in which the flexible insert will absorb variations in the size of the container when covered with a decorative ring.

A further object is to provide a device of the above nature which will be simple in construction, inexpensive to manufacture, easy to install and manipulate, compact, ornamental in appearance, and very efficient and durable in use.

With these and other objects in view, there has been illustrated on the accompanying drawing one form in which the invention may conveniently be embodied in practice.

In the drawing,

FIG. 1 represents a side view in elevation and partially in section, of a perfume dispensing container having the improved flexible insert and decorative ring assembled thereon, and covered by the usual protective dome cap.

FIG. 2 is a horizontal cross-sectional view on a larger scale, taken along the line 2—2 of FIG. 1, looking downwardly.

FIG. 3 is a vertical cross-sectional view, taken along the line 3—3 of FIG. 2.

FIG. 4 is a side view of the flexible insert, shown by itself.

FIG. 5 is a bottom view of the same.

Referring now to the drawing, in which like reference numerals denote corresponding parts throughout the several views, the numeral **10** indicates a spray container which may be in the form of a glass bottle, having a flanged reduced upper neck **11**, surrounding which is a valve mounting cup **12**, having a lower rim **13** crimped into the neck **11**. The cup **12** also has an upstanding upper neck **14** which is apertured to surround a depressible tubular valve stem **15**. Mounted upon the valve stem **15** is a hollow substantially cylindrical valve actuating button **16** having a spray nozzle **17** on one side thereof (FIG. 1).

In order to permit a decorative metallic ring **25** to be tightly and securely fitted upon the glass bottle or other container **10** having a variable tolerance in its size, provision is made of a flexible insert **18** of compressible plastic or other suitable material comprising a cylindrical top ring **19**, a cylindrical interiorly beveled bottom ring **20**, integral with which is a conical section **21** communicating with a curved exterior annular groove **22** joined to the ring **19**.

The flexible insert **18** is also provided with a plurality of V-notches **23** (four in this instance), each of which is open at the bottom and terminates at its upper end in a circular fillet **24**, as clearly shown in FIG. 4 of the drawing.

The flexible insert **18** is embraced by the metallic decorative ring or neck piece **25**, which has a flat horizontal apertured top section **26**, below which is a cylindrical top rim **27**, and an intermediate cylindrical rim **27*a*** having a plurality of spaced outstanding nibs **27*b*** (three in this instance). Between the rims **27** and **27*a***,

provision is made of an inwardly formed annular bead **28** which is adapted to fit within the curved annular groove **22** of the flexible insert **18**.

The bottom of the decorative ring **25** is provided with an enlarged fluted collar **29**, the shape of which is most clearly shown in FIG. 2. The collar **29** is provided with an upturned resilient stiffening interior rim **30**, as clearly shown in FIG. 3 of the drawing.

In order to complete the assembly of the device, provision is made of a protective dome shell **31** (FIG. 1) having a recessed flat top central section **32**. The dome shell **31** has a lower flared substantially cylindrical section **33** which is adapted to detachably fit frictionally upon the nibs **27*b*** of the decorative ring **25**.

Operation

In use, the flexible insert **18** may be assembled by pushing it downwardly over the upper end of the valve mounting cup **12** on the top of the spray container **10**, as far as it will go. The decorative ring **25** will then by forced downwardly over the flexible insert **18**, and the bead **28** will be forced into the groove **22** of the insert **18** to lock said ring **25** in tight permanent position on said container. Liquid perfume or other spray may then be dispensed from the pressurized container laterally through the nozzle **17** by pressing downwardly upon the valve actuating button **16**.

One advantage of the present invention is that the decorative metallic ring **25** will be permanently secured upon the container **10** irrespective of variations in diameter of the latter due to tolerances in the manufacture thereof.

While there has been disclosed in this specification one form in which the invention may be embodied, it is to be understood that this form is shown for the purpose of illustration only, and that the invention is not limited to this specific disclosure, but may be modified and embodied in various other equivalent forms without departing from its spirit. In short, the invention includes all the modifications and embodiments coming within the scope of the following claim.

Having thus fully described the invention, what is claimed as new and for which it is desired to secure Letters Patent is:

In combination, a pressurized spray container having a flanged reduced upper neck, a tubular insert of compressible flexible material surrounding said neck to absorb tolerances in the size of said container, said insert having an exterior annular arcuate groove intermediate its upper and lower ends, and a decorative ring permanently fitted about the top of said container and said insert, said decorative ring having an intermediate bead extending into said groove to lock said decorative ring securely in position, said insert having a plurality of V-shaped open bottom notches to increase the flexibility of said insert and facilitate its assembly upon said container, each of said notches having a circular fillet at its upper end.

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