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DEVICE FOR THE SECURANCE OF AN ARTICLE SUCH AS A SAFETY RAZOR TO AN AEROSOL CONTAINER

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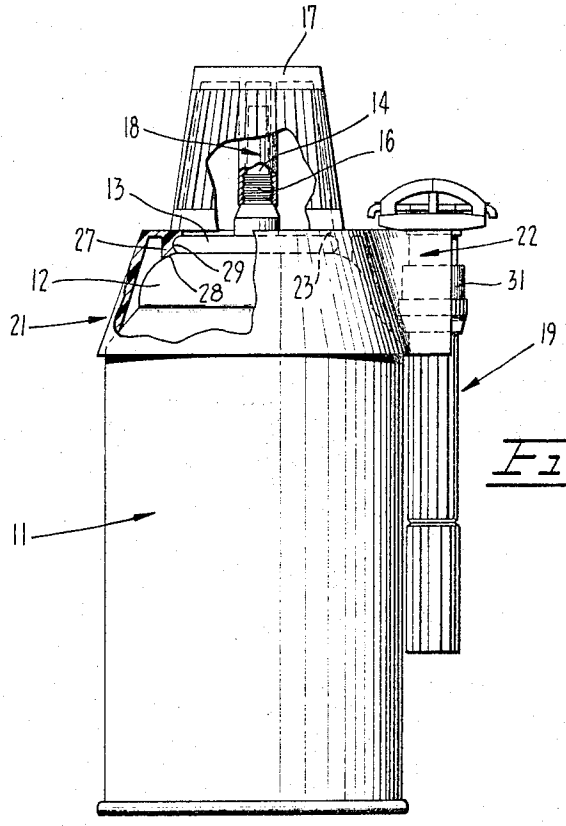

Fig. 1

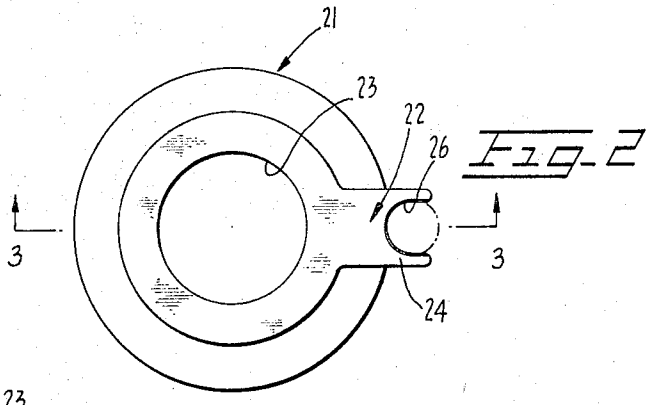

Fig. 2

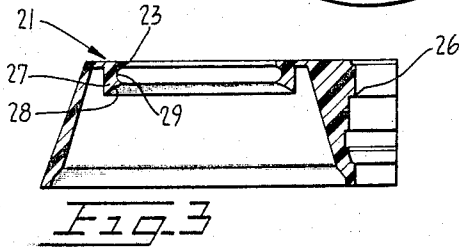

Fig. 3

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DEVICE FOR THE SECURANCE OF AN ARTICLE SUCH AS A SAFETY RAZOR TO AN AEROSOL CONTAINER

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The present invention relates generally to composite packages or kits of the type wherein several articles may be secured together as a unit for purposes of storage or the like and yet be separated to facilitate their use, and is more particularly directed towards a device for adapting a conventional aerosol container of for example shaving cream for the removable securance of a safety razor or other article thereto.

Various separate articles are frequently combined in the form of a composite package or kit in order to promote the saleability of the articles as a "package deal" as well as to subsequently afford the purchaser a convenient means of storing the articles as a composite unit when not in individual use. It may be desirable, for example, for a manufacturer of shaving commodities to provide an aerosol container of shaving cream and a safety razor as a composite unit. Whatever the contents of the aerosol container and the particular article to be incorporaated therewith in providing a composite unit, it is desirable that existing aerosol containers be adapted for the removable securance of the other article thereto, rather than a modified form of container be designed specifically for this purpose.

It is therefore an object of the present invention to provide an adapter which is arranged to fit upon an existing aerosol container and to releasably support another article, such as a safety razor, to thereby provide a composite package or unit.

Another object of the invention is the provision of a simple cheap support collar of molded plastic, or the like, which is complementary to upper portions of a conventional aerosol can so as to be readily mountable thereon and which includes a yoke arranged for the releasable securance of another article thereto.

It is a further object of the invention to provide an adapter collar of the class described which in no way interferes with the normal operation and use of the aerosol container upon which it is mounted.

A still further and more specific object of the invention is the provision of an adapter collar of the class described by which existing safety razors and aerosol cans of shaving cream may be incorporated as a composite sales package.

The invention possesses other objects and features of advantage, some of which, with the foregoing, will be set forth in the following description of the preferred form of the invention which is illustrated in the drawing accompanying and forming part of the specification. It is to be understood, however, that variations in the showing made by the said drawing and description may be adopted within the scope of the invention as set forth in the claims.

FIGURE 1 is an elevation view of an aerosol container embodying an adapter in accordance with the invention which in the illustrated case facilitates the releasable securance of a safety razor to the container.

FIGURE 2 is a plan view of the adapter.

FIGURE 3 is a sectional view taken at line 3—3 of FIGURE 2.

Referring to FIGURE 1 of the drawing in greater detail, there is shown a conventional aerosol container **11**, in the present case of the type popularly employed to dispense shaving cream. The container is of a cylindrical configuration with a substantially bell shaped dome **12** at its uper end. An annular bead **13** is provided coaxially of the end surface of the dome and a tubular dispensing spout **14** projects centrally therefrom. The spout is flexible and so arranged that upon flexing the spout, the shaving cream or other contents is dispensed from the container. The spout is also threaded, as indicated at **16**, to facilitate securance of a cap **17** thereto. In this regard, the cap is provided with a centrally depending internally threaded bushing **18** which is adapted to threadably engage the threaded portion of the spout and thereby secure the cap upon the container in protective encompassing relation to the spout to prevent unintentional flexing thereof.

It may be desirable to incorporate an article such as a conventional safety razor **19** with the conventional aerosol container **11** of shaving cream, or the like, in order to provide a composite sales package which may also serve as a composite unit for facilitating convenient storage of the constituent articles when not in use. The present invention facilitates the foregoing by providing an adapter collar **21** which is securable to the dome **12** of the container **11**, and which includes securing means **22** for releasably engaging the razor **19**, or other article. Thus, with the collar secured to the container, the razor may be releasably secured thereto to provide a composite unit.

Basically, the collar **21** is of cylindrical configuration and preferably tapered for the sake of appearance and to minimize the material requirements thereof. The collar is hollow and open at its lower end so as to receive the upper end portion of an aerosol container upon which the collar is to be installed. The upper end of the collar is provided with a central circular opening **23** to permit traversal by the dispensing spout of the container. The collar is fabricated from hard plastic, or equivalent material, and the upper end portion of the collar interior is suitably dimensioned and configured to provide a snap fit when the collar is mounted upon the upper end of the container. The securing means **22** is then provided as a substantially U-shaped yoke **24** which projects radially from the collar periphery and defines a notch **26** adapted to receive the razor **19** or other article which is to be composited with the container. The wall of the notch is formed complementary to a portion of the article to be received therein, and the notch is dimensioned to provide a force fit with this portion of the article when same is engaged in the notch. In the case of the razor **19** the notch walls are preferably complementary to the upper portion of the shank or handle thereof so as to releasably engage the same. The yoke has some degree of resiliency which effects releasable retention of the razor or other article.

Considering now the collar **21** in greater detail as to the illustrated embodiment, an annular rib **27** preferably depends from the interior of the upper end wall thereof in circumscribing relation to the opening **23**. The lower surface **28** of the rib is conformed to the portion of the dome **12** of container **11** which lies immediately outwardly adjacent the bead **13**. The inner peripheral wall of the rib is formed with an annular groove **29** having a substantially semi-circular cross section. The groove **29** is complementary to the bead **13** and arranged to engage same with a snap fit. Thus, the collar **21** may be placed upon the upper end of the container and urged downwardly to engage the bead in the groove and firmly secure the collar to the container.

In the illustrated embodiment of the adapter collar which is arranged to support the razor **19**, the notch **26** of yoke **24** is formed complementary to the upper portion of the shank or handle of the razor, as previously mentioned. In the instant case the razor is of the type having an adjustable blade inclination which may be set by rotation of a calibrated micrometer dial in the form

of a rotary cylindrical collar **31** provided adjacent the upper end of the shank. The notch **26** is accordingly substantially semicircular in plan view and the notch wall is formed with stepped portions, as shown in FIGURE 3, which are complementary to the upper end of the razor shank including the collar **31** mounted thereon. The razor may thus be disposed with the collar **31** and upper end portion of the shank engaging the notch **26** in close fitting relation thereto, the razor being thus releasably retained by virtue of the resiliency of the relatively thin portions of the web **24** on opposite sides of the notch.

What is claimed is:

1. An adapter for compositing a safety razor and aerosol container having a bell shaped dome at one end with an annular bead coaxially of the end surface thereof, comprising a plastic tapered cylindrical collar having an open lower end for receiving said dome and an upper end with a central opening circumscribed by a depending annular rib, said rib having an inner peripheral groove complementary to said bead and dimensioned to engage same with a snap fit, said rib having a lower surface conformed to a portion of said dome immediately outwardly adjacent said bead, said collar having a substantially U-shaped yoke projecting radially from the periphery thereof and defining an outwardly facing notch with a substantially semi-circular cross-section, said notch having a wall complementary to an upper portion of the shank of said razor and dimensioned to engage same in a close fit.

2. A composite package comprising a substantially cylindrical aerosol container having a generally bell-

shaped dome at its upper end, said container having an annular bead coaxially of the end surface of said dome and flexible dispensing spout projecting centrally therefrom, said spout having an externally threaded portion, a tapered cylindrical collar of hard plastic, said collar having an open lower end receiving said dome and an upper end with a central circular opening traversed by said spout, said collar having an annular rib depending from its upper end, said rib having an inner peripheral groove complementary to said bead and engaging same in snap fitting relation, said collar having a substantially U-shaped yoke projecting radially from the periphery thereof and defining an outwardly facing notch with a substantially semi-circular cross-section, a safety razor having a shank with an upper portion releasably engaged in said notch, and a cap having a depending internally threaded bushing engaging said externally threaded portion of said spout and securing said cap thereto with the cap engaging said collar.

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