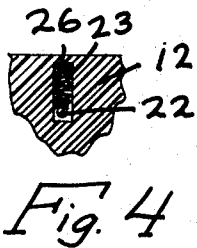
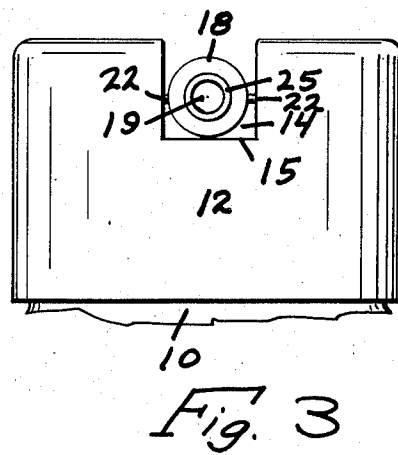
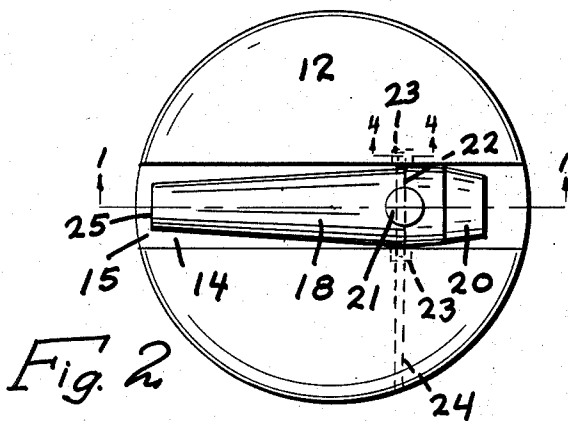
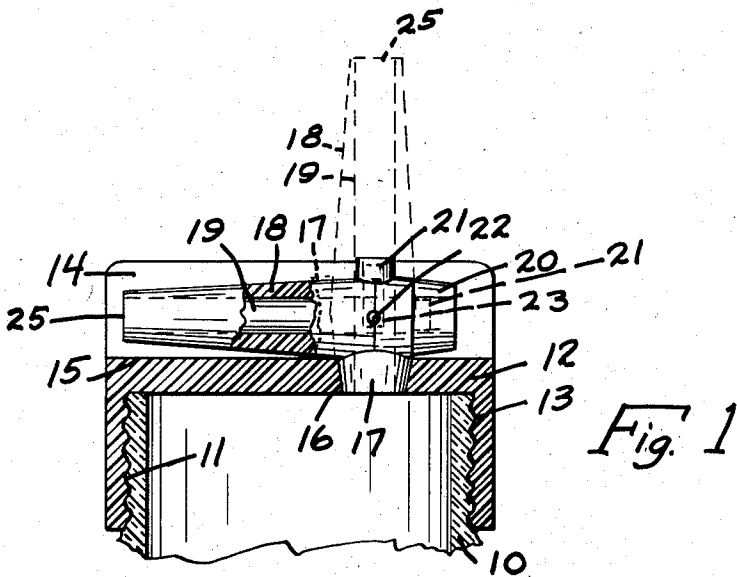


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W. H. PEARSON
LIQUID DISPENSER CAP
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2,828,055

LIQUID DISPENSER CAP

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1 Claim. (Cl. 222—513)

My invention relates to a liquid dispenser cap.

An object of my invention is to provide a dispenser cap which is compact in construction, and which can be selectively used for either closing up the container or for providing a spout for said container and using the same member for both purposes.

A further object of my invention is to provide a device which could be used on large containers or small containers as desired, which is very simple in operation and in which several of the units can be stored in a compact form.

With these and other objects in view, my invention consists in the construction, arrangement, and combination of the various parts of my device, whereby the objects contemplated are attained, as hereinafter more fully set forth pointed out in my claim, and illustrated in the accompanying drawings, in which:

Figure 1 is a sectional view taken substantially along the lines 1—1 of Figure 2 of the dispenser cap,

Figure 2 is a plan view of Figure 1,

Figure 3 is an end view of Figure 1, and

Figure 4 is a sectional view taken along the lines 4—4 of Figure 2 showing a slightly modified form.

My invention contemplates the provision of a dispenser cap which is relatively sanitary, which eliminates the need for special faucet arrangements, and which includes a variety of other advantages.

I have used the character 10 to indicate a bottle top or neck portion having the threads 11, it being understood, however, that my invention can be provided on any type of container. I have further used the character 12 to indicate the cap itself having suitable threads 13 for engaging the threads 11. The cap 12 can be made of any suitable plastic or other material, and includes the longitudinal trough 14 therein, including the bottom portion 15, and communicating with the bottom portion 15 is a tapered opening at 16 which communicates with the interior of the bottle 10.

Received in the opening 16 is a tapered plug member 17 which fits snugly therewith and which is integral with a spout member 18 having the opening 19 therein, which spout member includes a further tapered portion 20 at one end thereof.

Formed integrally with the spout member 18 is the small boss 21, and passing through the spout member 18 is a transverse pin 22, the ends of which are received within the vertically positioned slots 23, the slots 23 being of sufficient width to permit a rather free movement of the ends of the pins therein. For manufacturing purposes if desired, an additional opening 24 (see Figure 2) can be provided to allow assembly of the pin to the spout.

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The spout member 18 can be made of plastic or any other material, and is preferably made of a material having a slight resiliency so as to provide a good corking action wherever the tapered surfaces are applied.

The device is operated or used in the following manner. The solid lines, Figure 1, show the device when it is not in its pouring position, it being noted that the plug portion 17 seals up the bottle itself very securely, the boss 21 providing means whereby this closure portion can be pushed firmly downwardly.

To use the device for pouring, the forward end 25 of the spout 18 is pulled upwardly, the pin 22 thence traveling upwardly through the slots 23, the arrangement is then placed in a vertical position and then forced downwardly whereby the tapered portion 20 will be forced against the tapered opening 16 to provide a tight fit, whereby the contents of the bottle can then be poured through the opening 19, the dotted lines in Figure 1 showing the spout device in this position. It should be understood that the slots 23 are wide enough and long enough to permit relative movement of the spout portion to obtain the desired results, and it should be specifically noted that all of the parts are located beneath the top surface of the cap to render the device easier to pack with other containers.

Figure 4 illustrates a slight modification in which the pins 22 bear against a compression spring 26 located in the slots 23, this arrangement providing positive acting means whereby either tapered surface will fit into the opening 16 without the extra pressure, although either modification can be used.

It will be noted that the device of my invention is very simple in construction, provides the advantages mentioned in the objects of my invention, and includes further advantages readily apparent.

Some changes may be made in the construction and arrangement of the parts of my invention without departing from the real spirit and purpose of my invention, and it is my intention to cover by my claim any modified forms of structure or use of mechanical equivalents which may be reasonably included within their scope.

I claim as my invention:

A liquid dispenser cap comprising a cap body, said cap body including a longitudinal depressed groove therein, a spout member positioned in said groove, said spout member including an end tapered portion and a side tapered portion, said body having a tapered opening adapted to register with either of said tapered portions, an opening in said spout passing through said end tapered portion, a boss attached to said spout opposite to said side tapered portion, said body including a pair of slots, a pin attached to said spout and received in said slots, springs bearing against said pin.

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