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2,403,299

CONTAINER

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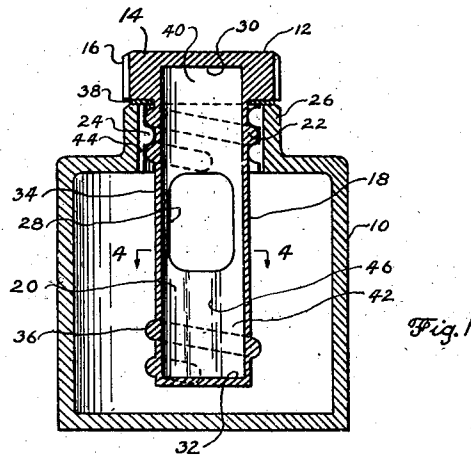


Fig. 1

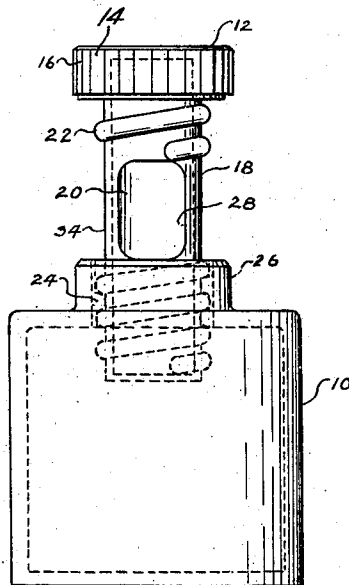


Fig. 2

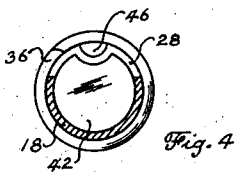


Fig. 4

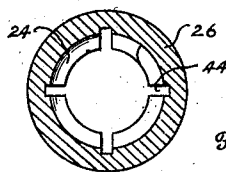


Fig. 3

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CONTAINER

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4 Claims. (Cl. 222-361)

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My invention relates to improvements in containers, used for the purpose of containing and dispensing liquids and for like purposes, and the objects of the invention are, first, to afford facilities whereby the contents of the container are made more easily accessible; second, to provide a container from which the contents may be withdrawn without separating the stopper from the container; third, to afford facilities whereby the contents of the container may be withdrawn in measured amounts; fourth, to provide a container from which the contents will not easily be spilled; and, fifth to provide a container that will minimize the possibility of the contents of the container becoming contaminated whilst being used.

I attain these objects by mechanism illustrated in the accompanying drawing in which—

Fig. 1 is a sectional elevation through the container with the stopper in closed position.

Fig. 2 is a side elevational view showing the stopper in raised position.

Fig. 3 is a sectional view through the neck of the container.

Fig. 4 is a sectional view through the tube of the stopper taken from the line 4-4 Fig. 1.

Similar numerals refer to similar parts throughout the several views.

The numeral 10 indicates the body of the container, and the numeral 12 indicates the stopper.

The stopper comprises a cap 14 with serrations 16 on its periphery.

The cap is provided with a downwardly extending tube 18 forming a chamber 20, the chamber being closed at both ends. The upper exterior portion of the tube adjacent to the cap is provided with a screw thread 22, which screws into the screw threads 24 provided in the interior of the neck 26 of the body 10.

An opening 28 through the side of the tube provides access to the chamber 20. The opening 28 is located approximately midway between the top 30 and bottom 32 of the chamber, the portion of the chamber above the opening having sufficient capacity to fill the portion of the chamber below the opening. The side 34 of the tube below the threads 22 is circular and makes a sliding fit inside the threads 24 of the container neck 26. The exterior portion of the tube is provided with a stop 36 on its lower end in order to prevent the stopper from being unintentionally withdrawn entirely from the container body. The stop 36 is formed into a thread so that it may pass through the threads 24 in the container neck.

After the container has been filled with liquid, the stopper is screwed into place, compressing the

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washer 38 between the cap and the container neck, thus sealing the contents in the container. The washer is secured to the stopper.

In using, the cap is screwed down tightly on the container body, the container is then inverted, keeping the opening 28 in upper position. With a full or partly filled container this action allows the liquid to enter the upper portion or well 40 of the chamber 20, then by turning the container back into normal position, the liquid runs down into the lower portion or well 42 of the chamber 20, the cap may then be unscrewed and the stopper raised to the position shown in Fig. 2 thus exposing the opening 28 above the container neck and allowing access to the well 42.

The stopper will remain stationary in raised position by friction if desired, or by connecting the threads 36 with the threads 24 it may be locked in raised position. The stopper may be removed from the container body by further turning the stopper upwardly and disconnecting the threads, the contents of the well may then be poured out through the opening 28.

During these operations and especially if the container is not held in exactly upright position, an amount of liquid may overflow from the well 42, and in order to prevent this liquid from flowing down the outside of the container, vertically disposed grooves 44 are provided down the inside of the neck of the container. These bypasses extend beyond the back of the threads 24 and are closed by the washer 38 when the cap is screwed down tightly upon the container body.

The tube 18 of the stopper is provided with an indent or recess 46, this recess extends downwardly from the bottom of the opening 28 to the bottom of the tube and provides a bypass allowing liquid from the wet tube to pass down into the body of the container whilst the stopper is being raised from the container body.

I claim:

1. In a container, a container body, a stopper comprising a cap portion and a tube portion, the tube portion extending downwardly from the cap and being closed at both ends providing a chamber in the stopper, the tube being provided with an opening through the side allowing access to the chamber and forming a liquid holding well below the opening when the tube and container body are in normal vertical position, means including threads on the stopper and threads on the upper portion of the container body for the purpose of supporting the stopper and providing a stopper that may seal the contents of the container in the container and that may be discon-

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nected from the container body and be raised and retained in elevated position with the opening in the tube exposed above the container body and then by further raising the stopper the portion of the tube from the opening downwardly may be entirely exposed above the container body so that liquid on the outside of the tube may drain back into the container body as the stopper is removed entirely from the body of the container.

2. In a container, a container body, a stopper comprising a cap portion and a tube portion, the tube portion extending downwardly from the cap and being closed at both ends providing a chamber in the stopper, the tube being provided with an opening through the side allowing access to the chamber and forming a liquid holding well below the opening when the tube and container body are in normal position, threads on the upper portion of the container body, threads on the upper portion of the tube below the cap, threads on the lower portion of the tube, a reduced non-threaded portion of the tube extending between the upper and lower threaded portions of the tube, thus providing a liquid holding stopper that seals the contents of the container in the container and that may be turned and unscrewed from the container body and rapidly raised vertically and then by further turning the stopper and connecting the lower threads on the tube with the threads

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on the container body the stopper may be secured in elevated position with the opening exposed above the container body then by further turning the stopper the portion of the tube from the opening downwardly may be entirely exposed so that the liquid on the outside of the tube may drain back into the container body as the stopper is being removed entirely from the container body.

5 3. In a container, a container body, a stopper, the stopper comprising a cap and a tube, the tube extending downwardly from the cap and forming a chamber, the chamber being closed at both ends, the tube having an opening through the side thereof providing a well in the lower end of the chamber, the tube having a recess in the outside of the tube extending downwardly between the opening and the lower end of the tube and forming a bypass to allow liquid to pass down through the inside of the neck of the container body whilst the stopper is in elevated position.

10 4. In a container, a container body, a stopper, the body having a neck, the neck being provided with screw threads, the stopper being provided with screw threads, an internal vertically disposed groove in the neck to allow liquid to pass down into the container body as the stopper is being raised.

ROWLAND O. PICKIN.