Aug. 23, 1955 E. E. MOUBAYED 2,715,981

ATTACHMENT FOR DISPENSING CONTAINERS

Filed July 22, 1954

FIG. 1

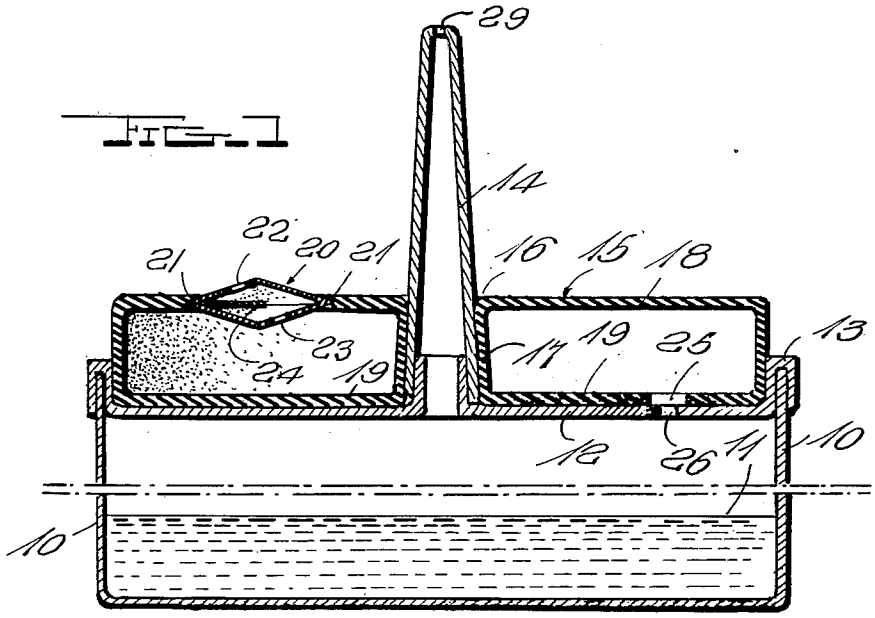


FIG. 2

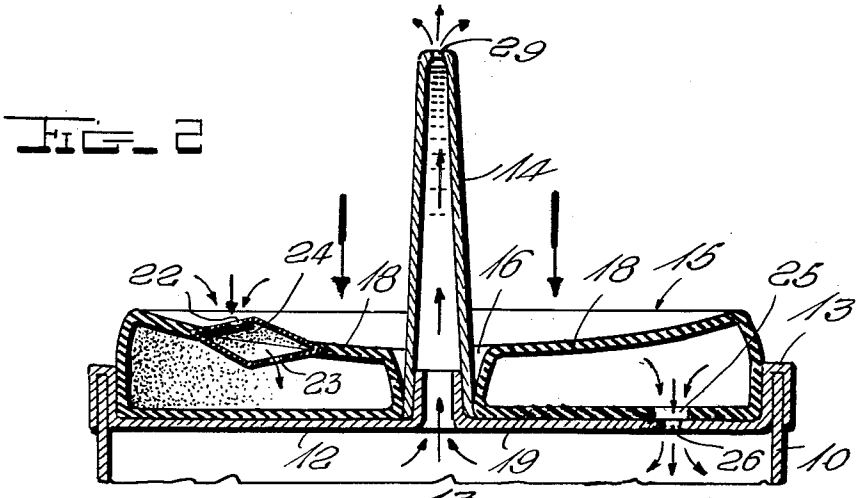


FIG. 3

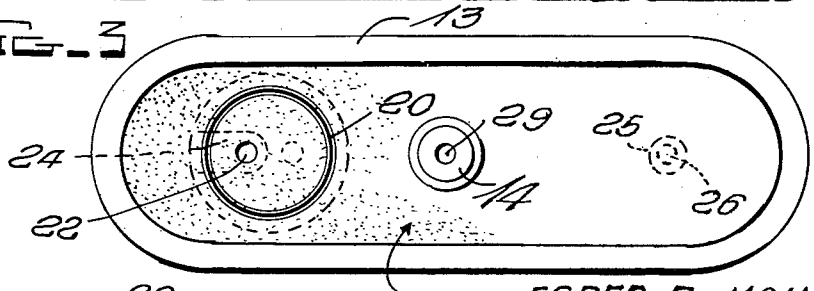
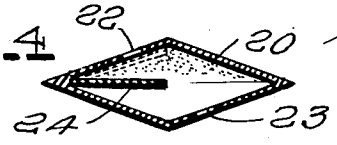


FIG. 4



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ATTACHMENT FOR DISPENSING CONTAINERS

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1 Claim. (Cl. 222—209)

The present invention relates to an attachment for dispensing containers and it consists in the combinations, constructions and arrangements of parts herein described and claimed.

Generally the present invention consists of an attachment for a dispensing container such as an oil can or the like and essentially comprises a hollow bulb adapted to fit closely upon the upper end of the container. The bulb is provided with a centrally located aperture for the passage therethrough for the spout with which such containers are conventionally provided. The container is provided with a weakened portion which may be easily punched out with a pin or the like and the bulb is provided with a one-way air outlet valve adapted to be positioned immediately over such weakened portion in the container. The bulb is also provided upon its upper side with a one-way air inlet valve and the device is such that, when positioned atop a container as aforesaid, when the same is squeezed by the fingers of the user it will increase the air pressure within the container to thus provide a force whereby the liquid contents of the container may be forced therefrom in a substantially continuous stream when so desired.

It is accordingly an object of the invention to provide a device of the character set forth which is simple in construction, inexpensive to manufacture and yet effective and efficient in use.

Another object of the invention is to provide a novel device having means for providing interior pressure to a dispensing container.

Another object is to provide, in a device of the character set forth, a novel arrangement of valves forming a part of the invention.

Other and further objects of the invention will become apparent from a reading of the following specification taken in conjunction with the drawing, in which:

Figure 1 is a fragmentary vertical sectional view of an embodiment of the invention illustrating the same in normal condition,

Figure 2 is a view similar to Figure 1 but showing the device as it appears when pressure is being supplied to a container forming a part of the invention,

Figure 3 is a plan view of the device illustrated in Figures 1 and 2, and

Figure 4 is an enlarged sectional view of a valve forming a part of the invention.

Referring more particularly to the drawing, there is shown therein a conventional dispensing can **10** containing a quantity of oil or other liquid as indicated at **11** and provided at its upper end with a permanent cover **12** which is affixed to the container **10** by means of a conventional upwardly extending bead **13**. The cover **12** is provided with a conventional dispensing spout **14** which is centrally disposed thereon.

The device comprising the present invention consists of a hollow body **15** formed of rubber or the like and having a contour adapted to fit snugly within the bead **13**. The body is centrally provided with a passageway **16** for the reception therethrough of the spout **14**, it being apparent that the passageway **16** is walled, as indicated at **17**, to seal the same from the interior of the body **15**.

The body **15** is provided with an upper wall **18** and a lower wall **19**.

A valve **20** is mounted in the upper wall **18** and is preferably used therein, as indicated at **21**, and is provided in its upper side with an inlet opening **22** and in its lower side with an outlet opening **23**. A flap valve **24** of rubber or the like is adapted to cover the opening **22** whenever interior pressure in the body **15** is greater than the atmospheric pressure without the body **15**. The lower wall **19** is provided with a relatively large opening **25** which is adapted to register with an opening **26** in the cover **12** and it is contemplated that the cover **12** will be provided with a weakened portion which may be readily punched out to provide the opening **26**.

In operation, it will be apparent that the dispensing container **10** will be sold in fully sealed condition and that when it is desired to make the same ready for use that the opening **26** will first be formed therein and the free end of the spout **14** perforated, as indicated at **29**, in conventional manner. The body **15** may then be mounted upon the cover **12** in such manner that the opening **25** registers with the opening **26** and it will be apparent that the body will remain in position due to frictional contact not only with the bead **13** but with the spout **14**. When it is desired to dispense a quantity of the liquid **11** through the opening **29** in the spout **14**, it is only necessary to press the upper wall **18** toward the lower wall **19** thereby causing the valve **24** to close the opening **22** therein due to increased pressure momentarily formed within the body **15**. This action will cause an increased pressure to be imparted to the interior of the container **10** due to air passing from the body **15** through the openings **25** and **26**. With the assembled device in inverted position so that the liquid **11** will fill the spout **14** by gravity, it will be apparent that such increased pressure within the container **10** will act to force the liquid therethrough in a stream for a period of appreciable duration. It will also be apparent that the flow of such stream of liquid may be made constant by repeatedly allowing the body **15** to reassume its normal position and again squeezing the same as rapidly as possible.

While but one form of the invention has been shown and described herein, it will be readily apparent to those skilled in the art that many minor modifications may be made without departing from the spirit of the invention or the scope of the appended claim.

What is claimed is:

A device of the character described comprising, in combination with a liquid dispensing container including a top having an opening therein, an upwardly extending beaded edge and an upwardly extending spout, the provision of a hollow body of flexible material adapted to fit on said top within said beaded edge and having a passageway for the reception therethrough of said spout and an opening adapted to register with the opening in said top, and an air inlet valve in said body.

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