

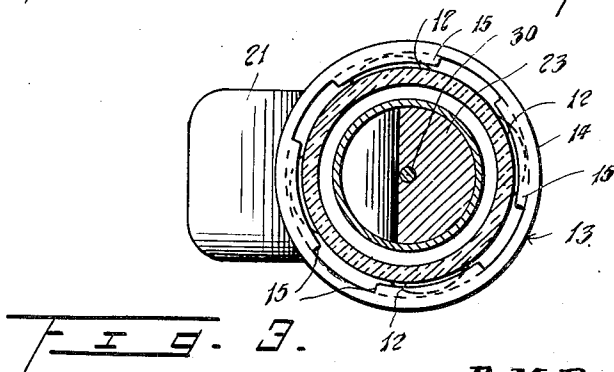
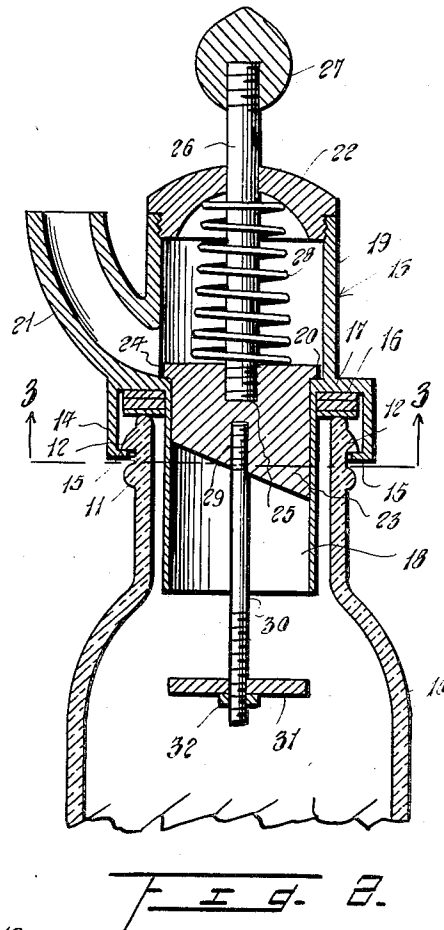
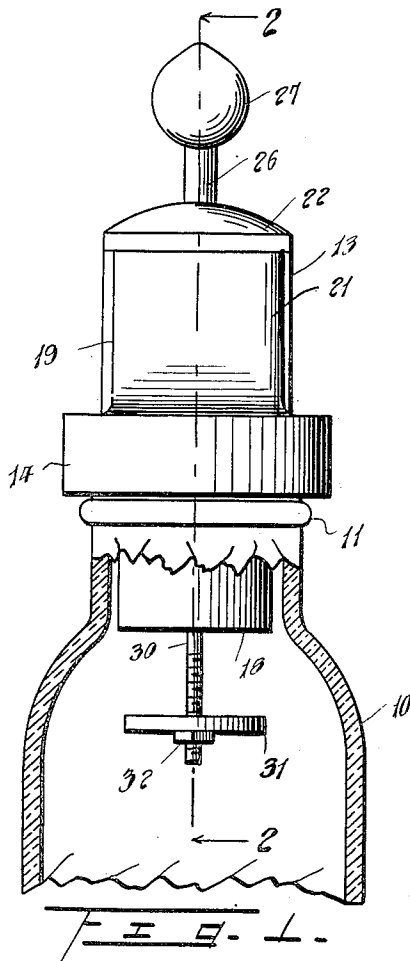
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D. M. BATES ET AL

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POWDER DISPENSER

Filed Aug. 16, 1929



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POWDER DISPENSER

Application filed August 16, 1929. Serial No. 386,269.

This invention relates to a dispensing means for powder.

It is primarily aimed to provide a novel device which may be used in the form of an attachment for a bottle or other container and which will rapidly and accurately dispense in predetermined quantities.

The more specific objects and advantages will become apparent and in part pointed out in the description following taken in connection with accompanying drawings illustrating an operative embodiment.

In said drawings:—

Figure 1 is a view showing the attachment in elevation as mounted on a bottle, the latter being shown primarily in section,

Figure 2 is a vertical sectional view through a bottle and the attachment, the same being taken on the line 2—2 of Figure 1, and

Figure 3 is a horizontal sectional view taken on the line 3—3 of Figure 2.

Referring specifically to the drawings, 10 designates a bottle or conventional container for powder or the like which has adjacent the mouth, an annular bead 11 and spaced beads 12 above the same.

The dispensing body 13 is attachable to the bottle and has a depending collar 14 provided with spaced apart inwardly extending lugs 15, such lugs being adapted for downward movement between lugs or members 12, and then to be turned so as to underlap the same as shown in the drawings, thus detachably securing the device to the bottle. Within the collar 14 a suitable gasket 16 is carried for sealing engagement with the top of the bottle.

The body 13 has a horizontal wall 17 against which the gasket 16 engages. Depending from wall 17 is a lower cylinder 18 while an upper cylinder 19 extends upwardly from such wall 17, being of greater diameter than the cylinder 18 in order to pro-

vide a shoulder at 20. A discharge spout 21 leads from the interior of cylinder 19.

The upper end of cylinder 19 is closed by a screw threaded plug or cap 22. Slidable within the cylinders 18 and 19 is a discharge valve head 23, the same having an annular flange 24 adapted to seat on the shoulder 20. Screw threaded to the valve head 23 at 25 is a rod 26 which extends slidably through the cap 22 and above the same has an operating knob 27 screwed thereto. An expansive spring 28 surrounds rod 26 and abuts the under surface of cap 22 and the upper surface of valve head 23. The lower surface of valve head 23 is inclined at 29 toward the discharge spout 24.

A rod 30 is screw threaded to the valve head 23 and depends therefrom and has a cut-off disk 31 screw threaded thereto and held against accidental displacement by a lock nut 32.

By reason of the construction described, if the bottle 10 be filled with powder and inverted, and the knob 27 pulled downwardly, the valve heads 23 and 31 will move forwardly against the tension of spring 28, the valve 31 serving to cut off the quantity of material which enters the cylinder 18 and the valve 23 serving to discharge the same. Attention is called to the fact that the valve 31 by reason of its screw threaded connection to rod 30 is adjustable to vary the quantity of material which may enter the cylinder 18 upon each operation.

Various changes may be resorted to provided they fall within the spirit and scope of the invention.

We claim as our invention:—

A dispenser attachment of the class described, comprising a body, said body including an annular horizontally disposed wall provided with means to attach it to a bottle or the like, cylinders on opposite sides of said wall and of different dimensions providing a shoulder, one of said cylinders pro-

vided with a discharge opening, the other
cylinder being adapted to receive material,
a valve operable in the cylinders and hav-
ing an annular flange adapted to seat on
5 said shoulder, a cut-off valve carried by the
first mentioned valve and movable into one
of the cylinders, a stem extending from the
first mentioned valve, and a spring sur-
rounding said stem and urging the first men-
10 tioned valve into engagement with the shoul-
der.

In testimony whereof we affix our signa-
tures.

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