

Feb. 21, 1933.

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1,898,435

MEDICINE DISPENSER

Filed Sept. 27, 1932

2 Sheets-Sheet 1

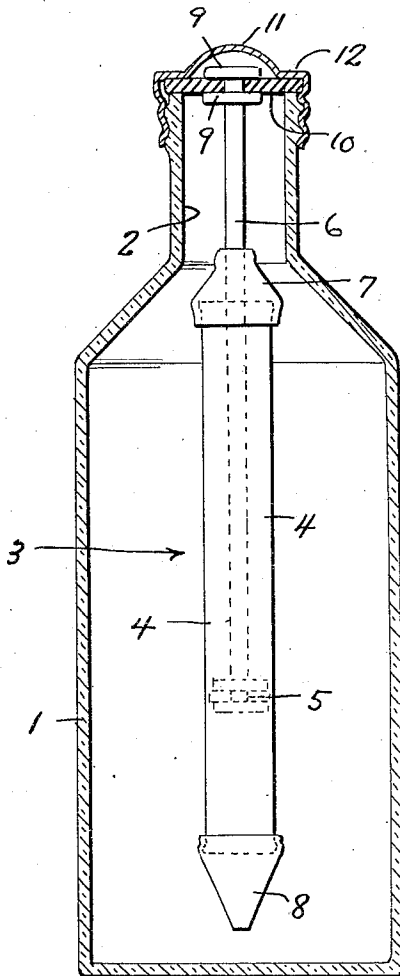


Fig. 1.

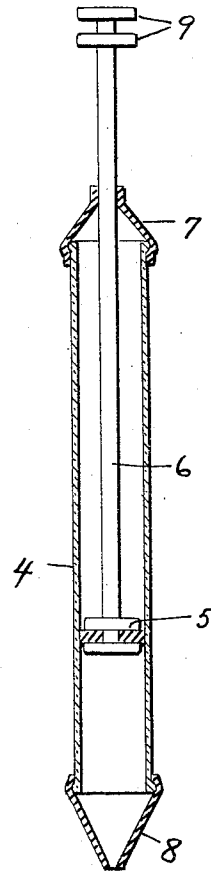


Fig. 2.

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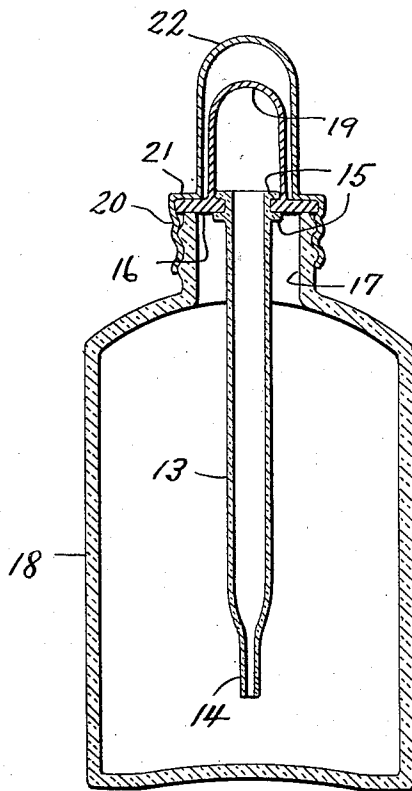


Fig. 3.

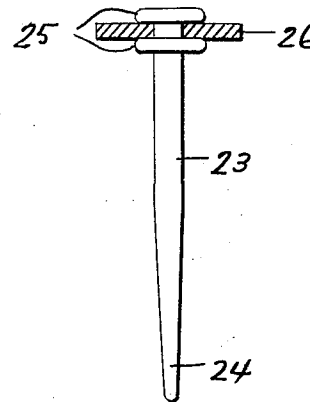


Fig. 4.

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UNITED STATES PATENT OFFICE

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MEDICINE DISPENSER

Application filed September 27, 1932. Serial No. 635,073.

The present invention relates to new and useful improvements in medicine dispensers and has for its primary object to provide, in a manner as hereinafter set forth, a device of this character embodying a novel construction, combination and arrangement of parts through the medium of which said dispenser may be enclosed for convenient use in a conventional bottle or other container in which the medicine or other liquid may be sold or kept and wherein a leak-proof closure for said bottle or other container will be provided.

Other objects of the invention are to provide a dispenser of the aforementioned character which will be simple in construction, strong, durable, efficient and reliable in use, compact, and which may be manufactured at low cost.

All of the foregoing and still further objects and advantages of the invention will become apparent from a study of the following specification, taken in connection with the accompanying drawing wherein like characters of reference designate corresponding parts throughout the several views, and wherein:

Figure 1 is a view in vertical section through one form of the invention.

Figure 2 is a detail view in vertical section through the cylinder and piston type syringe shown in Figure 1.

Figure 3 is a view in vertical section through a modification of the invention.

Figure 4 is a vertical sectional view through another modification.

Referring now to the drawing in detail, and to Figures 1 and 2 thereof in particular, it will be seen that the reference numeral 1 designates a conventional glass bottle having a reduced, externally threaded neck 2.

The reference numeral 3 designates generally a syringe which includes a barrel 4 in which a piston 5 is slidably operable, said piston 5 being fixed on the lower end portion of a rod 6 which extends slidably through a closure 7 on one end of said barrel 4. A nozzle 8 is provided on the other end of the barrel 4.

On the upper end portion of the piston

rod 6 are spaced flanges 9 between which a resilient disk or gasket 10 of suitable material, preferably rubber, is mounted. The resilient disk or gasket 10 is of sufficient diameter for its marginal portion to rest on the upper end of the neck 2 of the bottle 1, as clearly seen in Figure 1 of the drawing.

A metallic screw cap is designated by the reference numeral 11 and is threaded on the neck 2 of the bottle 1 over the resilient disk or gasket 10. The screw cap 11 is formed to provide a shoulder 12 which is engageable on the resilient disk or gasket 10.

It will thus be seen that the resilient disk or gasket 10 provides means for supporting the syringe 3 in the bottle or other container 1 in a manner to permit the ready removal of said syringe and in addition constitutes sealing means to prevent leakage from said bottle or container. It will be understood that the bottle or container 1 is to contain the medicine or other liquid to be dispensed. The resilient disk or gasket 10 still further provides means facilitating the manual operation of the piston 5 in the barrel 4, as will be apparent.

In Figure 3 of the drawing, the reference numeral 13 designates a dropper tube of suitable material, preferably glass, having a reduced lower or discharge end portion 14. The other end portion of the tube 13 has formed integrally thereon spaced external flanges 15 between which a resilient disk or gasket 16 of suitable material, preferably rubber, is mounted. The resilient disk or gasket 16 is of a diameter to rest on the upper end of the externally threaded neck 17 of a bottle or other container 18.

Rising from the resilient disk or gasket 16 is an integral rubber bulb 19 which communicates with the tube 13, said tube 13 being open at both ends. A screw cap 20 is threaded on the neck 17 of the bottle or other container 18 and is formed to provide a shoulder 21 which engages on the resilient disk or gasket 16. The screw cap 20 is further formed to provide a dome 22 which accommodates the collapsible rubber bulb 19.

In this form of the invention, it will be seen that the rubber disk or gasket 16, in

addition to providing means for supporting the tube 13 in the bottle or other container 18, also constitutes a seal for preventing leakage from the bottle when the screw cap 20 is threaded thereon. When it is desired to use the dropper 13, the screw cap 20 is removed and said dropper is lifted out of the bottle or other container. As will be apparent, the bulb 19 provides means for drawing the liquid into the tube 13 and for discharging the liquid from said tube.

In the modification illustrated in Figure 4 of the drawing, the reference numeral 23 designates a dropper stem having a tapered lower end portion 24, as usual. Spaced flanges 25 are formed integrally with the upper end portion of the stem 23 and between said flanges a resilient disk or gasket 26 is mounted. The resilient disk or gasket 26 functions in a manner similar to the disks or gaskets 10 and 16 for supporting the dropper stem 23 in a bottle or other container and for sealing said bottle or other container, in conjunction with a screw cap, against leaking.

While the invention is primarily intended for dispensing medicine, it will be understood that said invention may be used in dispensing any liquids from a container.

It is believed that the many advantages of a dispenser in accordance with the present invention will be readily understood, and although the preferred embodiments of the invention are as illustrated and described, it is to be understood that further changes in the details of construction and in the combination and arrangement of parts may be resorted to which will fall within the scope of the invention as claimed.

What is claimed is:

In a liquid dispenser, the combination with a liquid holding container including a neck, of a syringe comprising a barrel, a rod extending slidably into the barrel, a piston on one end of the rod, a pair of spaced flanges on the other end of the rod, a disk mounted between the flanges and engageable on the neck for supporting the syringe in suspended position in the container and providing a handle for operating the syringe, and a cap mounted on the neck and engaged with the disk for compressing said disk on the neck.

In testimony whereof I affix my signature.

GEORGE W. FILLAUER.