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C. G. HILGENBERG
PHARMACEUTICAL PACKAGE

2,017,800

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Fig. 1.

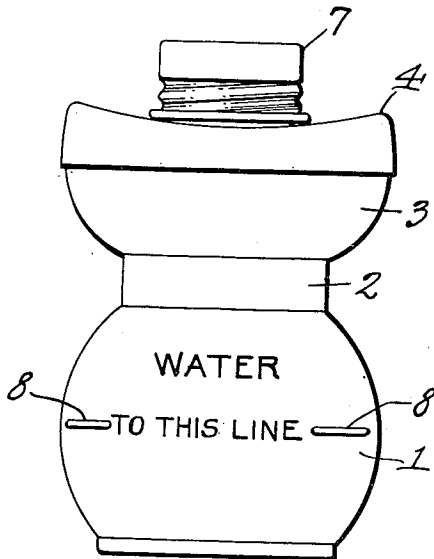


Fig. 2.

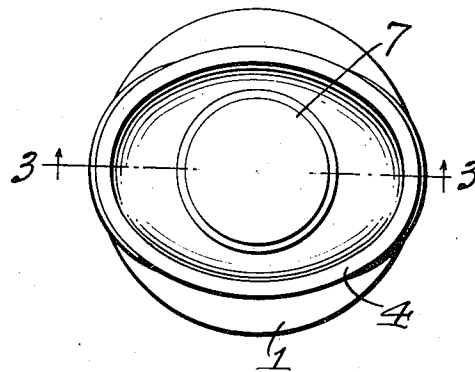


Fig. 4.

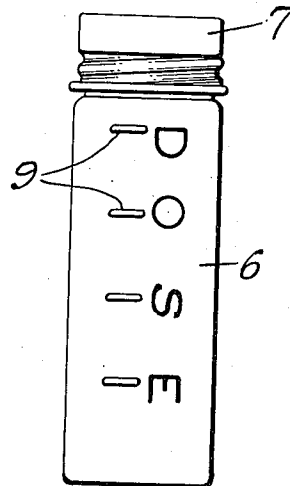
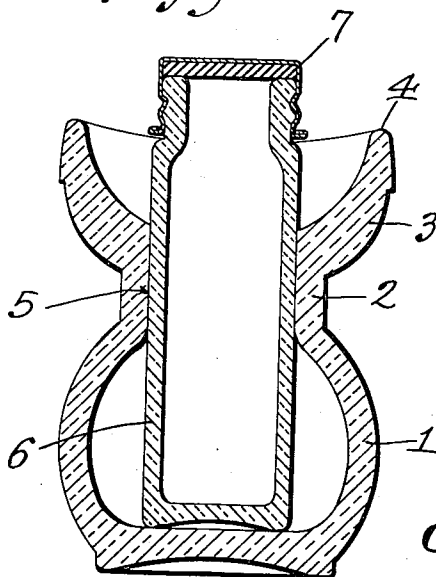


Fig. 3.



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PHARMACEUTICAL PACKAGE

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5 Claims. (Cl. 206—47)

This invention relates primarily to a combination of medicine vial or bottle and eye cup, the same being assembled to form a package adapted to be delivered to the trade as such and whereby the user will have at hand an eye cup of large capacity and a container for a medicinal preparation, a portion of the contents of which can be placed in the eye cup with water or other liquid, thoroughly and easily mixed, and thereafter applied in the usual way to the eye.

Heretofore it has been the practice to form eye cups of pressed glass. These cups have been of small capacity and it was not possible readily to mix the treatment material in the cup. Instead any necessary mixing has been done before the mixture has been placed in the cup.

Furthermore it has not been possible to combine with an eye cup a bottle or other container holding medicine to be used. Instead such containers and the eye cups have been packed and sold separately. This has greatly increased the cost to the consumer because of the separate handling and packing which has been necessary.

An object of this invention is to sell as a complete package an eye cup having sufficient capacity to permit convenient mixing of the ingredients therein, the eye cup serving as a holder, and a protector for a bottle or vial nested therein, whereby a compact package can be made of the two parts.

A further object is to provide an eye cup so proportioned as to hold the inner container properly positioned therein against lateral movement so as to be protected, during shipment or while being handled, by the surrounding eye cup.

A still further object is to provide an eye cup so proportioned that when it is inverted the vial or other container therein will be prevented by suction from falling freely out of the eye cup but will, on the contrary, be retained within the inverted cup until ample opportunity has been afforded for the user to grasp the inner container and remove it.

Another object is to provide an eye cup which can be produced in an ordinary bottle blowing machine, thereby greatly reducing the cost of production as compared with the pressed glass eye cups generally used.

With the foregoing and other objects in view which will appear as the description proceeds, the invention consists of certain novel details of construction and combinations of parts hereinafter more fully described and pointed out in the claims, it being understood that changes may be made in the construction and arrangement of parts

without departing from the spirit of the invention as claimed.

In the accompanying drawing the preferred form of the invention has been shown.

In said drawing

Figure 1 is a front elevation of the pharmaceutical package constituting the present invention, the same being on an enlarged scale.

Figure 2 is a plan view thereof.

Figure 3 is a section on line 3—3, Figure 2.

Figure 4 is an elevation of the inner container.

Referring to the figures by characters of reference, 1 designates a glass container which can be blown to any desired shape and size and is provided with a contracted neck portion 2 at the top thereof which is integral with the base portion of a trough-like cup 3. The free edge 4 of this cup is rounded and shaped to fit snugly around the eye of a person.

The opening 5 which extends from the bottom of the cup 3 through the neck 2 to the interior of the container 1 is straight and of a diameter slightly greater than that of a slender inner container 6 which can be in the form of a bottle or vial provided at one end with a removable closure 7. Normally this inner container rests at its bottom within container 1 while its other end is supported within the cup 3 and can project a short distance therefrom as shown if desired.

It is intended to place in the inner container a medicinal preparation adapted to be mixed with water or other fluid which can be placed in the outer container 1. The package as sold consists only of the outer and inner members, the inner member only containing the medicinal preparation to be used. As the inner container is fitted snugly within the opening 5 it will be held properly centered in the outer container and will form a compact structure which can be easily wrapped, stored and handled. Should the structure be inverted a suction would be set up within the container 1 which would prevent or at least greatly retard the movement of the inner container out of the eye cup. Consequently there would be no danger of inadvertently upsetting the device and dropping the inner container out of the outer container.

When it is desired to use the invention the inner container is pulled from the outer container with sufficient force to overcome the suction created. Water or other fluid is then placed in the container 1 and if desired a suitably designated line 8 can be displayed on this container to show the level to which the liquid should be brought,

Thereafter a proper amount of the contents of container 6 is poured into container 1. This amount can be determined, if desired, by providing graduations 9 on container 6 to indicate the amount to be dispensed for each dose. Following the foregoing operation the palm of the hand grasping the structure is placed over the eye cup so as to seal the opening in the top thereof. The user then violently shakes the eye cup and as the container 1 is only partly filled and communicates through the opening 5 with the cup 3, ample space is provided in which the liquid contents can be agitated to insure thorough mixing. Thereafter the eye cup is applied in the usual way to the face so as to cover the eye and cause the liquid contents of the cup to flow to the surfaces under treatment.

After the cup has been used it is emptied and washed and the inner container 6 is then forced down into opening 5 to the position shown in Figures 1 and 3 whereupon the operation heretofore described can be repeated.

What is claimed is:

1. A pharmaceutical package including an inner container, a closure therefor, and an outer container having a restricted neck portion and an eye cup extending from the neck portion, said inner container being removably and snugly seated within the neck portion and extending into the outer container and eye cup.

2. A pharmaceutical package including an inner container having a closure, and means for surrounding and protecting said container, said means including an outer container, a restricted

neck portion and an eye cup all formed in one piece, said inner container fitting snugly within the neck portion and being slidable therein to create a suction within the outer container and retard withdrawal of the inner container.

3. A pharmaceutical package including a container having a closure, and means for protecting and holding said container, said means including an outer container, an eye cup, and a restricted neck portion connecting the outer container and eye cup, there being an opening extending through the neck portion from the eye cup to the container, the diameter of said opening being such as to provide a close sliding fit for the inner container.

4. A device of the class described including an outer container, an eye cup, a restricted neck integral with and interposed between the outer container and the eye cup and having an opening therethrough through which the eye cup and the container communicate, and an inner container having a snug sliding fit within the opening and removably seated in the outer container and eye cup.

5. A device of the class described including an outer container, an eye cup, a restricted portion or neck connecting the container and eye cup and having an opening through which the eye cup and container communicate, and an inner container removably seated in the outer container and eye cup and held centered therein by the neck portion.

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