

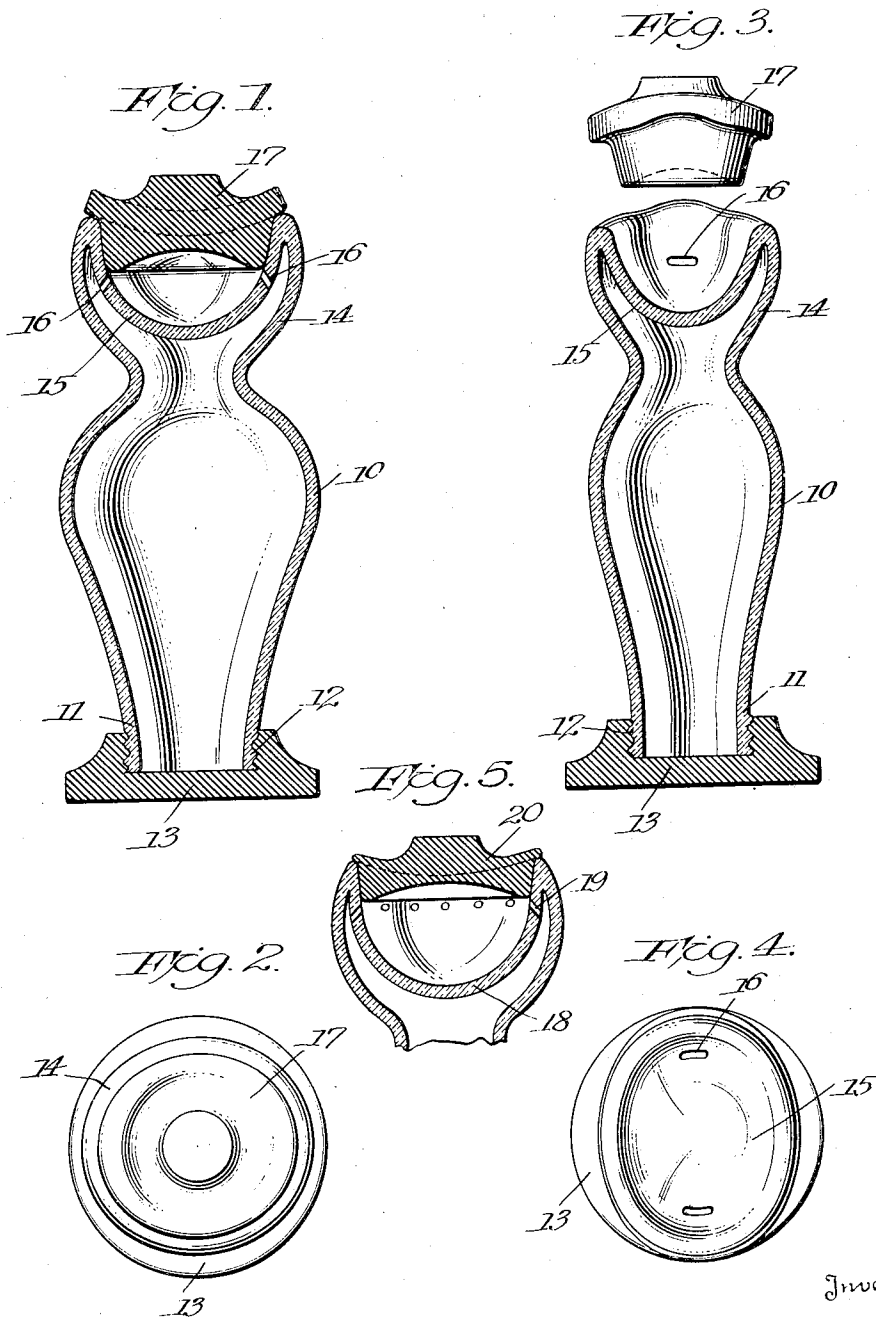
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EYECUP

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EYECUP

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5 Claims. (Cl. 128—249)

This invention relates to eye cups and refers particularly to a combined eye cup and eye wash container.

The primary object of this invention is to provide a container or bottle having an eye cup formed as a unitary part thereof and constituting a compact article particularly adapted for use in traveling.

Another object is to provide a combined eye cup and eye wash reservoir whereby the solution may be transferred from the bottle to the eye cup without the necessity of removing a stopper from the bottle and pouring the fluid from the bottle to the eye cup. With my improved device the solution in the bottle may be transferred to the eye cup merely by inverting the bottle for a few seconds to permit a portion of the fluid to flow by gravity to the cup.

Other objects and advantages of the invention will become apparent during the course of the following description.

In the accompanying drawing forming a part of the description and wherein like numerals are employed to designate like parts throughout the several views:

Figure 1 is a vertical section of my combined eye cup and fluid container as viewed from the side with the stopper in place.

Figure 2 is a top view thereof with the stopper in place.

Figure 3 is a vertical section taken at a right angle to the section shown in Figure 1 and with the stopper removed.

Figure 4 is a top view thereof with the stopper removed, and

Figure 5 is a fragmentary vertical section showing a modification of my combined eye cup and fluid container.

Referring now to the drawing, the numeral 10 designates a container or bottle which, instead of having the usual neck and filling opening at the top, is provided with means for filling the same from the bottom thereof. This means constitutes a neck portion 11 terminating in a screw-threaded opening 12 which is adapted to receive a rubber screw cap 13. As shown, this cap is flat on its bottom side and of sufficient size to constitute a base for maintaining the bottle in upright position.

The bottle is preferably elliptical in cross-section with the upper walls thereof flared outwardly to form a substantially bowl-like portion 14, having a bottom wall 15 depressed inwardly and extending across and closing the

end of the bottle. At a point below the top of the eye cup, I provide a pair of opposed slots or openings 16 placing the cup in communication with the interior of the bottle. A rubber stopper 17 is adapted to seat upon the eye cup and to cover the same when the cup and bottle are not in use and also when the solution is transferred to the cup.

With the arrangement as thus described, and assuming the bottle has been filled from the bottom with a suitable eye wash, if it is now desired to use the eye cup, the bottle with the stopper seated upon the cup is first inverted so that the eye wash or fluid will escape from the interior of the bottle through the openings 16 and into the compartment formed by the cup and the stopper. When a suitable amount of fluid has been transferred to this compartment, the bottle is then returned to its normally upright position, whereupon the solution is retained in the eye cup without the aid of the stopper. This may now be removed so that the eye cup can be applied to the eye in the usual manner. As the openings 16 are positioned a substantial distance above the bottom of the cup, a sufficient quantity of fluid will be retained therein when the bottle is righted. After the treatment, the solution may be disposed of and the stopper placed upon the cup. This operation may be repeated until the bottle is emptied, whereupon it may be easily and quickly refilled by removing the cap 13.

It will thus be apparent that I have provided a compact arrangement, particularly adapted for traveling purposes, wherein an eye cup and an eye wash container may be carried as a unitary construction. It will also be appreciated that, with this device, the fluid from the container may be transferred to the eye cup without the usual inconvenience of first removing a closure or stopper from a bottle and then pouring the liquid from said bottle into the eye cup.

In Figure 5, I have illustrated another form of my invention, wherein I provide an eye cup 18 having a plurality of small openings 19 extending around the periphery of the cup, these openings also placing the cup in communication with the interior of the bottle. A stopper 20 corresponding to the stopper 17 is utilized to cover the cup 18. The eye cup is adapted to be filled in a manner similar to that described above. In applying the cup to the eye, however, the fluid from the interior of the bottle will flow from the openings 19 in a shower directly against the eye when the cup is applied thereto. If it is desired,

the eye cup may be used by applying it directly to the eye without first transferring some of the fluid from the bottle to the cup, as above described. The shower of fluid from the openings
5 when the bottle is tilted will be sufficient for most purposes. When the cup is righted after it has been applied to the eye, the used fluid will be retrieved in the bottom of the cup and may thereafter be thrown away so that it will not mix with the unused fluid in the bottle.

10 It will be apparent that with the arrangement disclosed in Figures 1 to 4, the fluid will not flow in a shower from the openings 16 when the cup is applied to the eye. In fact, little or no fluid
15 will issue from the bottle to the cup and the fluid which had been previously transferred to the cup will constitute the dose to be applied to the eye.

While I have specifically designated my combined eye cup and container as being constructed of glass, the invention is by no means limited to this form of material, as the device may be readily constructed of metal or any other suitable material. Furthermore, while I have shown the
25 eye cup as constituting an integral part of the bottle, the device could be constructed of two separate pieces and then suitably secured together.

30 Some changes may be made in the construction and arrangement of the parts of my invention without departing from the real spirit and purpose thereof, and it is intended to cover in the claims any modified forms of structure or use or mechanical equivalents which may be reasonably incurred within their scope.

35 I claim:

1. A device of the character described comprising a rigid container having a transverse depressed wall forming an eye cup, said eye cup
40 having an imperforated bottom being provided with a lateral opening disposed above the bottom

of the cup and placing said cup in communication with the interior of the container whereby upon tilting of said container, liquid will flow from the same to the eye cup and settle in the bottom of the cup upon righting of the container. 80

2. A device of the character described comprising a bottle having an end wall depressed to form an integral eye cup, said eye cup being provided with a plurality of openings adjacent its top placing said cup in communication with the interior
85 of the bottle, whereby, upon application of the cup to the eye, fluid will flow through said openings in a shower, and upon returning the bottle to upright position, substantially all of the used fluid will settle into the bottom of the cup. 90

3. A device of the character described comprising a bottle having a portion thereof forming a depressed end wall providing an eye cup, said eye cup being provided with a lateral opening disposed above the bottom of the cup and placing said cup in communication with the interior
95 of the bottle, and a stopper engaging the upper periphery of the cup above the passage.

4. A device of the character described comprising a bottle having an end wall depressed to form an eye cup having an imperforate bottom, said eye cup being provided with a lateral opening disposed above the bottom of the cup and placing the interior of the bottle in communication with said cup, and said bottle being provided
105 with a filling opening separate and distinct from the opening in said eye cup.

5. A device of the character described comprising an elongated rigid container having a transverse depressed wall at its top forming an eye cup, said cup being provided adjacent its top with a lateral opening communicating with the interior of said container, the bottom wall of said container being provided with a filling opening. 110

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