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EYE CUP

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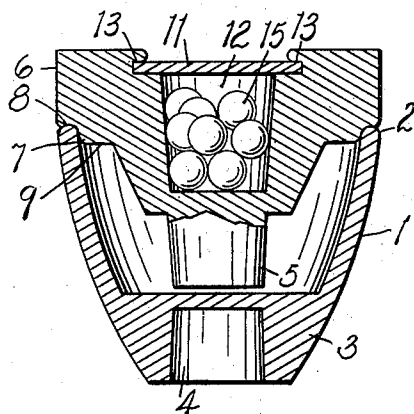


Fig. 1

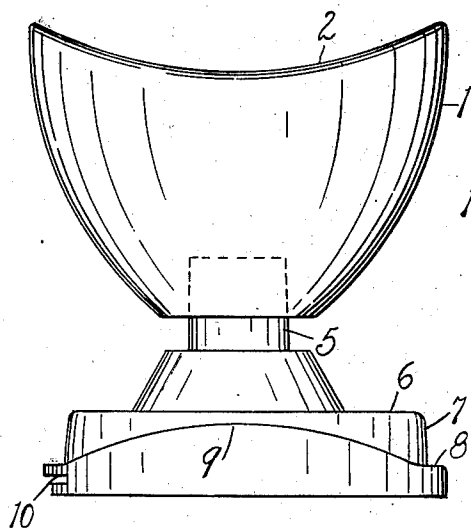


Fig. 2

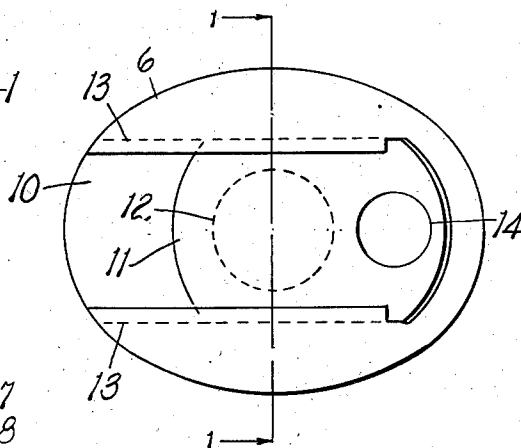


Fig. 3

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EYECUP

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9 Claims. (Cl. 128-249)

This invention relates to improvements in eye cups.

The main objects of this invention are:

First, to provide an improved eye cup which is well adapted to be carried about by workmen and others for convenient use, the eye cup receptacle being effectively covered or closed for protection and the structure closing a chamber in which solution forming tablets or pellets may be carried.

Second, to provide a structure having these advantages which is very compact when arranged for storage or carrying, the eye cup receptacle being protected by a closure so that it may be formed of glass if desired without likelihood of breakage.

Objects pertaining to details and economies of the invention will definitely appear from the description to follow. The invention is defined in the claims.

An eye cup which embodies the features of the invention is clearly illustrated in the accompanying drawing, in which:

Fig. 1 is a fragmentary view mainly in vertical section on a line corresponding to line 1-1 of Fig. 3, solution forming tablets being conventionally illustrated.

Fig. 2 is a side elevation of the eye cup assembled for use.

Fig. 3 is an inverted view of the base portion of the eye cup.

In the embodiment of the invention illustrated in the accompanying drawing, the eye cup receptacle 1 is provided with a suitably shaped rim 2 adapting the receptacle for use as an applicator. The bottom 3 of the receptacle 1 is of substantial thickness and is provided with a downwardly opening upwardly tapered socket 4. This socket is adapted to receive the tapered stem 5 of the combined base and closure member 6. This member 6 has an upper portion 7 cross sectionally shaped to fit within the receptacle when the base is inverted thereon as shown in Fig. 1.

The base has an upwardly facing flange-like peripheral portion 8, the upper face of which is conformed to fit the rim of the receptacle when the base is adjusted as a closure therefor. The portion 8 has upwardly curved parts 9 adapted to fit the downwardly curved parts of the rim of the receptacle. The base has a recess 10 in the bottom thereof adapted to receive the slidable closure 11 for the chamber 12 provided in the base to open at the bottom thereof. The closure recess 10 has undercut ways 13 at opposite sides thereof receiving the edges of the closure 11. The

closure 11 is provided with a finger opening 14 for convenience in manipulation.

The combined base and closure member is preferably formed of plastic material and it will be noted that the lower portion of the stem is conical in form so that the chamber 12 may extend into the stem providing a chamber of substantial capacity for the solution forming tablets 15.

With the base adjusted as a closure for the eye cup receptacle 1 it is effectively protected from dust and dirt, and workmen and others may carry the cup about in their pockets. The base when adjusted as a closure also serves to form a protecting member by supporting the walls of the cup against inward pressure. It will also be noted that the flange 8 overlies the rim of the cup, protecting it from dust and dirt or any substance that is not readily wiped off.

The tablets or pellets 15 may be readily carried in the chamber 12 and each one may be of desired content to form one cup of solution. Of course, that may be dissolved in any convenient receptacle.

When assembled for use as an eye cup, as shown in Fig. 2, the structure is manipulated the same as the conventional type of eye cup.

I have illustrated and described the invention in an embodiment which I consider highly practical. I have not attempted to illustrate or describe modifications and adaptations which I contemplate as it is believed this disclosure will enable the adaptation of the invention as may be desired.

Having thus described my invention, what I claim as new and desire to secure by Letters Patent is:

1. An eye cup comprising a receptacle having a socket in the bottom thereof and provided with a shaped rim adapting the receptacle as an applicator, a combined base and closure member for said receptacle having a stem detachably engageable with said socket and having an upper cross-sectionally-conformed-portion adapted to fit into said receptacle when the base is inverted thereon, said base having a flange-like peripheral portion the upper surface of which is conformed to fit the rim of the receptacle when the base is adjusted as a closure therefor, the receptacle being of a depth to receive the stem when the base is in its closure position, said base having a chamber therein opening at the bottom thereof and adapted to receive tablets for forming solutions, said base being provided with a closure receiving recess with undercut slideways at opposed edges thereof, and a closure slidable in said recess and

slideways and disposed entirely within the recess when in closed position.

2. An eye cup comprising a receptacle having a socket in the bottom thereof and provided with a shaped rim having concave portions disposed on the opposite sides of the receptacle adapting the receptacle as an applicator, a combined base and closure member for said receptacle having a stem detachably engageable with said socket and having an upper cross-sectionally-conformed-portion adapted to closely fit for a substantial distance into said receptacle when the base is inverted thereon to support the walls of the receptacle against inward pressure and to facilitate retention of the combined base and closure member in closure position on the receptacle, said base having a flange-like peripheral portion the upper surface of which is conformed to fit on said concave portions of the rim of the receptacle when the base is adjusted as a closure therefor, the receptacle being of a depth to receive the stem when the base is in its closure position.

3. An eye cup comprising a receptacle having a socket in the bottom thereof and provided with a shaped rim adapting the receptacle as an applicator, a combined base and closure member for said receptacle having a stem detachably engageable with said socket and having cross-sectionally-conformed-portion adapted to closely fit for a substantial distance into said receptacle when the base is inverted thereon, said base having a chamber therein opening at the bottom thereof and adapted to receive tablets for forming solutions, said base being provided with a closure receiving recess with undercut slideways at opposed edges thereof, and a closure slidable in said recess and slideways and disposed entirely within the recess when in closed position.

4. An eye cup comprising a receptacle having a socket in the bottom thereof and provided with a shaped rim adapting the receptacle as an applicator, a combined base and closure member for said receptacle having a stem detachably engageable with said socket and having a cross-sectionally-conformed-portion adapted to closely fit for a substantial distance into said receptacle when the base is inverted thereon to support the walls of the receptacle against inward pressure and to facilitate retention of the combined base and closure member in closure position on the receptacle.

5. An eye cup comprising a receptacle having a socket in the bottom thereof and provided with a shaped rim adapting the receptacle as an applicator, a combined base and closure member for said receptacle having a stem detachably engageable with said socket, said base being adapted when inverted to constitute a closure for said receptacle, said base having a chamber therein opening at the bottom thereof and adapted to receive tablets for forming solutions, said base being provided with a closure receiving recess with undercut slideways at opposed edges thereof, and

a closure slidable in said slideways and disposed entirely within the recess when in closed position.

6. An eye cup comprising a receptacle having a socket in the bottom thereof and provided with a shaped rim having concave portions disposed on the opposite sides of the receptacle adapting the receptacle as an applicator, a combined base and closure member for said receptacle having a stem detachably engageable with said socket and having an upper cross-sectionally-conformed-portion adapted to fit into said receptacle when the base is inverted thereon, said base having a flange-like peripheral portion, the upper surface of which is conformed to fit on said concave portions of the rim of the receptacle when the base is adjusted as a closure therefor, the receptacle being of a depth to receive the stem when the base is in its closure position, said base having a chamber therein adapted to receive solution forming tablets, and a closure for said chamber.

7. An eye cup comprising a receptacle having a socket in the bottom thereof and provided with a shaped rim adapting the receptacle as an applicator, a combined base and closure member for said receptacle having a stem detachably engageable with said socket and having an upper cross-sectionally-conformed-portion adapted to closely fit for a substantial distance into said receptacle when the base is inverted thereon, said base having a chamber therein adapted to receive solution forming tablets, and a closure for said chamber.

8. An eye cup comprising a receptacle provided with a shaped rim having concave portions disposed on the opposite sides of the receptacle adapting the receptacle as an applicator, a combined base and closure member for said receptacle having an upper cross-sectionally-conformed-portion adapted to closely fit for a substantial distance into said receptacle when the base is inverted thereon to support the walls of the receptacle against inward pressure and to facilitate retention of the combined base and closure member in closure position on the receptacle, said base having a flange-like peripheral portion, the upper surface of which is conformed to fit on said concave portions of the rim of the receptacle when the base is adjusted as a closure therefor, and means for detachably connecting said combined base and closure member to the bottom of said receptacle.

9. An eye cup comprising a receptacle provided with a shaped rim adapting the receptacle as an applicator, and a combined base and closure member for said receptacle conformed to closely engage the vertical side walls of the receptacle to facilitate retention of the combined base and closure member in closure position on the receptacle, and means for detachably connecting said combined base and closure member to the bottom of said receptacle.

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