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2,419,840

STOPPER VALVE FOR FLUID CONTAINERS

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Fig. 1.

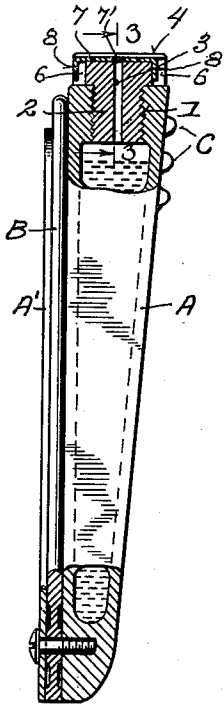


Fig. 2.

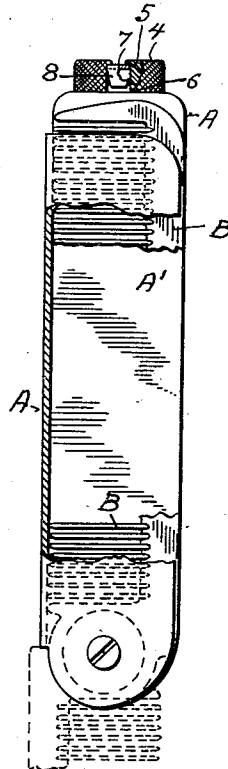


Fig. 3.

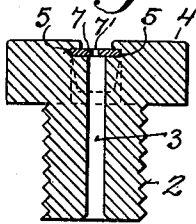


Fig. 4.

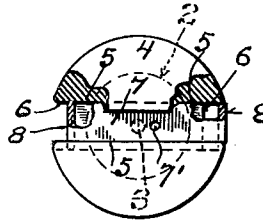
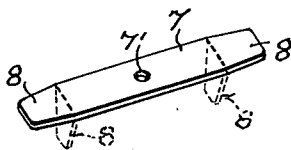


Fig. 5.



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STOPPER VALVE FOR FLUID CONTAINERS

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1 Claim. (Cl. 251—53)

1

My invention refers to valve controlled stoppers for fluid containers of any type and its primary object is to provide a stopper with a transversely disposed shiftable apertured plate, under manual control, to open or close the stopper whereby fluid may be cut off or on which is desirable when a few drops of fluid is discharged or cut off.

My invention is primarily adapted for use in fountain combs such as disclosed in my Patent No. 2,359,427 when heavy oil tonics are discharged upon the hair and scalp prior to combing the same.

Another object of my invention is to provide specific fountain comb device associated with a stopper wherein the comb is nested into a pocket or shield at one side of said fountain container.

With the above and other minor objects in view, the invention consists in certain peculiarities of construction or combination of parts as will be fully set forth hereinafter with reference to the drawings.

In the drawings:

Figure 1 represents a side elevation of a fountain comb having fitted thereto a stopper embodying the features of my invention, parts of the comb being partly broken away and in section to more clearly illustrate the invention.

Figure 2, a side elevation of the fountain comb illustrating the stopper elevation.

Figure 3, a magnified sectional view of the stopper, the section being indicated by line 3—3 of Figure 1.

Figure 4, a plate view of the same with parts broken away and in section to more clearly illustrate structural features and

Figure 5, a perspective view of a slide valve plate element of the stopper, the same being flattened out for assemblage.

Referring by characters to the drawings, A represents a hollow handle utilized as a container for fluid. B, a comb pivoted to one of the side walls and A' a shield or jacket into which the comb is nested when not in use.

The head of the container is provided with a screw threaded aperture 1, adapted to receive a threaded plug 2 of the stopper, which plug is provided with a centrally disposed discharge aperture 3 and a flared cap 4 overhanging the upper end of the plug.

The top face of the cap 4 is provided with a transversely positioned flanged groove 5, terminating with vertically disposed recesses 6.

Slidably mounted in the groove is a valve plate 7 provided with central aperture 7'. The ends of the plate, as best shown in Figure 5, terminating with tongues 8, which tongues are folded downwardly into the recesses 6.

The inner walls of the tongues are of such dis-

2

tance apart that when the plate is shifted to its extreme position in either direction, one of said walls will engage the corresponding recess wall whereby the slide movement is limited as best indicated in Figure 4. Hence it will be noted, when the slide is moved from left to right (Figure 4) the aperture 7' thereof is off center from the stopper, aperture 3 and it will be noted that the right hand tongue in said position is flush with the outer periphery of the stopper head.

When it is desired to open the valve for discharging fluid from the container, the operator simply pushes the right hand tongue inwardly, whereby the aperture 7' of the plate will be aligned with the aperture 3 of the plug.

It should be noted that the cap assemblage is what might be termed "streamlined," which is essential, bearing in mind that the container is a pocket piece and hence, due to the fact that there are no projections, the device can be freely inserted and withdrawn from the pocket of a user without snarling due to projections.

From the foregoing description, it will be observed that when the valve plate is in its open or functioning position, the operator of the container may, by simply gyrating said container slightly, cause a predetermined number of drops of the ointment or fluid upon the scalp and hair preparatory to massaging and combing the same, it being noted that the head of the comb handle is provided with a plurality of knobs C which may be conveniently used as a massage instrument.

While I have shown and described one simple exemplification of my invention, it is understood that I may vary structural features within the scope of the claim as analyzed by experts.

I claim:

In a container for pocket use, a stopper therefor comprising a threaded apertured plug, an enlarged cap forming part of the plug having a grooved channel extending crosswise thereof terminating with end recesses, an apertured flat slidable plate fitted into the grooved channel having companion down-turned tongues engaged within the cap end recesses, the sliding movement of said plate tongues being confined within the cap recesses, whereby exposed projections from the cap are eliminated.

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REFERENCES CITED

The following references are of record in the file of this patent:

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1,871,640	Weaver	Aug. 16, 1932