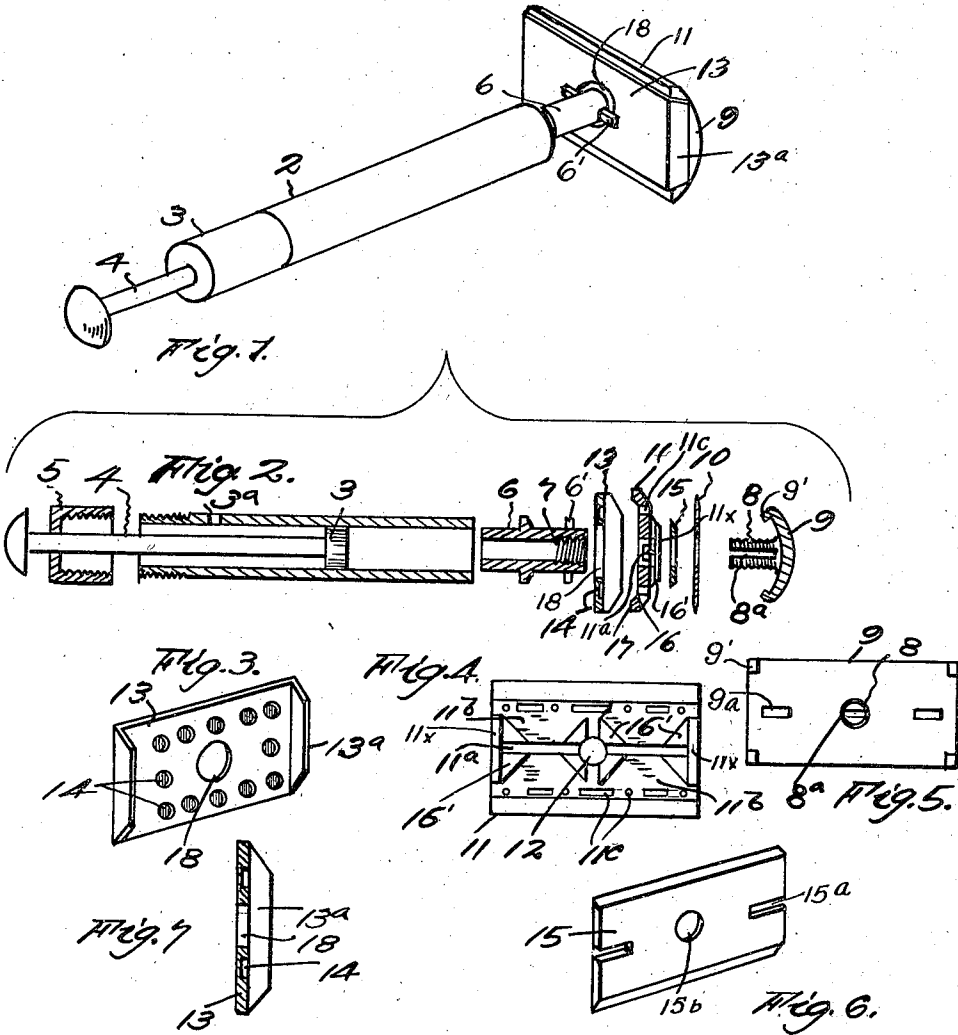


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CREAM FOUNTAIN RAZOR
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CREAM FOUNTAIN RAZOR

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11 Claims. (Cl. 30-41)

This invention is a fountain, safety razor.

An object of the invention is to provide a simple, practical, substantial, inexpensive and compact safety razor unit incorporating novel water reservoir and paste or cream container and feeding features.

An object is to provide a fast and smooth shaving razor with means to concurrently supply water and cream to the skin being shaved whereby to eliminate the use of fingers or brush for the application of water or cream during shaving.

Further an object is to provide a safety razor which is self-clearing in action while in use and will not clog up with cuttings and water or cream.

Additionally an object is to provide a cream and water feeding safety razor whereby to keep the skin so continually moist during shaving that the life of the very delicate types of blades used in razors of this class is greatly prolonged, and at the same time a smooth, close shave is given the skin without irritation as is common in cases where the skin gets too dry during the operation and which is the result of the fact that with the common non-wetting type of razor the moisture first applied is taken off the skin by the first sweep of the blade the immediately following repeat cuts being on quite dry skin.

Also an object of the invention is to provide a water reservoir razor which can be instantly replenished by occasional immersion in water during shaving.

Another object of the invention is to provide a safety razor having a paste or cream barrel which can easily be filled directly from a conventional cream tube, or by induction of paste from any jar or other open mouth vessel.

And, an object is to provide a safety, moisture supplying razor which can be thoroughly rinsed after shaving to keep it clean.

The invention consists in certain advancements in this art as set forth in the ensuing disclosure and having, with the above, additional objects and advantages, and whose constructions, combinations, and details of means will be made manifest in the following description of the herewith illustrative embodiments and mode of operation; it being understood that modifications, variations and adaptations may be resorted to within the scope, principle and spirit of the invention as it is more directly pointed out in the subjoined claims.

Figure 1 is a perspective of the razor.

Figure 2 is an axial section with parts in relative but separated arrangement to show assembly order.

Figure 3 is a perspective of the detached reservoir wall.

Figure 4 is a plan of the outer face of the basal or backing member of the razor.

Figure 5 is a plan of the inside face of the

outer clamp plate cooperating with the backing member to clinch an interposed blade.

Figure 6 is a perspective of a cover forming a permanent part of the backing member but here removed to show channels in the member for out flow of cream as forced into the member.

Figure 7 is a cross-section to show indentations in the reservoir.

The instrument embodies a suitable size, hollow handle 2 constituting a barrel for shaving paste or cream and has a piston 3 working therein and provided with a rearwardly extended rod 4 which passes out through a screw cap 5 of the handle; the outer end of the rod having a button on which pressure is put occasionally, while the razor is applied for shaving, to effect discharge of the cream from the barrel and out at the head of the razor.

Telescoping into the forward end of the barrel 2 is a tubular coupling 6 having a threaded bore part 7 to receive the complementary, threaded stem 8 projecting rearwardly from the center of the rear face of an arched cap plate 9 whereby to firmly clinch an interposed razor blade 10 onto a blade backing member 11 having a central aperture 12 which passes the stem 8 for screwing into the bore part 7 to pull the coupling 6 to the member 11 but not into the hole 12 thereof which fits and receives the screw stem 8.

A provision for constantly feeding water to the edges of the interposed blade 10 includes a rear wall 13 whose inner face is pitted or indented at 14 more or less in opposition to rows of apertures 11a (of various shapes) at the side margins of the member 11 the rear face of which is concaved at 16, Fig. 2, to form a water holder in combination with the reservoir wall 13 which latter bears along longitudinal bead margins 17 on the rear face of the member 11. The wall 13 has a central hole 18 to pass and being slightly larger than the rear end of the coupling 6, as seen in Fig. 1. Therefore when the razor assembly or head is dipped into water this quickly fills the reservoir spaces, and while the razor is in use this water works out at the edges of the blade, thus constantly wetting the skin. The wall 13 may be removably affixed to the member 11 in any desired manner and is here shown as having end flanges 13a to grip the ends of the member 11. The screw stem 8 pulls the lugs 6' of the coupling 6 against the rear face of the wall 13 when the razor is assembled.

To provide for the flow of the cream from the barrel out and into the head assembly, the stem 8 is shown in Fig. 2 as having an axial cross-slot 8a opening into the bore of the coupling 6, and the outer face of the member 11 has longitudinal grooves 11a leading out from its center hole 12 and registering with the applied stem slot 8a. Leading from the grooves 11a are depressions 11b

in the outer face of the member 11; these depressions forming wide channels for the dispersal of the cream from the barrel outward to and along the edges of the interposed blade 10 whose main body rests solidly on a thin cover and bed forming part 15 which lies on lands 16' and fits between end flanges 11a of the member 11 and forms an outer wall over the channels 11b, and may be formed, if desired, integral with the base member 11. The cover part 15 has end notches 15a to receive tenons 9a of the cap 9; Fig. 5, and has a central hole 15b to fit and pass the cap stem 8.

Therefore, when the separable head members 9 and 11 and 13 and the intermediate cover part 15 are assembled and secured to the coupling 6, by the screw 8, and when this has been attached to the rear or forward end of the barrel 2—after this has been filled with cream—as the piston 3 is gently moved inward in the barrel the cream will be forced into the hollow stem 8 and thence out into the relative recesses and channels in the member 11 and will spread along the edges of the blade 10 clinched in the head assembly. The cream is fed to the skin only occasionally, but the water in the reservoir spaces will constantly flow to the razor blade edges. The razor head is reversed, that is inverted, from time to time in the hand, while in use, so that cream and water are at each edge of the blade may be used up. During one shaving period the head of the razor can be repeatedly dipped into water to replenish the supply in the reservoir.

When the barrel is to be filled from a cream tube the piston is shifted out to the limit to uncover a vent hole 3a in the barrel. As the cream is squeezed into the barrel from the tube at the opposite end of the barrel air therein will be ejected by the incoming cream. If the open end of the barrel 2 is immersed in a volume of the cream then this will be drawn in by induction effect of the piston as this is moved outward in the barrel.

In the embodiment shown the blade supporting part 15 is a separate piece resting on the lands 16' of the member 11 and covers the depressions 11b as well as the channels 11a, but as before stated, this part 15 may form an integral part or portion of the member 11.

The cap plate 9 is shown in Fig. 5 as having blade pressing corner lugs 9'; these being concealed by the covering flanges 13a, Fig. 1. It is obvious that when there is water in the space under the reservoir wall 13 that water will flow to the edges of the blade 10 to provide for a wet shave even if there is no cream provision in the razor head.

What is claimed is:

1. A fountain safety razor having a backing member which is channelled to discharge cream to side margins thereof, and a water reservoir back of said member; said member having apertures along side margins to feed water from said reservoir to said edges, and means to force cream to the channels in the said member.

2. A fountain safety razor having a backing member, and a wall on the back of said member in spaced relation to form a water holder and having a hole for inflow of water to the space; said member having apertures leading from the water holder space to side margins of the member to wet the skin to which the razor is applied while in use.

3. The razor of claim 2; said wall being indented in its inner face to aid in holding water.

4. A fountain safety razor having a backing member, a reservoir wall mounted on said member to supply water to side margins of the member; the member having cream channels to said margins, a blade clamping plate in front of said member, a cream barrel, and clamp means passing through said reservoir wall and said member and rigidly setting an interposed razor blade on the member and including a head part removably attaching to the barrel; said means forming a conduit from the barrel.

5. The razor of claim 4; and said head part including a tubular coupling, and a hollow stem on said plate screwed into the coupling.

6. A safety razor including a hollow handle forming a cream barrel, a blade clamping assembly removably attachable to the handle and including a backing member having a passageway leading from the handle to the working edges of the razor having holes facing the blade and being outward from said passageway, a piston in the handle for forcing cream to the said edges, and a water reservoir in the assembly to supply water to the said holes.

7. In a safety razor, a blade clamping assembly having a backing member, and a separable water reservoir on the rear of said member and adapted to take up a charge of water when the assembly is momentarily dipped in water while the razor is in service, and said member having ducts to carry the water to the razor edges while working of skin to be shaved.

8. The razor of claim 7, and means for intermittently feeding a shaving cream to the blade edges while in use, and including a handle and piston device, and a cap plate having a stem passing through the member and through the reservoir to affix them in assembled relation to the rear end of the handle device and the stem being hollow to conduct the cream to the blade.

9. A safety razor having in combination, means to clamp an inserted razor blade, and means for supplying both water and a cream to the clamped blade and including separate water and cream supplying chambers which have separate communication to the blade.

10. A fountain safety razor having a cream holding piston barrel having a forward, internally threaded end, a backing member mounted on said end and having a land part with a portion spaced from the member to provide a paste escape channel, and a blade clamping plate having a stem screwing into the rear end of the barrel and having a passageway from the barrel to said channel for discharge of paste from the barrel.

11. A fountain safety razor having a backing plate provided with a central aperture and a recessed back face; an outer wall to form a reservoir with said face, means to clamp a blade on the front of said plate and clamp the wall to the plate and including a hollow screw stem passing through said aperture, and means to force cream through the stem to the front of the plate; said plate having channels for discharge of supplied cream to and along side margins of the plate, and the plate having marginal rows of apertures from the reservoir to the front of the plate.

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