

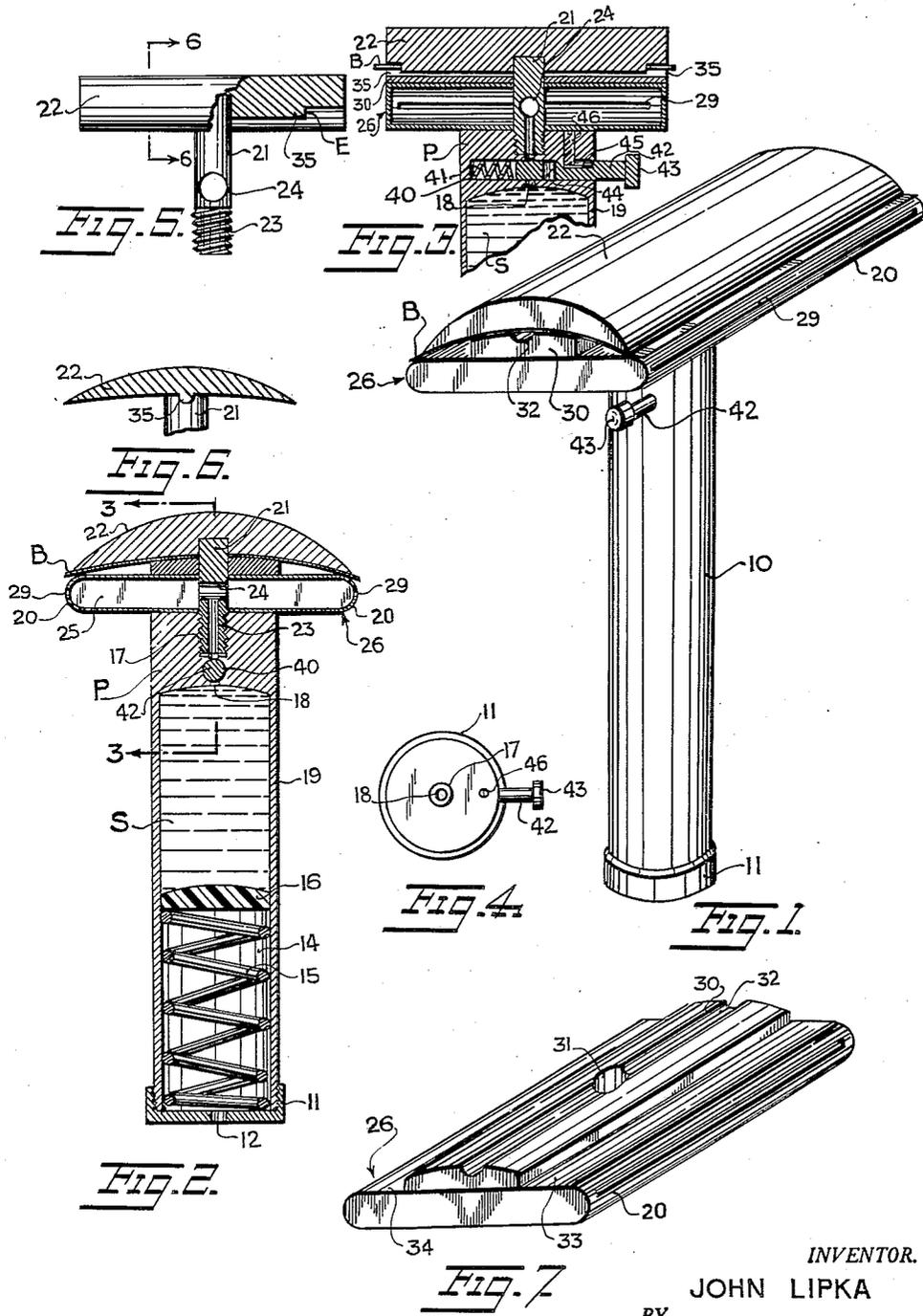
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LATHER DISPENSER IN A RAZOR

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**LATHER DISPENSER IN A RAZOR**

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2 Claims. (Cl. 222-191)

This invention relates to the art of safety razors and particularly concerns a razor provided with a lather dispenser.

It is a principal object of the invention to provide a razor with a handle for storing lather under pressure and with a blade platform having an outlet for the lather.

It is a further object to provide a safety razor with means for dispensing lather therefrom in advance of the shaving edge of a razor blade therein.

For further comprehension of the invention, and of the objects and advantages thereof, reference will be had to the following description and accompanying drawings, and to the appended claims in which the various novel features of the invention are more particularly set forth.

In the accompanying drawings forming a material part of this disclosure:

Fig. 1 is a perspective view of a safety razor embodying the invention.

Fig. 2 is a central longitudinal sectional view of the razor.

Fig. 3 is a sectional view taken on lines 3-3 of Fig. 2.

Fig. 4 is a top plan view of the handle of the razor.

Fig. 5 is an elevational view partly in section of a razor head plate.

Fig. 6 is a sectional view of the razor head plate taken on lines 6-6 of Fig. 5.

Fig. 7 is a perspective view of the razor blade box-like member and blade platform of the razor head.

In Figs. 1 and 2 is shown a safety razor having an elongated handle 10 in the form of a hollow cylinder. At one end the handle is externally threaded. A cap 11 is threaded on the handle. In the cap is an aperture 12. Disposed in the chamber 14 is a coil spring 15. One end of the spring seats on cap 11 and the other end seats on a circular sealing disk or plunger 16. The disk or plunger 16 serves as a partition to divide the handle cavity into a lower chamber 14 and an upper chamber 19. Upper chamber 19 has an outlet 17 at the top of the handle. This outlet is threaded to receive the threaded end of a post 21 lodged in the razor head plate 22. The outlet 17 together with a bore 18 in top portion P of the handle define a passage in the handle extending from the upper chamber 19 to the top of the handle.

Post 21 has a longitudinal bore 23 and a diametral bore 24 extending transversely thereto. Diametral bore 24 opens into chamber 25 which is a substantially closed cavity in the razor head box-like member 26.

The razor head box-like member 26 is a generally flat hollow lather dispenser box-like member with narrow curved sides 20 in which are long narrow opposed slots 29 shown in Fig. 2. On the top of box-like member 26 is a platform or plate 30 with a centrally disposed longitudinal groove 32 and a central aperture 31 as best shown in Fig. 7. The margins 33, 34 of the top of box-like member 26 together with plate 30 serve as a platform for the flexible blade B. This blade is a conventional type with a central slot through which the central

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ridges 35 on head plate 22 extend. The ridges 35 fit snugly into groove 32. The ridges 35 shown in Figs. 3, 5, 6 are separated by post 21 on razor head plate 22 and terminate with their ends E just short of the outer edges of the razor head plate.

Valve mechanism for controlling the bore 18 is disposed in the top portion P of handle 10 and this mechanism includes a transverse diametral bore 40 best shown in Fig. 3. In this bore is fitted a coil spring 41 and a pin 42. This pin terminates in an enlarged head 43 which serves as a pushbutton. In pin 42 is a transverse bore 44 which can be brought in alignment with bore 18 by pushing pin 42 inwardly against tension in spring 41. A recess 45 is provided in pin 42 into which a setscrew 46 extends. This setscrew is threaded in the top portion P and serves to limit inward and outward movement of pin 42.

The handle 10 is loaded with a lather S under pressure by first unscrewing the handle 10 from post 21 so that both razor head plate 22 and box-like member 26 are removed. This exposes the outlet 17 and bore 18 at the top of the handle as shown in Fig. 4. It is now possible to load the handle with lather from a conventional aerosol type lather dispensing can. The nozzle of the can may be inserted in outlet 17 and when button 43 is pressed a clear passage opens to upper chamber 19. The upper chamber is loaded with lather against the tension in spring 15 which is forced down toward the cap 11 by the pressure on the plunger disk 16. Upper chamber 19 thus enlarges to store the lather while lower chamber 14 diminishes in size. The aperture 12 permits air to escape from lower chamber 14 during the loading step.

When the handle is loaded with lather, the pin 42 is moved outwardly by releasing button 43. This arrangement provides a valve controlled means for loading and dispensing the lather from the razor. The razor head plate 22 and the razor head box-like member 26 with blade B therebetween are then secured on handle 10 by passing post 21 through the blade B and aperture 31. Apertures are provided in the top and bottom of box-like member 26 in registration with aperture 31 for passage of post 21 therethrough. When the razor head plate 22 and the razor head box-like member 26 are seated on the handle it becomes possible to dispense lather in a thin wide sheet-like form from the slot 29 which is in advance of the path of movement of the edge of blade B on the face of the shaver. When button 43 is pressed the lather is released from outlet 17, through bores 23 and 24 into chamber 25. Since the razor is inclined in shaving, the slot 29, adjacent the face, will serve as the lather outlet while the other slot 29 serves as an air inlet to relieve any suction which might develop in chamber 25. The chamber 25 also serves as an expansion chamber for the released lather. The air entering through the slot 29 remote from the face enhances the foaming of the lather in the chamber as it expands therein. The lather leaving through the other slot 29 is readily spread on the face of the shaver as the curved side 20 of the razor head box-like member 26 is moved over the face. All parts of the razor and handle are so arranged that they can be readily disassembled and washed when necessary.

With the above described razor it is possible to shave one's face immediately after wetting it with lukewarm water. No further spreading of the lather is necessary since the curved edge 20 of the box-like member 26 moving over the face lubricates the skin just ahead of the razor.

While I have illustrated and described the preferred embodiment of my invention, it is to be understood that I do not limit myself to the precise construction herein disclosed and that various changes and modifications may

be made within the scope of the invention as defined in the appended claims.

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

1. A dispensing means for safety razors comprising a hollow handle having a movable spring-pressed sealing disk, said disk constituting a partition for dividing the handle into upper and lower chambers, said disk serving as the floor of the upper chamber for holding a supply of lather, a coil spring in the lower chamber urging said movable sealing disk upwardly, a post detachably connected to the handle, a flat hollow box-like member for holding and dispensing lather connected to the handle by said post, said box-like member having opposed lather dispensing slots, means of communication between the upper chamber and the hollow box-like member for supplying lather to the interior of said box-like member, said means of communication including a port leading from the top of said upper chamber, said post having a longitudinal bore communicating with the bore leading from the top of the upper chamber, and a diametral bore in the post communicating with said longitudinal bore, said diametral bore communicating at both ends with the interior of the box-like member, and manually actuated valve mechanism interposed between the bore leading from the upper chamber and the longitudinal bore in the post for controlling passage of lather through said bores.

2. A dispensing means for safety razors comprising a hollow handle closed at both ends, the inner closed end of the handle having a transverse bore therein, a movable spring-pressed sealing disk in the handle, said disk constituting a partition for dividing the handle into upper and lower chambers, said disk serving as the floor of the upper chamber for holding a supply of lather, a

coil spring in the lower chamber urging said movable sealing disk upwardly, a post detachably connected to the handle, a flat hollow box-like member for holding and dispensing lather, said box-like member having opposed lather dispensing slots, means of communication between the upper chamber and the hollow box-like member for supplying lather to the interior of the box-like member, said means of communication including a port leading from the top of said upper chamber, said post having a longitudinal bore communicating with the bore leading from the top of the upper chamber, and a diametral bore in the post communicating with said longitudinal bore, said diametral bore communicating at both ends with the interior of the box-like member, and manually actuated valve mechanism interposed between the bore leading from the upper chamber and the longitudinal bore in the post for controlling passage of lather through said bores, said valve mechanism including a spring-pressed pin slidably mounted in the transverse bore in the inner closed end of the handle, said pin having a transverse bore adapted to be moved into register with the bore leading from the upper end of the upper chamber, and an enlarged head on the outer end of said pin for manually actuating the same.

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