April 23, 1935. E. W. ERICSSON 1,998,452

SAFETY RAZOR

Filed Nov. 2, 1932

Fig. 1.

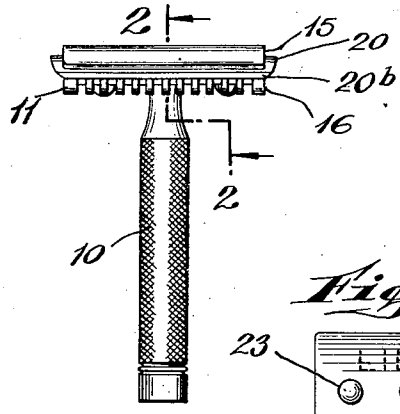


Fig. 2.

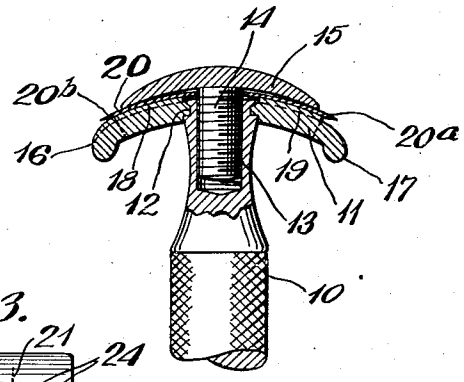


Fig. 3.



Fig. 4.

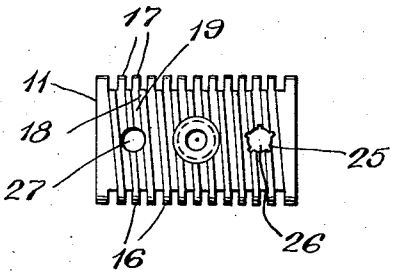


Fig. 5.

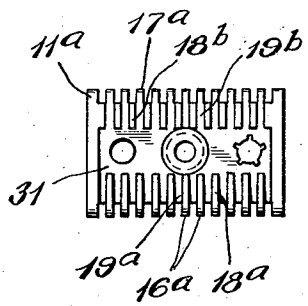


Fig. 6.

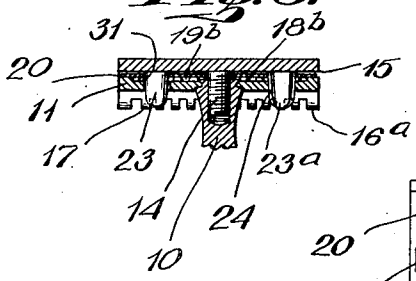
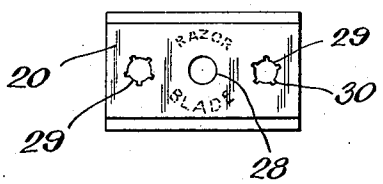


Fig. 7.



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SAFETY RAZOR

Eric W. Ericsson, Brooklyn, N. Y.

Application November 2, 1932, Serial No. 640,769

7 Claims. (Cl. 30—12)

This invention relates to safety razors and particularly to devices of this class employing double edged blades and a holder in which said blades are mounted; and the object of the invention is to provide a razor of the class specified wherein the holder is so constructed as to provide at one side edge thereof means for supporting one cutting edge of the razor blade in exposed relation with respect to the guard fingers of the holder and on the other side thereof in close proximity to said guard fingers so as to provide in one holder means for producing two distinct shaving operations, that is to say, a first over shave and a second over or finishing shave; a further object being to provide means for distinguishing one side edge of the holder from the other so as to designate to the user the distinct uses of the razor; a further object being to provide a razor blade having openings formed therein for mounting on the means for definitely fixing the side edges of the razor holder to distinguish the same from each other; a further object being to provide means accomplishing the results above defined wherein the cap of the blade holder may be applied to the guard plate in only one position; and with these and other objects in view, the invention consists in a razor of the class and for the purpose specified, which is simple in construction, efficient in use, and which is constructed as hereinafter described and claimed.

The invention is fully disclosed in the following specification, of which the accompanying drawing forms a part, in which the separate parts of my improvement are designated by suitable reference characters in each of the views, and in which:

Fig. 1 is a side view of a razor made according to my invention.

Fig. 2 is a section on the line 2—2 of Fig. 1.

Fig. 3 is a bottom plan view of the cap which I employ.

Fig. 4 is a plan view of the guard plate shown in Figs. 1 and 2.

Fig. 5 is a view similar to Fig. 4 showing a modification.

Fig. 6 is a longitudinal section through the razor showing the modification in Fig. 5; and,

Fig. 7 is a plan view of the razor blade which I employ.

In the accompanying drawing, 10 represents a handle member upon which a guard plate 11 has a swivel mounting as is indicated at 12, the upper end of the handle member having a threaded bore 13 to receive the central threaded stud 14 of the cap 15. As seen in Fig. 4 of the drawing, the guard plate 11 has on opposite side edges thereof spaced projecting guard fingers 16 and 17.

The guard fingers 16 extend upwardly and continue in ribs 18 arranged across the upper surface of the plate and terminating at the intersections or spaces between the fingers 17 at the opposite side thereof. In other words, said ribs are arranged in an angular relation and the spaces or grooves 19 between the ribs 18 are disposed intermediate the fingers 16 and extend onto and are continuous with the upper surfaces of the fingers 17 so that in mounting a razor blade 20 in the holder, one cutting edge of the blade will be disposed above and in spaced relation to the guard fingers 17 as seen at 20*a*, Fig. 2, whereas the other cutting edge will be arranged in close proximity to the ribs 18 or the upper surfaces of the guard fingers 16 as seen at 20*b*, Fig. 2. Thus, the edge 20*a* will constitute a first cutting edge and the edge 20*b* a second or finish cutting edge. To distinguish these edges one from the other, the upper surface of one side of the cap 15 will have the word "First" thereon as indicated at 21, Fig. 3, and the other side edge the word "Second", as indicated at 22, or other suitable markings may be employed to distinguish one edge from the other.

To properly position the cap 15 upon the guard plate 11, two alining pins 23, 23*a* are employed, the latter including five longitudinal ribs 24 which are adapted to enter corresponding recesses 25 formed in the aperture 26 of the guard plate 11. The other aperture 27 of said plate is plain.

By providing the arrangement of ribs 24 shown, it will be understood that the cap will have but one possible mounting in connection with the guard plate. At this time, it will be understood that various methods of governing the placement of the cap in one position with respect to the guard plate may be employed. The razor blade 20 includes a central opening 28 for receiving the stud 14 and has two other apertures 29 having radial cuts 30 to permit the mounting of the blade in two different positions upon the rib pin 23*a*.

The construction shown in Fig. 5 of the drawing differs from that shown in Fig. 4 simply in eliminating the diagonal arrangement of the ribs 18, and in providing the central portion of the guard plate 11*a* with a large recess 31 on the upper surface thereof and having the ribs 18*a* over the guard finger 16*a* and the intermediate

grooves 19a open into the recess 31, and the ribs 18b intermediate the guard fingers 17a and the recesses 19b in alinement with the guard fingers 17a enter into said recess 31. The large recess 31 will place the recesses 19a, 19b in communication with each other to permit the clearing out of lather in the use of the razor just as readily as in the construction shown in Fig. 4 of the drawing.

In the use of the razor it will be understood that the edge 20a disposed above the guard fingers 17 being free, will permit the performance of the first shaving operation in a quick, comfortable and assured manner, whereas the second or close shave may be performed with greater safety and assurance by the edge 20b disposed above the guard fingers 16.

By providing a razor of the class described, the user may perform the desired shaving operations more successfully, regardless of the characteristics of the skin or hair being shaven and twofold uses of the razor are provided. In this connection, it will be apparent that in some extreme cases, a user may find it desirable to use in some instances only one edge, but the holder is such as to adapt the razor for any and all uses and to suit the desires of all.

It will be understood that while I have shown certain details of construction for carrying my invention into effect, I am not necessarily limited to these details and various changes in and modifications of the construction herein shown and described may be made within the scope of the appended claims without departing from the spirit of my invention or sacrificing its advantages.

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

1. A razor of the class described comprising a guard plate and a cap, the guard plate being curved in cross sectional form and having a convex outer surface and a concave inner surface, the side edges of the guard plate terminating in longitudinally spaced guard fingers, the guard fingers at one side edge of the plate being continuous onto the upper surface thereof to form blade supporting ribs upon which one cutting edge of a double edged blade is adapted to rest in close proximity to said guard fingers, and the opposite side edge of said plate having raised ribs intermediate the guard fingers to dispose the upper surface of the guard fingers in spaced relation to the other cutting edge of the razor blade disposed thereover.

2. A razor of the class described comprising a guard plate and a cap, the guard plate being curved in cross sectional form and having a convex outer surface and a concave inner surface, the side edges of the guard plate terminating in longitudinally spaced guard fingers, the guard fingers at one side edge of the plate being continuous onto the upper surface thereof to form blade supporting ribs upon which one cutting edge of a double edge blade is adapted to rest in close proximity to said guard fingers, the opposite side edge of said plate having raised ribs intermediate the guard fingers to dispose the upper surface of the guard fingers in spaced relation to the other cutting edge of the razor blade disposed thereover, and the lower surface of the cap being convex in cross sectional form and having spaced blade alinement pins entering corresponding apertures in the plate, and one of said pins having an odd number of protruding ribs spaced circumferentially thereof and entering corresponding recesses in the plate to permit one attachment only of the cap with the plate.

3. A razor of the class described comprising a guard plate and a cap, the guard plate being curved in cross sectional form and having a convex outer surface and a concave inner surface, the side edges of the guard plate terminating in longitudinally spaced guard fingers, the guard fingers at one side edge of the plate being continuous onto the upper surface thereof to form blade supporting ribs upon which one cutting edge of a double edged blade is adapted to rest in close proximity to said guard fingers, the opposite side edge of said plate having raised ribs intermediate the guard fingers to dispose the upper surface of the guard fingers in spaced relation to the other cutting edge of the razor blade disposed thereover, and the recesses between the guard fingers at the first side edge of the plate being in transverse communication with the recesses in alinement with the guard fingers at the opposite side edge of the plate.

4. A razor of the class described comprising a guard plate and a cap, the guard plate being curved in cross sectional form and having a convex outer surface and a concave inner surface, the side edges of the guard plate terminating in longitudinally spaced guard fingers, the guard fingers at one side edge of the plate being continuous onto the upper surface thereof to form blade suspporting ribs upon which one cutting edge of a double edged blade is adapted to rest in close proximity to said guard fingers, the opposite side edge of said plate having raised ribs intermediate the guard fingers to dispose the upper surface of the guard fingers in spaced relation to the other cutting edge of the razor blade disposed thereover, the recesses between the guard fingers at the first side edge of the plate being in transverse communication with the recesses in alinement with the guard fingers at the opposite side edge of the plate, and the raised ribs at the second side edge of the plate being continuous with the guard fingers at the first side of the plate.

5. In a razor of the class described, a guard plate having longitudinally spaced guard fingers at opposed side edges thereof, the upper surface of said plate having transverse grooves, the grooves at one side edge of the plate being disposed intermediate the guard finger and at the other side of the plate being in alinement with and continuous with the upper surfaces of the guard fingers, and said grooves being intercommunicating transversely of the plate.

6. In a razor of the class described, a guard plate having longitudinally spaced guard fingers at opposed side edges thereof, the upper surface of said plate having transverse grooves, the grooves at one side edge of the plate being disposed intermediate the guard finger and at the other side of the plate being in alinement with and continuous with the upper surfaces of the guard fingers, said grooves being intercommunicating transversely of the plate, a cap detachable with respect to said plate and between which and the plate a razor blade is adapted to be supported, and means on the cap and plate for permitting one mounting only of the cap in connection with the plate.

7. In a razor of the class described, a guard plate having longitudinally spaced guard fingers at opposed side edges thereof, the upper surface of said plate having transverse grooves, the grooves at one side edge of the plate being dis-

posed intermediate the guard finger and at the other side of the plate being in alinement with and continuous with the upper surfaces of the guard fingers, said grooves being intercommunicating transversely of the plate, a cap detachable with respect to said plate and between which and the plate a razor blade is adapted to be supported, and means on the cap and plate for permitting one mounting only of the cap in connection with the plate, said last named means comprising a ribbed alinement pin on said cap and the plate having an aperture shaped to conform with the contour of said pin.

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