June 11, 1946. G. E. MIGNON 2,402,116

SAFETY RAZOR FRAME

Filed Feb. 23, 1944

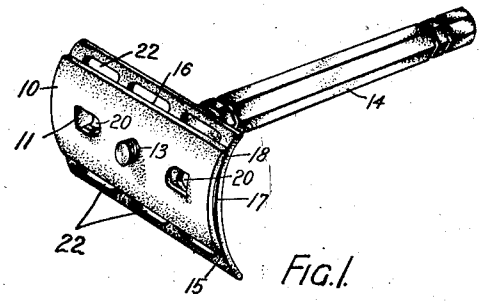


FIG. 1.

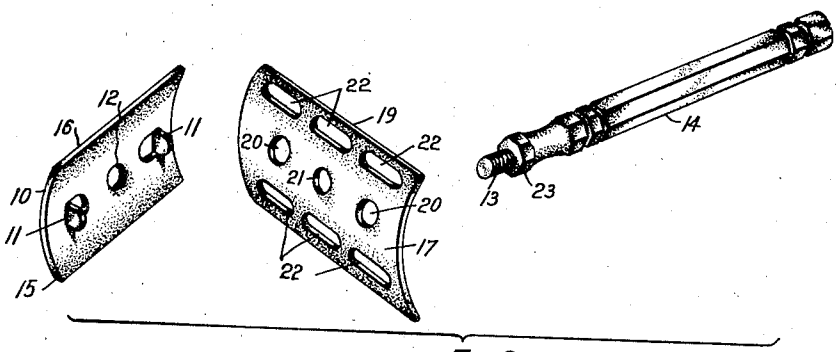


FIG. 2.

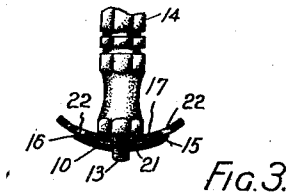


FIG. 3.

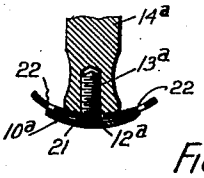


FIG. 5.



FIG. 4.

Inventor—
George Elwis Mignon,
by his Attorneys—
Howson & Howson

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UNITED STATES PATENT OFFICE

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SAFETY RAZOR FRAME

George Elvis Mignon, Sydney, New South Wales, Australia

Application February 23, 1944, Serial No. 523,589
In Australia August 13, 1943

3 Claims. (Cl. 30—70)

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This invention relates to safety razor frames of the type adapted to hold a double edge blade in operative position. The invention has been devised to provide a safety razor frame of this type having the blade keep and blade base made wholly or mainly of sheet metal which is formed into a novel shape by die stamping and the handle can also be made by automatic machinery. The several parts are so made that assembly operations in the manufacture of the safety razor frame are reduced to a minimum and a cheap and efficient article is produced. A further feature of the invention is in the formation of the blade keep whereby one edge of the blade held in the razor frame is more exposed than the other.

The invention is illustrated in the annexed drawing wherein Fig. 1 is a perspective view of the several parts assembled; Fig. 2 is a perspective view of the several parts separated; Fig. 3 is a fragmentary elevation partly in section showing how the blade keep and blade base are secured by the handle; Fig. 4 is a sectional elevation through the blade keep and the blade base showing a razor guide pin; Fig. 5 is a fragmentary elevation in section of a modification.

Referring to Figs. 1 to 4 the blade keep 10 is a rectangular stamping made arcuate; it has razor blade guide pins 11 formed by cutting U shaped slots therein and pressing out the metal tongues formed between the limbs of the U; it also has a centrally positioned hole 12 with a screw thread therein to take the screwed end 13 of a handle 14. One longitudinal edge 15 of this blade keep is chamfered and the other longitudinal edge 16 is set at an oblique angle. By this construction of the edges 15—16 one edge of a razor blade held by the blade keep is more exposed than the other. The edge most exposed may be used to shave a tough beard and the other edge used to shave a soft beard; or the different formation of the edges may be used as an indicator of the edge of the razor blade being used or previously used.

The blade base 17 is also a rectangular stamping made arcuate. The curvature of the crown of the blade base extending over the area contacted by that part of a razor blade pressed thereon by the blade keep 10 is slightly less than the curvature of the blade keep 10. From the longitudinal edge position of the blade keep 10 on the blade base (indicated at 18) to the edges 19 thereof the curvature is slightly greater than that of the blade keep. Holes 20 in the blade base take the guide pins 11 of the blade keep and

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there is a central clearance hole 21 through which the screwed end 13 of the handle passes. Near the edges 19 the blade base is slotted as shown at 22. The blade keep 10 extends approximately half way across these slots 22; they constitute passages through which shaving accumulations forming on the razor may pass.

Handle 14 is of metal or it has a metal screwed end 13 to home in the screw hole 12 of the blade keep 10. A shoulder 23 abuts the blade base 17 and so holds the several parts together.

It will be appreciated that the width of the blade keep 10 is slightly less than a razor blade. When a razor blade is clamped between the blade base and the blade keep the edges 15—16 of the latter press on the razor blade just clear of the cutting edges and hold such part of the razor blade firmly against the ridge formed at 18 on the blade base by the difference in curvature of the respective parts thereof. The edges of the razor blade are just short of the outer edges of the slots 22.

In the modification shown in Fig. 5 the blade keep 10a is made as described above with the exception that a screw 13a is permanently affixed in the hole 12a by riveting or otherwise. The handle 14a has a hole in the end thereof with a screw thread to take the screw 13a.

I claim:

1. A safety razor frame consisting of a blade keep being a rectangular stamping made arcuate and having razor blade guide pins formed by cutting U shaped slots in the blade keep and pressing out the metal tongues formed between the limbs of the U perpendicular to the surface of said keep; a blade base underlying said blade keep and of greater transverse width than said blade keep said blade base being a rectangular stamping made arcuate and having the curvature of the crown less than that of the blade keep and the curvature of the part projecting beyond the blade keep greater than that of the blade keep, said blade base having holes to take the razor blade guide pins and a plurality of longitudinal slots aligned in end to end relation adjacent the longitudinal edges thereof and having solid portions of said base between adjacent ends of said slots, said aligned slots being transversely overlapped by the longitudinal edges of said blade and blade keep which bear on said solid portions, said base having a hole to take a clamping screw; a handle and means whereby the blade keep the blade base and the handle are assembled in operative position.

2. A safety razor frame consisting of a blade

keep being a rectangular stamping made arcuate and having razor blade guide pins formed by cutting U shaped slots in the blade keep and pressing out the metal tongues formed between the limbs of the U perpendicular to the surface of said keep and having a hole between said slots with a screw thread therein, a blade base underlying said blade keep and of greater transverse width than said blade keep said blade base being a rectangular stamping made arcuate and having the curvature of the crown less than that of the blade keep and the curvature of the part projecting beyond the blade keep greater than that of the blade keep, said blade base having holes to take the razor blade guide pins and a plurality of longitudinal slots aligned in end to end relation adjacent the longitudinal edges thereof and having solid portions of said base between adjacent ends of said slots, said aligned slots being transversely overlapped by the longitudinal edges of said blade and blade keep which bear on said solid portions, said base having a hole to take a clamping screw; a handle having a screwed end adapted to pass through said blade base and to take in the screw thread in said blade keep, said handle also having a shoulder to abut said blade base.

3. A safety razor frame consisting of a blade keep being a rectangular stamping made arcuate and having razor blade guide pins formed by cutting U shaped slots in the blade keep and pressing out the metal tongues formed between the limbs of the U perpendicular to the surface of said keep, and having a screw projecting therefrom between said slots; a blade base underlying said blade keep and of greater transverse width than said blade keep said blade base being a rectangular stamping made arcuate having the curvature of the crown less than that of the blade keep and the curvature of the part projecting beyond the blade keep greater than that of the blade keep, having holes to take the razor blade guide pins and the said screw and a plurality of longitudinal slots adjacent the longitudinal edges and having solid portions of said base between adjacent ends of said slots, said aligned slots being transversely overlapped by the longitudinal edges of said blade and blade keep which bear on said solid portions, said base having a handle having a hole in the end thereof with a screw thread therein to take said screw on the razor blade keep.

GEO. E. MIGNON.