May 25, 1943. R. B. NUNNALLY 2,320,154

SAFETY RAZOR

Filed March 31, 1943

Fig. 1.

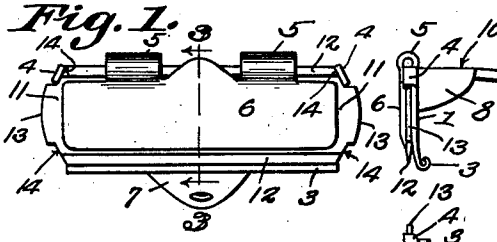


Fig. 2.

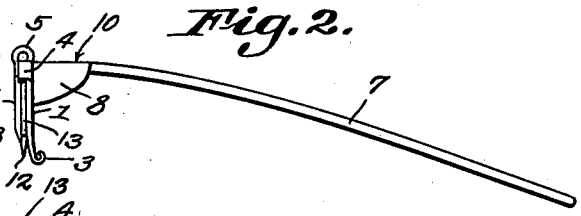


Fig. 3.

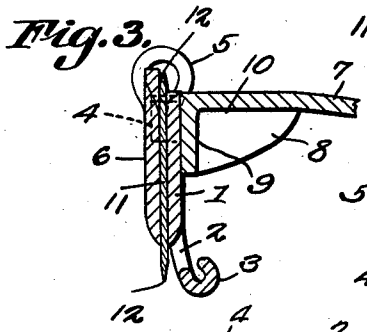
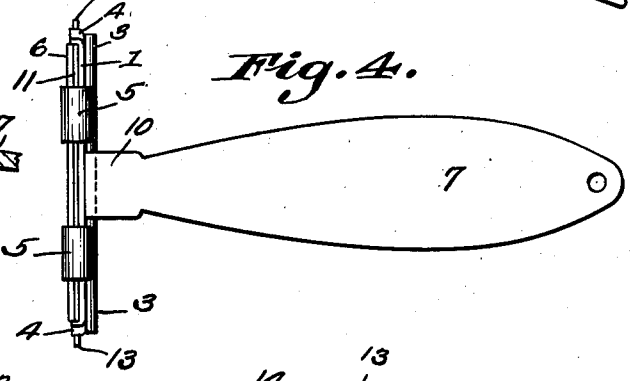


Fig. 4.



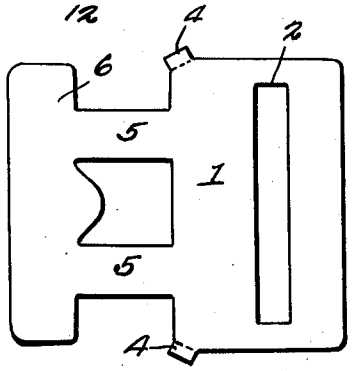


Fig. 5.

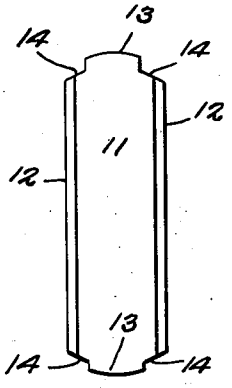


Fig. 7.

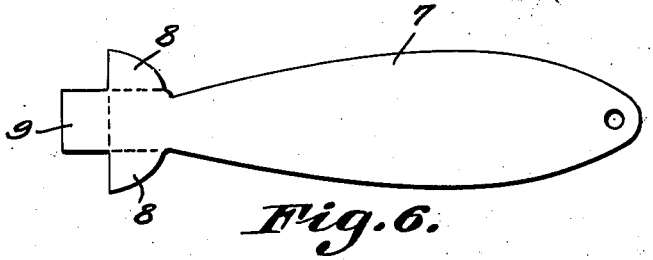


Fig. 6.

R. B. Nunnally
INVENTOR.

BY C. A. Snow & Co.

Patented May 25, 1943

2,320,154

UNITED STATES PATENT OFFICE

2,320,154

SAFETY RAZOR

Robert B. Nunnally, Harlingen, Tex.

Application March 31, 1943, Serial No. 481,340

6 Claims. (Cl. 30—62)

This invention relates to safety razors, one of the objects being to provide a simple and inexpensive structure which can be readily formed of sheet metal and, when properly shaped and assembled, will constitute an efficient holder for a double-edged blade.

A further object is to provide a safety razor which can be manipulated readily and will not easily get out of order.

It is also an object to provide a safety razor which can be readily cleaned and which acts to tightly grip the inserted razor blade without the necessity of utilizing supplemental fastening means such as set-screws, etc.

With the foregoing and other objects in view which will appear as the description proceeds, the invention consists of certain novel details of construction and combinations of parts hereinafter more fully described and pointed out in the claims, it being understood that changes may be made in the construction and arrangement of parts without departing from the spirit of the invention as claimed.

In the accompanying drawing the preferred form of the invention has been shown.

In said drawing

Figure 1 is a front elevation of the safety razor, a blade being shown positioned therein.

Figure 2 is a side elevation.

Figure 3 is an enlarged section on line 3—3, Fig. 1.

Figure 4 is a top plan view.

Figure 5 is a plan view of the blank from which the head of the safety razor is formed.

Figure 6 is a plan view of the blank from which the handle is formed.

Figure 7 is a plan view of the razor blade.

Referring to the figures by characters of reference, 1 designates a flat plate constituting the base of the head of the razor, this head being provided with an elongated transverse slot 2 adjacent to one edge and this slotted portion is gently curved, as indicated particularly in Fig. 3 and merges into a rolled or folded edge 3 constituting a combined guide and guard.

Those corners of the base remote from the slot 2 are formed with small ears 4 preferably perpendicular to the plate or base 1 but slightly converging away from the slotted portion.

Plate 1 is provided with substantially U-shaped flat springs 5 integral therewith and extending from the back or top edge of the base, this being the edge which extends from one ear 4 to the other. These springs are spaced from the ears 4 and are also spaced from each other and serve to connect the top edge of the base to a clamping plate 6 which is integral therewith and adapted normally to bear against and to cover most of the adjacent surface of the base.

The handle comprises a strip of sheet metal indicated at 7 which can be of any desired configuration and is provided at one end with side wings 8 and an end wing 9. These wings are adapted to be bent into positions at right angles to the adjacent portion of the handle 7 and along the lines indicated by broken lines in Fig. 6 so as thus to form a box-like structure indicated generally at 10. This is adapted to be joined to the center of the back of plate 1 by brazing or otherwise joining the wing 7 thereto. Thus a very substantial razor formed only of two pieces of material is provided.

The razor blade has been indicated at 11 and has two cutting edges 12. Wings or finger pieces 13 are extended from the ends of the blade and are located in the same plane therewith and the corners of the blade are beveled as at 14, these beveled corners extending from the wings to the adjacent cutting edges as shown in Fig. 7.

The blade is so proportioned that when one edge thereof is inserted upwardly between the clamping plate 6 and the base 1, it can be forced back so as to cause the advancing beveled corners 14 to wedge between the ears 4. This wedging action supplemented by the clamping action of the plate 6 will result in securely holding the blade in position. The wings or finger pieces 13 are extended beyond the sides of the razor and are held between a finger and the thumb of one hand while the blade is being inserted into the razor held in the other hand. When the blade is in proper position one of its cutting edges will be located adjacent to but spaced from the walls of the slot 2 while the other edge will be straddled by the springs 5. However the ears 4 and the wings or finger pieces 13 will prevent this latter edge from pressing back against the springs. Springs and top lugs serve as guards for the edge not being used.

When it is desired to remove the blade it is merely necessary to grasp the finger pieces 13 between the finger and thumb of a hand and then pull downwardly or forwardly so as to forcibly withdraw the blade from frictional contact with the ears 4 and with the clamping spring 6.

The stop ears 4 not only constitute means for permitting the blade to wedge therebetween but they also act to center the blade properly in the head so that there will be no danger of a pro-

truding corner at the active edge which might cut the user.

Importance is attached to the fact that the entire structure can be formed readily of sheet metal, can be easily assembled, and, consequently, can be made at low cost. It is also possible to make the razor of sheet plastic material so that only the blade need be made of metal.

What is claimed is:

1. A razor blade including a base having a transverse slot adjacent to one edge thereof, said edge constituting a guard, a clamping plate, springs integral with and connecting said plate and base at one edge for urging the plate normally against the base, centering elements extending from those corners of the base remote from the slot, and a handle extending from the base.

2. A safety razor formed of sheet material and including in a single blank a base having a transverse slot adjacent to one edge, a clamping plate, springs integral with and connecting the base and plate at those edges thereof remote from the slot, said springs constituting means for urging the plate normally against the base, centering ears on the base at those corners thereof remote from the slot and beyond the clamping plate, and a handle formed in a single piece of sheet material joined to and extending from the base.

3. A safety razor formed of sheet material and including in a single blank a base having a transverse slot adjacent to one edge, a clamping plate, springs integral with and connecting the base and plate at those edges thereof remote from the slot, said springs constituting means for urging the plate normally against the base, centering ears on the base at those corners thereof remote from the slot and beyond the clamping plate, and a handle formed in a single piece of sheet material joined to and extending from the base, said plate and ears constituting means for frictionally engaging and holding a razor blade insertible between the base and plate and against the ears.

4. A safety razor formed of sheet material and including in a single blank a base having a transverse slot adjacent to one edge, a clamping plate, springs integral with and connecting the base and plate at those edges thereof remote from the slot, said springs constituting means for urging the plate normally against the base, centering ears on the base at those corners thereof remote from the slot and beyond the clamping plate, and a handle formed in a single piece of sheet material joined to and extending from the base, said plate and ears constituting means for frictionally engaging and holding a razor blade insertible between the base and plate and against the ears, the said springs being positioned for cooperation with the ears to constitute guards for that edge of the inserted plate remote from the slot.

5. In a safety razor the combination with a two-edged blade having beveled corners and finger pieces extending from the ends of the blade and in the same plane therewith, and a razor head including a base of sheet material, stop ears extending from one surface of said base along converging lines, a clamping plate, and springs integral with the base and clamping plate for holding said clamping plate normally pressed toward the base, said base and plate cooperating to grip the inserted blade and said ears constituting stops between which the beveled corners adjacent to one edge of the blade can be wedged, the springs and ears providing a guard for said head, and a handle extending from the base.

6. In a safety razor the combination with a two-edged blade having beveled corners and finger pieces extending from the ends of the blade and in the same plane therewith, and a razor head including a base of sheet material, stop ears extending from one surface of said base along converging lines, a clamping plate, and springs integral with the base and clamping plate for holding said clamping plate normally pressed toward the base, said base and plate cooperating to grip the inserted blade and said ears constituting stops between which the beveled corners adjacent to one edge of the blade can be wedged, the springs and ears providing a guard for said head, and a handle extending from the base, said handle being formed in a single piece of sheet material having connected wings at one end one of which is joined to the base.

ROBERT B. NUNNALLY.