Nov. 26, 1935. S. C. HOOD 2,022,598

SAFETY RAZOR

Filed July 24, 1934

Fig. 1.

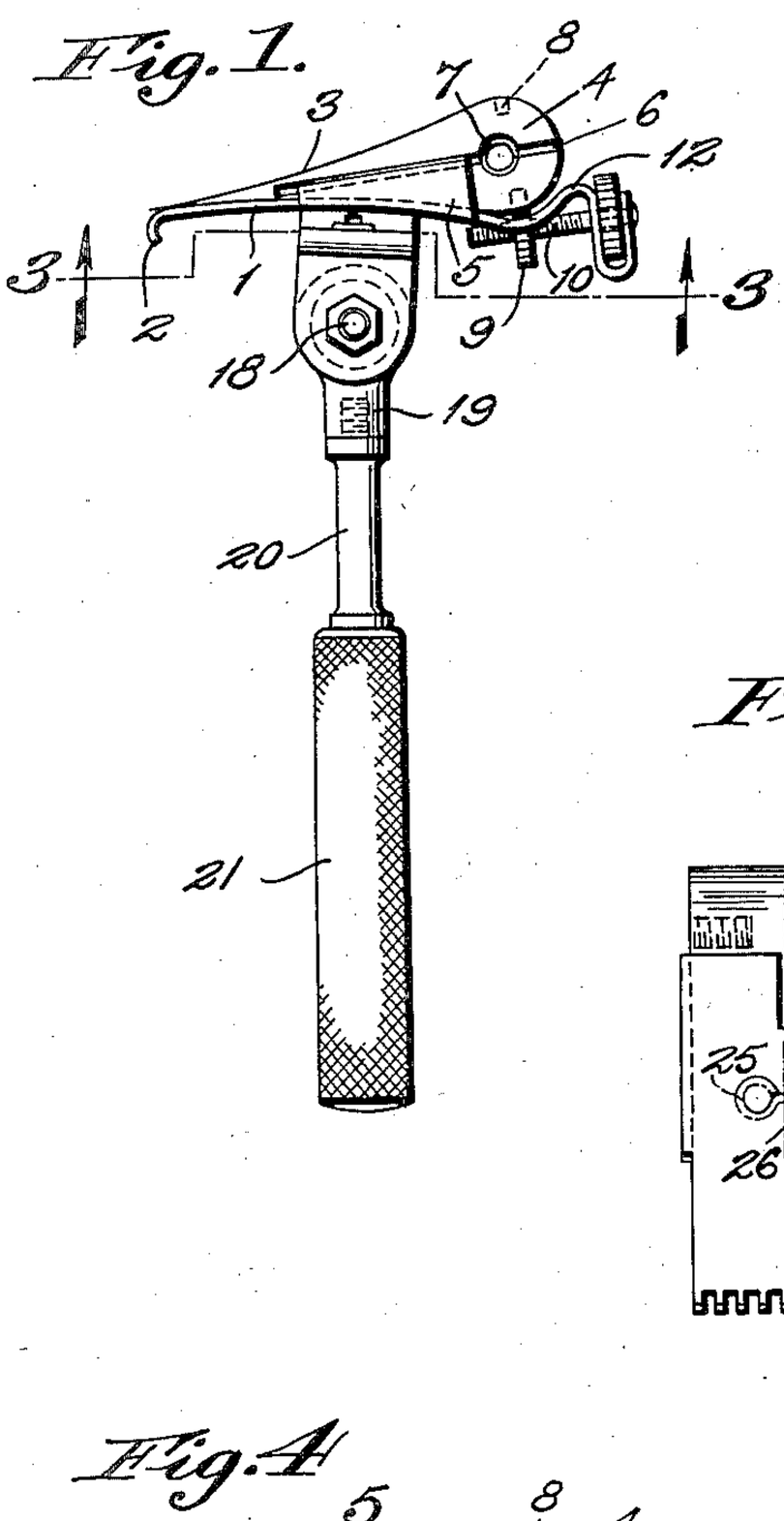


Fig. 2.

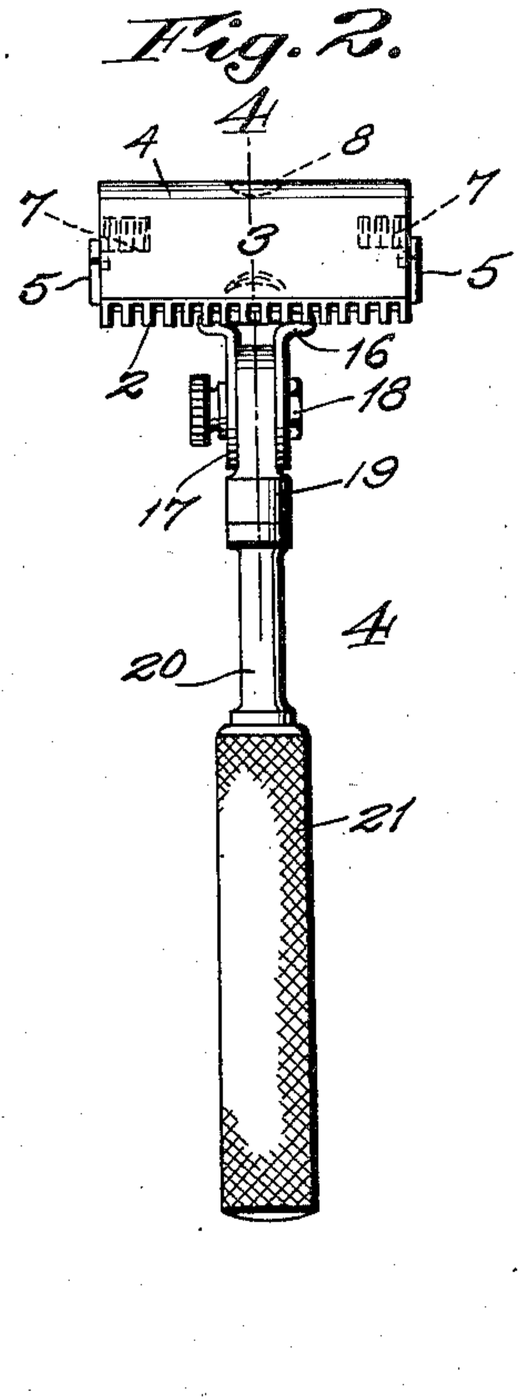


Fig. 3.

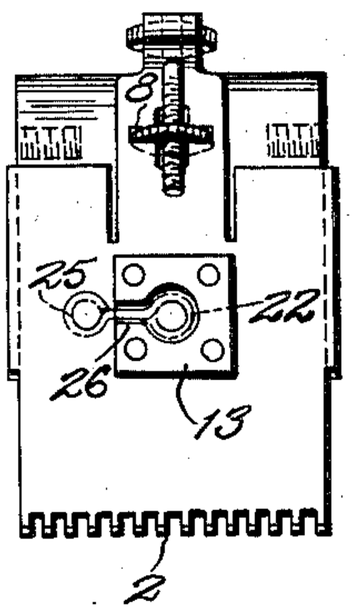


Fig. 4

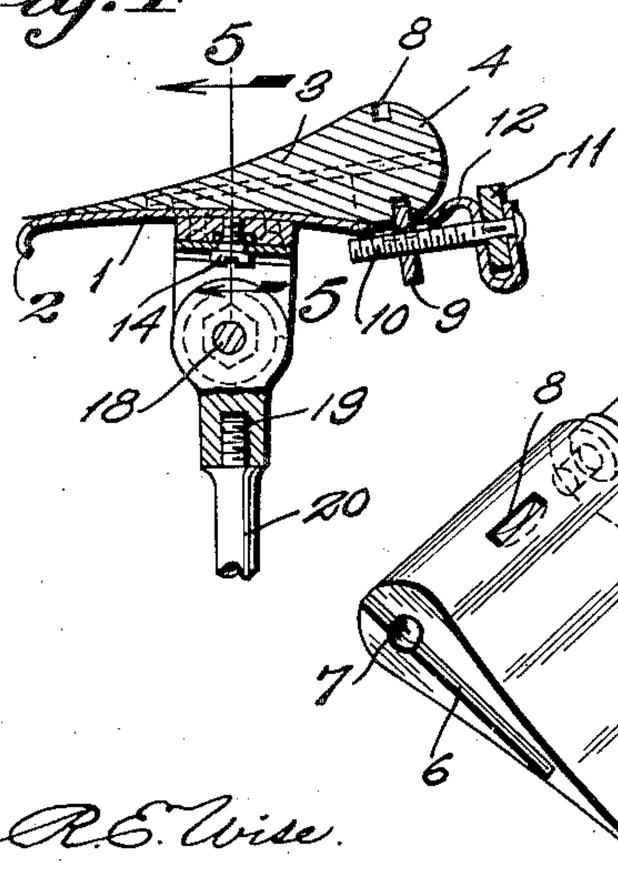


Fig. 5.

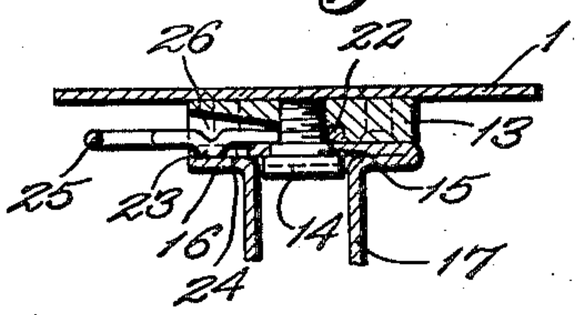


Fig. 6.

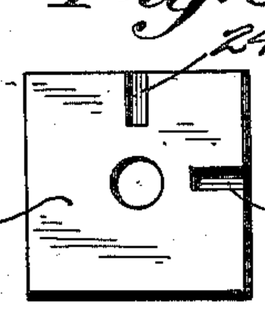
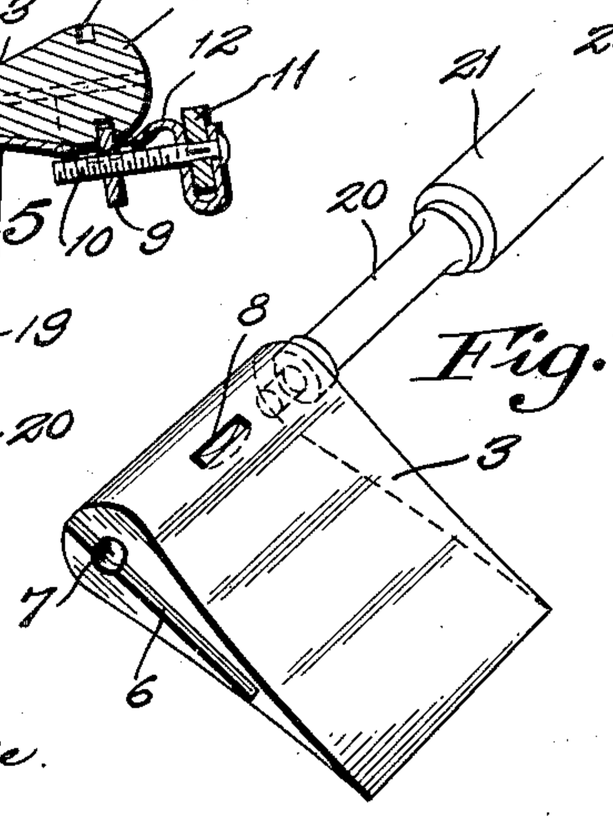


Fig. 7.



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2,022,598

SAFETY RAZOR

Samuel C. Hood, Gulfport, Miss.

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2 Claims. (Cl. 30—64)

This invention relates to safety razors and its general object is to provide a safety razor having a handle which is adjustable to various angles with respect to the blade, as well as in a line parallel therewith, so as to meet every existing shaving condition, and the blade is likewise adjustable with respect to its guard and all of the adjustments can be made in an easy and expeditious manner with very little effort.

A further object of the invention is to provide a safety razor that includes a permanent blade which can be sharpened and honed in the same manner as a straight razor, and is removable from the razor for that purpose.

Another object of the invention is to provide a safety razor and a blade therefor of the character set forth, that is simple in construction, inexpensive to manufacture and extremely efficient in use and service.

This invention also consists in certain other features of construction and in the combination and arrangement of the several parts, to be hereinafter fully described, illustrated in the accompanying drawing and specifically pointed out in the appended claims.

In describing my invention in detail, reference will be had to the accompanying drawing wherein like characters denote like or corresponding parts throughout the several views, and in which:

Figure 1 is a side elevation of a safety razor and blade constructed in accordance with the present invention.

Figure 2 is a front view thereof.

Figure 3 is a sectional view taken approximately on line 3—3 of Figure 1, looking in the direction of the arrows.

Figure 4 is a sectional view taken approximately on line 4—4 of Figure 2.

Figure 5 is a sectional view taken approximately on line 5—5 of Figure 4, looking in the direction of the arrows.

Figure 6 is a top plan view of the handle clamp.

Figure 7 is a perspective view showing the manner of applying the handle to the blade for sharpening and honing the latter.

Referring to the drawing in detail, the reference numeral 1 indicates the guard frame having guard fingers 2 formed on one edge thereof and is shaped to conform with the sides of the blade 3 which as shown includes substantially concaved sides merging into a cutting edge at one end of the blade while its opposite end is relatively large and rounded as at 4.

Formed on the sides of the guard frame 1 are flange members 5 which are disposed in opposed relation with respect to each other, and the flanges are inturned to be received in grooves 6 arranged in the side walls of the blade as best shown in Figure 1, the grooves extending longitudinally of the side walls and the latter have arranged therein threaded bores 7 which are disposed adjacent to the rounded ends of the blade as best shown in Figure 7. It will be further noted that the enlarged portion of the blade has disposed therein recesses 8 which are arranged midway the sides of the blade and either one of these recesses is adapted to receive a nut 9 having a knurled periphery and which is threadedly secured on a screw 10, the latter having a head 11 disposed between a pair of spaced parallel arms of a bracket 12 which is formed on the rear end of the guard frame and extends rearwardly therefrom, as best shown in Figure 3 and the bracket 12 is provided with a slot through which extends the nut 9. By this construction, it will be apparent that the blade is adjustable on the frame 1 and such adjustment is accomplished merely by rotating the head 11 of the screw 10 which will cause the nut 9 to move longitudinally on the screw 10 to carry the blade accordingly, therefore the blade is adjustable with respect to the guard fingers.

Secured to the outer face of the guard frame is a block 13 that is provided with a centrally disposed threaded bore to receive a screw 14 the latter having a collar portion 15 to rotatably receive the body portion 16 of the handle clamp that includes a pair of parallel arranged arms 17 having openings arranged therein to receive a bolt and nut connection 18 which secures the stub portion 19 of a handle 20 between the arms, the stub portion 19 having flattened sides to accommodate the arms as clearly shown in Figure 2.

The handle 20 includes a gripping portion 21 and a relatively narrow portion above the gripping portion and the narrow portion has a threaded stud formed thereon to be received in a threaded bore in the stub portion 19.

The bolt of the bolt and nut connection 18 provides a bearing for the handle so that the latter can be disposed at various angles in a vertical plane with respect to the blade 3, but I also provide means whereby the handle can be adjusted in a horizontal plane with respect to the blade, so that the handle can be disposed in longitudinal alignment with the blade, and this adjustment is brought about by the fact that the body portion 16 is mounted for rotation on the collar portion 15 of the screw 14. In order to hold the handle clamp in two of its adjusted

positions, I employ a spring element having an eyed end 22 that is received by the screw 14 and the spring element is bent midway its ends to provide an ear 23 to be disposed in either of the slots 24 arranged in the body portion 16 as clearly shown in Figure 6. The spring element is likewise provided with an eye 25 on its free end and this eye acts in the capacity as a handle in removing the ear 23 out of the slots 24, and it will be noted from Figure 5 that the block 13 is recessed as at 26 to allow for the movement of the spring element, as will be apparent.

When it is desired to sharpen the blade 3, the main portion of the handle 20 is removed from the stub portion thereof, and the stud of the main portion is threadedly secured in one of the threaded bores 7 which of course facilitates the easy sharpening or honing of the blade.

From the above description and disclosure of the drawing, it will be obvious that I have provided a safety razor that includes what may be termed a permanent blade in that it is very similar to the blade of a straight razor, and the handle of my safety razor can be adjusted to meet every existing shaving condition, while the blade is adjustable with respect to its guard to regulate the cutting condition of the blade as desired.

It is thought from the foregoing description that the advantages and novel features of my invention will be readily apparent.

I desire it to be understood that I may make changes in the construction and in the combination and arrangement of the several parts, provided that such changes fall within the scope of the appended claims.

What I claim is:

1. A safety razor including its blade and comprising a frame, guard fingers on the frame, means carried by the frame and received by the blade for adjusting the latter with respect to the guard fingers, means included in the frame and blade to guide the latter during adjustment, a block secured to the frame, a handle clamp including a body pivotally secured to the block and having slots therein disposed at right angles with respect to each other, a handle having pivotal connection with the clamp for adjustment at various angles with respect to the frame, said handle being adjustable about its axis by the rotation of the clamp on the block, handled spring means carried by the block and receivable in either slot to hold the handle against movement about its axis, and means for holding the handle against angular adjustment.

2. A safety razor including its blade and comprising a frame, said blade having slotted sides and terminating at one end in a cutting edge and its opposite end being rounded with recesses arranged on the upper and lower sides thereof, guard fingers formed on the forward edge of the frame, a bracket extending rearwardly and centrally from the rear edge and including a U-shape member, headed screw means carried by the frame with the head confined between the arms of the U-shape member and including a travelling nut received in either recess of the blade to adjust the latter with respect to the guard fingers upon rotation of the screw means by its head, means formed on the frame and receivable in the slots to guide the blade, a detachable handle having connection with the frame, means for adjusting the handle about its axis and at various angles with respect to the blade, and said blade and handle including means for directly attaching the handle to the blade when the latter is removed from its frame for sharpening and honing the same.

SAMUEL C. HOOD.