J. W. FISCHER.

SAFETY RAZOR.

APPLICATION FILED OCT. 5, 1920.

1,425,463. Patented Aug. 8, 1922.

Fig. 1.

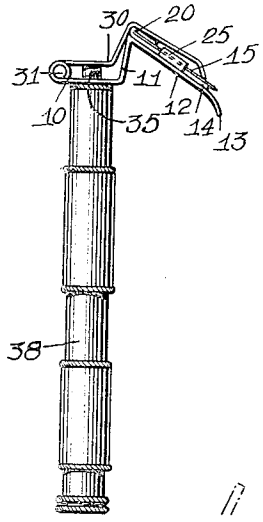


Fig. 2.

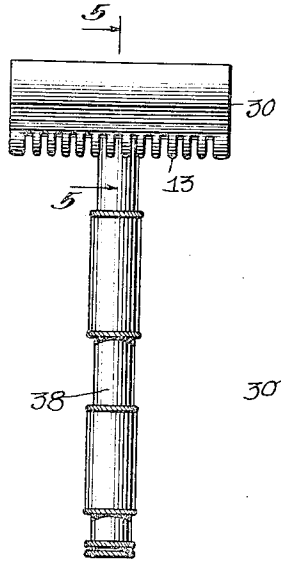


Fig. 3.

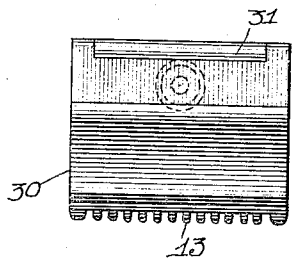


Fig. 4.

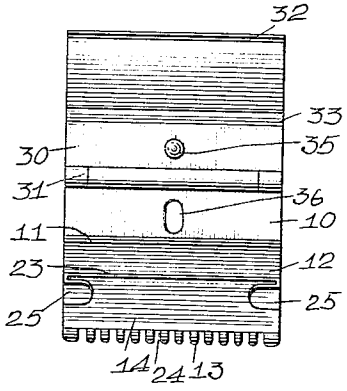


Fig. 5.

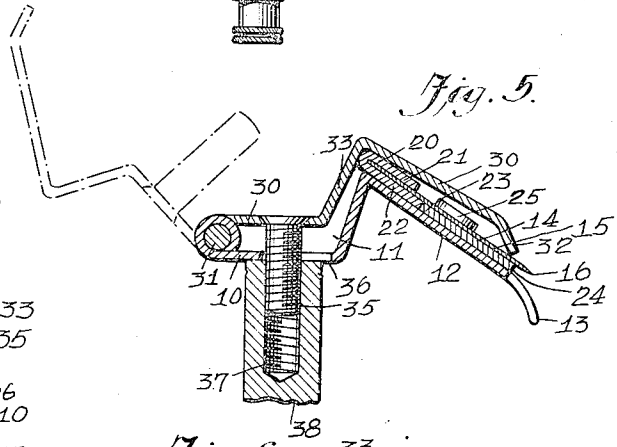


Fig. 6.

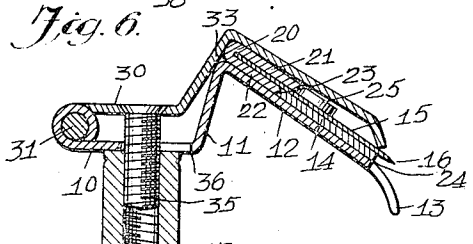
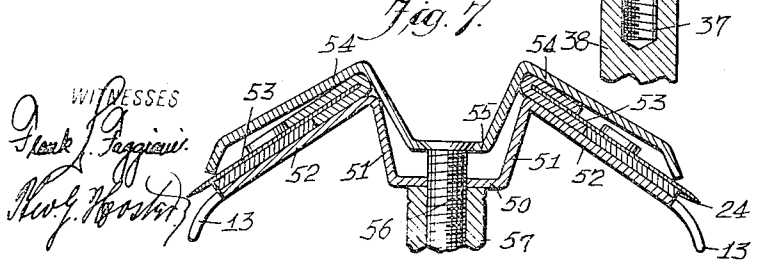


Fig. 7.



WITNESSES

Frank J. Faggioni.

Rud. J. Forster

INVENTOR

JOSEPH W. FISCHER

BY Munn & Co

ATTORNEYS

UNITED STATES PATENT OFFICE.

JOSEPH WILLIAM FISCHER, OF BROOKLYN, NEW YORK.

SAFETY RAZOR.

1,425,463. Specification of Letters Patent. Patented Aug. 8, 1922.

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To all whom it may concern:

Be it known that I, JOSEPH W. FISCHER, a citizen of the United States, and a resident of the city of New York, borough of Brooklyn, in the county of Kings and State of New York, have invented a new and Improved Safety Razor, of which the following is a full, clear, and exact description.

The invention relates to safety razors having a hinged clamping member for holding the blade under tension.

The object of the invention is to provide a new and improved safety razor arranged to permit of conveniently opening it for cleaning after a shave and for inserting the blade.

Another object is to permit of holding the blade in position for either an ordinary or a close shave.

With these and other objects in view, the invention consists of certain novel features of construction as hereinafter shown and described and then specifically pointed out in the claims.

A practical embodiment of the invention is represented in the accompanying drawings forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the views.

Figure 1 is a side elevation of the improved safety razor:

Figure 2 is a front elevation of the same;

Figure 3 is a plan view of the same;

Figure 4 is a similar view of the same with the clamping member in open position and the blade removed;

Figure 5 is an enlarged cross section of the safety razor with the blade in position for an ordinary shave;

Figure 6 is a similar view of the same with the blade in position for a close shave; and

Figure 7 is a similar view of a modified form of the improved safety razor.

The base 10 of the safety razor shown in Figures 1 to 6 is provided at one side with an upwardly extending portion 11 from which extends outwardly and downwardly a blade supporting member 12 terminating at its free end in the usual guard 13. The supporting member 12 is provided on its upper face with a raised portion 14 adapted to support the blade 15 having the usual cutting edge 16 projecting beyond the outer edge of the raised portion 14 at the base of the guard 13. The blade 15 is provided with a back 20 formed of a single piece of metal doubled up to provide two holding members 21 and 22 between which is held the rear portion of the blade 15. It is understood that the rear portion of the blade 15 may be clamped, soldered or otherwise fastened between the members 21 and 22 of the back 20 so that the latter forms an integral part of the razor blade 15. The members 21 and 22 of the back 20 are of different width, that is, the member 21 is narrower than the member 22, as will be readily understood by reference to Figures 1, 5 and 6. Either of the members 21, 22 is adapted to rest on the supporting member 12 in the rear of the raised portion 14 (see Figures 5 and 6), and the forward edge of the corresponding member 21, 22 then abuts against the rear edge or shoulder 23 of the raised portion 14. It will be noticed that when the member 22 is in supporting position, as shown in Figure 5, then the cutting edge 16 projects up a short distance beyond the outer edge or shoulder 24 of the raised portion 14 to permit of using the safety razor for an ordinary shave. When the blade 15 is placed in a reversed position on the safety razor, as shown in Figure 6, then the member 22 rests on the supporting member 12 and abuts against the shoulder 23 thus projecting the cutting edges 16 a considerable distance beyond the outer edge 24 of the raised portion 14 to permit the user to make a close shave. The raised portion 14 is provided at its sides with guide members 25 to hold the blade 15 against sidewise movement on the raised portion 14 of the supporting member 12.

In order to place the razor blade 15 under tension, adjacent the cutting edges 16 and particularly above the raised portion 14 near the outer edge thereof, use is made of a clamping plate 30 connected by a hinge 31 with the base 10 on the side opposite the one from which extends the portion 11. The clamping plate 30 has its free end 32 disposed angularly to engage the razor blade 15 adjacent the cutting edge 16, and the said plate 30 is provided with a cam portion 33 adapted to engage the back 20 to hold the corresponding back member 21 or 22 against the shoulder 23 of the raised portion 14. The clamping plate 30 is provided adjacent the hinge 31 with a screw 35 which extends through a slot 36 formed in the base 10, and on the said screw 35 screws the threaded socket 37 of a handle 38 adapted to abut

against the under side of the base 10 to draw the clamping plate 30 downward into engagement with the razor blade 15 and the back 20, as will be readily understood by reference to Figures 1, 5 and 6. It will be noticed that when the handle 38 is unscrewed from the screw 35 then the clamping plate 30 can be readily swung into open position, as shown in Figure 4 and in dotted lines in Figure 5, to permit of conveniently removing the blade 15 from the supporting member 12 and placing it in position thereon with either member 21 or 22 downward in engagement with the supporting member 12 and the shoulder 23 of its raised portion 14. It is understood that when the handle 38 is screwed on the screw 35 the forward end of the razor blade 15 is placed under tension and the back 20 is pushed outward by the cam portion 33 to securely hold the razor blade in position on the supporting member 12.

In the modified form shown in Figure 7, the safety razor is made double to accommodate two razor blades, of which one may be placed in position for an ordinary shave and the other for a close shave, as shown in the said figure, but both blades may be placed in position for a close shave or for an ordinary shave. The base 50 of this safety razor is provided at opposite sides with two raised portions 51 terminating in supporting members 52 for supporting two razors 53 and holding the same in place by clamping members 54 having a common base 55 carrying the screw 56 screwing in the handle 57. Thus instead of being hinged the clamping members 54 are disconnected from the base 50 but are drawn into position on screwing up the handle 57, the same as when screwing up the handle 38. The detail construction of the parts of the double razor shown in Figure 7 is the same as above described relative to the razor illustrated in Figures 1 to 6, and hence further description of the same is not deemed necessary.

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

1. In a safety razor, a base provided with a supporting member having a raised portion terminating short of its rear edge, a blade adapted to rest upon the raised portion and provided with a back having members of different widths overlying the blade, the members of the back being of the same thickness as the raised portion and either adapted to rest on the supporting member and abut against the rear end of the said raised portion, a clamping member engaging a back member of the blade and the blade adjacent to its cutting edge, means for securing the clamping member in position, and a handle for supporting the base.

2. In a safety razor, a base provided with a supporting member having a raised portion terminating short of its rear edge, a blade resting upon the raised portion and provided with a back having members of different widths overlying the blade, the members of the back being of the same thickness as the raised portion and either adapted to rest on the supporting member and abut against the rear end of the said raised portion, a clamping member hinged to the base and engaging a back member of the blade and the said blade adjacent its cutting edge, a handle and means for securing the clamping member in position and the handles to the base.

3. In a safety razor, a base provided with a blade supporting member having a raised portion provided with a shoulder, a blade provided with a back, the latter being made of a doubled-up piece of material forming two members between which the rear portion of the blade is held, either of the said blade back members being adapted to rest on the said supporting member and abut against the shoulder thereof, a clamping member hinged on the said base and adapted to engage with its free end the said blade opposite the raised portion of the supporting member, the said clamping member having a cam portion adapted to abut against the blade back to hold the corresponding blade back member against the said shoulder, and a handle supporting the said base and connected with the said clamping member to hold the latter in closed position.

4. In a safety razor, a base having angularly arranged members, one of which terminates in a guard and is provided with a raised portion terminating short of its rear end, a blade resting on the raised portion and provided with a back having members of different widths overlying the blade, the members of the back being of the same thickness as the raised portion and either adapted to engage the rear end of the raised portion, an angular clamping member hinged to the base and engaging the rear edge and one face of the back of the blade and the said blade adjacent to its cutting edge, a handle, and a screw passing through the clamping member and the base into the handle.

JOSEPH WILLIAM FISCHER.