March 10, 1936. J. H. SCHUSTER 2,033,307

HANDLE ATTACHMENT FOR SAFETY RAZORS

Filed April 20, 1934

Fig. 1.

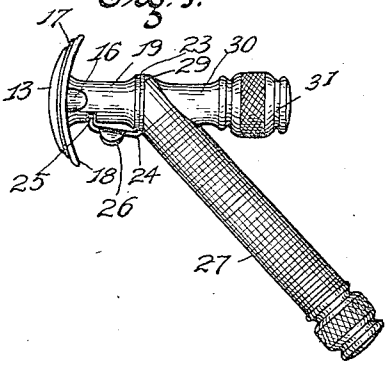


Fig. 2.

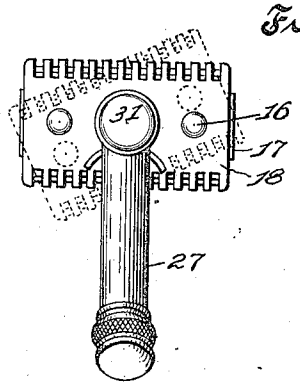


Fig. 3.

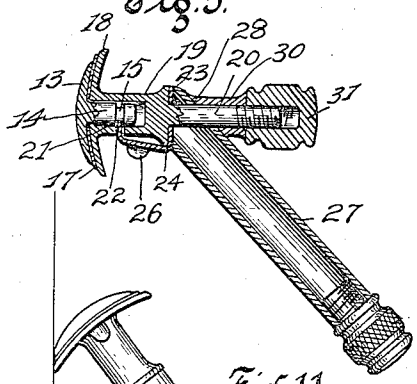


Fig. 4.

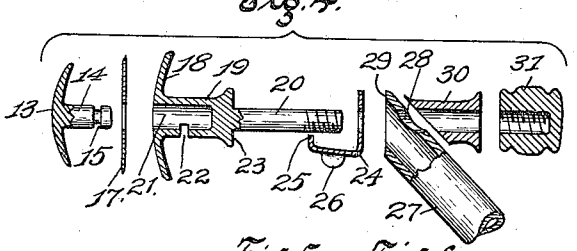


Fig. 5.

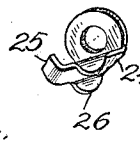


Fig. 6.

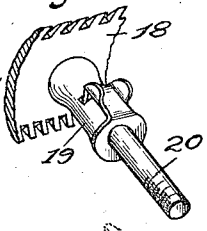
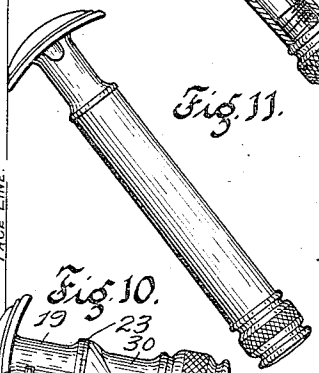


Fig. 11.



FACE LINE.

Fig. 12.

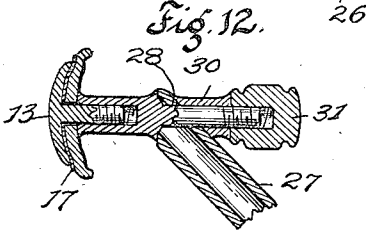


Fig. 10.

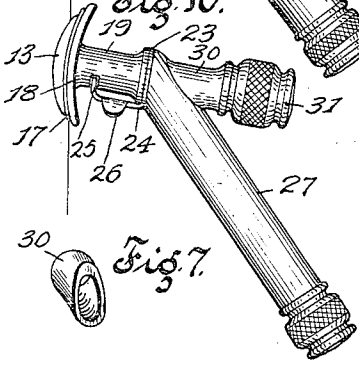


Fig. 8

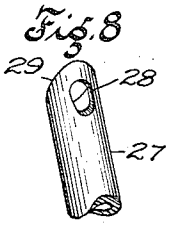


Fig. 9.

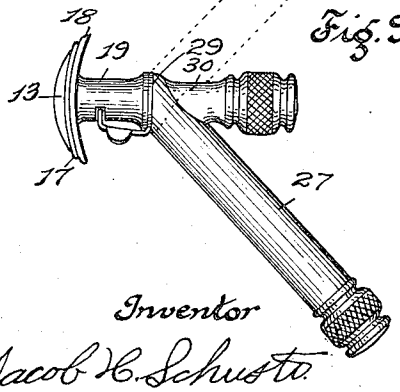


Fig. 7.

Inventor

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UNITED STATES PATENT OFFICE

2,033,307

HANDLE ATTACHMENT FOR SAFETY RAZORS

Jacob H. Schuster, St. Louis, Mo.

Application April 20, 1934, Serial No. 721,580

2 Claims. (Cl. 30—89)

This invention relates to improvements in safety razors especially in handle attachment thereto, and has for its object a handle so arranged as to permit the razor head to be adjusted to any tilted position, at the same time the handle being arranged at an angle or at an angular position in relation to the head so as to permit the head to snug closely to the face causing a cutting action instead of a scraping action.

A further object is to arrange the handle positioned angular to the head and spaced therefrom by an intermediate stub or spacer, thereby bringing the handle a reasonable distance from the head providing sufficient room for the hand by which the handle is gripped.

Another feature is the manner of attaching the handle to the head and retaining the same in its adjusted set position, and the mechanism for readily and easily removing and replacing the blade from and in the head without unscrewing or disconnecting the handle.

The essential feature of the invention is to construct a safety razor with its blade supporting head arranged at an angle to the handle, and to permit the head to be shifted to various tilting positions, whereby a cutting action is obtained, instead of a mere scraping or hoe like action.

Another feature is, that the handle may be attached to the ordinary standard razor without interference with the construction of the head, yet placing the handle on a suitable angle which the standard razor is without equipment.

Figure 1 is a side view of my complete razor.

Figure 2 is a front view of the same.

Figure 3 is a vertical central sectional view.

Figure 4 is a central sectional view of the several members constituting the razor in a position ready to be assembled.

Figure 5 is a detail perspective view of the locking clamp made use of for securing the head together.

Figure 6 is a detail perspective view of the outer member of the razor head showing the locking clamp in position thereon.

Figure 7 is a detail perspective view of the nipple made use of.

Figure 8 is a detail perspective view of one end of the handle with a part broken away.

Figure 9 is a side view of the razor showing in dotted lines the shifted position of the handle.

Figure 10 is a side view of the razor showing the position of the head relative to the face causing a straight cutting action.

Figure 11 is a side view of the ordinary construction or straight handled razor showing its shaving position when its handle is in the same angular position.

Figure 12 is a central sectional view illustrating how the handle may be applied to the ordinary construction of razor head.

In the general construction of my improved razor, I provide a head constructed of an outer member 13, having a central stud 14, the same provided with a circumferential groove 15, this outer member is also provided with a pair of lugs 16, for the retention of the blade.

Against the inner surface of the outer member and over the stud and lugs is placed the razor blade 17.

I also provide an inner member 18, the same having a central stem 19 terminating into an externally screw threaded trunnion 20, and in the body of the stem 19 is formed a bore 21 for the reception of the stud 14 of the outer member, and in the surface of the stem is formed a cross slot 22 positioned to correspond with the circumferential groove 15 of the stud.

Against the shoulder 23 and over the trunnion 20 is slipped a clamping member 24 the same being of spring material and sufficiently bent at approximately right angles to reach the slot and its forward end is provided with a lip 25 designed to pass through the slot 22 and extend into the circumferential groove 15 thereby retaining the members in locked position. The sides of the clamp are provided with ears 26 which when contacted with by the fingers and pressed upon will release the connection and the outer member and blade can be readily removed.

Over the trunnion 20 is slipped the handle 27 the same provided with a bore 28 and its surface 29 brought in contact with the clamp 24 resting against the shoulder 23 of the stem.

Over the trunnion and contacting with the handle 27 is placed a nipple 30 and in turn there is placed over the trunnion and against the nipple an internally screw threaded locking nut 31.

As illustrated in Figure 4, the several parts comprising the razor are in position ready to be assembled, and when so assembled the parts will assume the position as shown in Figure 3.

In Figure 12 I show the ordinary razor head, and in this construction the members comprising the head are screwed together, to this head I can apply my specially constructed handle, nipple and lock nut which will give the required angle of the handle to the head, in order to produce the proper cutting effect against the face of the user.

Where the straight handle razor is used as illustrated in Figure 11, and in order to obtain a cutting action, and the head positioned relative to the face as shown in Figure 10, the user will necessarily have to raise his arm at approximately right angles to the face which position is unnatural and awkward, but if held in the position as shown in Figure 11, the razor will cause a scraping and irritating action.

By positioning the razor handle relative to the head as illustrated in Figure 1, the blade will naturally rest against the face with a straight cutting position, and the handle being the natural position to the movement of the arm when in the act of shaving.

In addition to the position of the handle relative to the head, I may adjust or tilt the head in either position as that shown by dotted lines in Figure 2, this angular position of the blade will create a cutting action instead of scraping.

I do not wish to limit myself to this precise construction as modified means may be used so long as they are within the scope of the invention.

Having fully described my invention what I claim is:

1. A safety razor of the character described, comprising an outer member, a stud formed thereon which stud is provided with a circumferential groove, a razor blade, an inner member having a centrally located stem the same provided with a shoulder, and a cross slot, a clamping member supported by the inner member and its free end designed to fit into the cross slot and into the circumferential groove of the stud of the outer member, a handle having its free end beveled and provided with a bore, the beveled end designed to contact with the shoulder of the stem of the inner member and clamping member, a nipple, and a lock nut, all when assembled together forming a complete razor with the handle arranged at an angle to the head.

2. A razor of the safety type comprising a razor blade supporting head the same composed of an outer and an inner member and between which is clamped the razor blade, the outer member having a stud provided with a circumferential groove, said stud fitting into a sleeve formed on the inner member which sleeve is provided with a cross groove in relative position with the circumferential groove of the stud, a clamping member carried by the inner member its free end designed to fit into the cross groove and communicate with the circumferential groove of the stud, a handle having its one end arranged at a bevel, said bevel surface contacting with the clamping member placing the handle at an angle relative to the head, a nipple, and a locking nut by which the parts are secured in adjusted position.

JACOB H. SCHUSTER.