(No Model.)

E. SCHARFF.

SAFETY RAZOR.

No. 512,125. Patented Jan. 2, 1894.

Fig. 1.

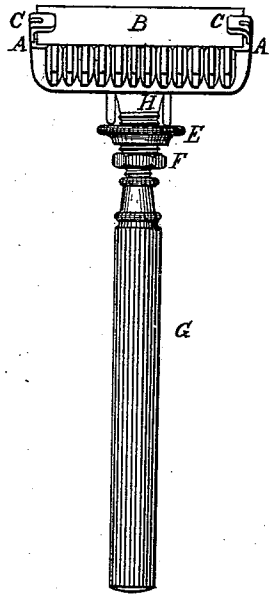


Fig. 2.

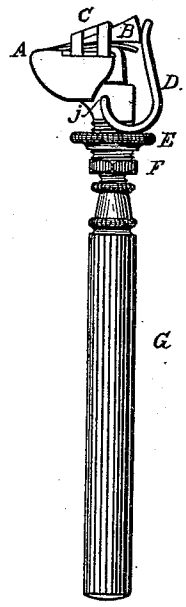


Fig. 3.

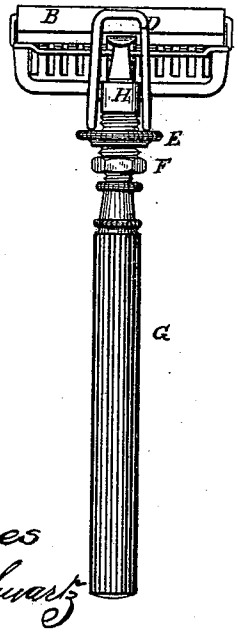


Fig. 4.

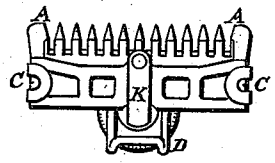
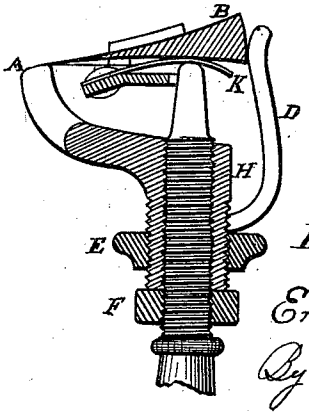


Fig. 5.



Witnesses
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ERNST SCHARFF, OF FRANKFORT-ON-THE-MAIN, GERMANY.

SAFETY-RAZOR.

SPECIFICATION forming part of Letters Patent No. 512,125, dated January 2, 1894.

Application filed June 10, 1892. Serial No. 436,276. (No model.)

To all whom it may concern:

Be it known that I, ERNST SCHARFF, a subject of the Emperor of Germany, resident at Frankfort-on-the-Main, Germany, have invented new and useful Improvements in Safety-Razors, of which the following is a specification.

This invention relates to the mode of removably holding and adjusting the blade, and adapting the holder to suit blades of different thicknesses. The razor blade is held in a frame comprising end clips, against which it is pressed by the thrust of a screw formed on the handle and working through a screw-socket formed in the boss of the frame, the screw pressing against the under side of the blade through a curved metal tongue forming a guide to prevent injury to the edge of the razor when inserting it. By means of this screw and a jam nut thereon, the cutting edge of the blade may be accurately adjusted with regard to the upper ends of the row of curved V-edged guard teeth on which it bears. These guard teeth spring from the boss of the frame and form a basket to catch the lather. A forked or U-shaped spring bears by its upper end against the back of the blade while the ends of its limbs are pivoted in opposite sides of the boss, the spring being so curved or bowed at the lower part as to present an abutment for a regulating nut screwing on the socket whereby the spring may be caused to press more or less against the back of the razor. By slacking the nut, the spring pivots sufficiently on the socket to allow the blade to be readily removed.

Reference is to be had to the accompanying drawings, forming part of this specification, wherein—

Figure 1 shows a front elevation of the safety-razor looking toward the edge of the blade. Fig. 2 is a side elevation; Fig. 3 a rear elevation; Fig. 4 a top plan (without the blade) and Fig. 5 a central cross section (on an enlarged scale) of the safety razor.

The razor blade B is confined between a pair of end clips C C and its cutting edge rests on the ends of the guard teeth A. The teeth A, A, are cut out of a basket on the back of which is cast a socket H provided with an internal and external screw thread. The internal thread screws on the threaded extension of the handle G, while the external thread carries the regulating nut E for the spring D. An apertured plate or frame is attached directly across the basket terminating in turned-up clips C, C at either end for holding the blade and carrying at its center a metal tongue K, which serves to protect the cutting edge of the blade when inserting it in its holder. The spring D which by its upper part presses on the back of the blade B, thus holding it firmly in position, has turned-in ends which are inserted in two holes, bored at *j*, in the socket H, the spring pivoting at *j* and being fixed by the regulating nut E, in the required position. By screwing the latter downward the upper end of the spring D moves slightly in a backward and downward direction so as to permit the blade to be easily removed. The regulation of the blade will be best understood by reference to the cross section shown in Fig. 5. The screw-threaded prolongation of the handle passes through the socket H and presses against the metal tongue K. By screwing the handle up or down, the space for the blade between tongue K and clips C, is diminished or increased whereby the blade is forced backward, or pushed slightly forward, by the pressure of the spring D, so that the cutting edge of the blade may be adjusted to suit the teeth in the best position for use. The handle G is then fixed in the right position in relation to the socket H, by means of the check-nut F.

Having now particularly described and ascertained the nature of the said invention and in what manner the same is to be performed, I declare that what I claim is—

1. In a safety razor, a basket or frame, having guard teeth and a socket or boss provided with an external screw-thread, in combination with a curved spring D, pivoted to said boss, and adapted to bear at its upper end upon the back of the blade, in combination with a regulating nut E, applied to said socket and bear-

ing against said spring for holding the blade in place and permitting it to be readily mounted and dismounted, substantially as described.

2. In a safety razor, a basket or frame having guard teeth adapted to hold the blade, and also having an internally and externally screw-threaded socket, in combination with a handle having a screw-threaded extension passing through said socket to bear upon the blade, a spring pivotally connected to the socket and bearing against the back of the blade, and a regulating nut bearing upon said spring, substantially as described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

ERNST SCHARFF.

Witnesses:
JEAN GRUND,
FRANK H. MASON.