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1,568,794

S. S. BAER

CONVERTIBLE SAFETY RAZOR, HAIR TRIMMER, AND COMB

Filed April 15, 1925

Fig. 1.

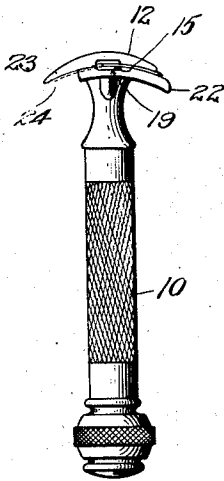


Fig. 3.

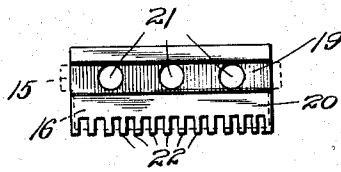


Fig. 4.

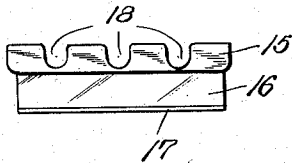


Fig. 2.

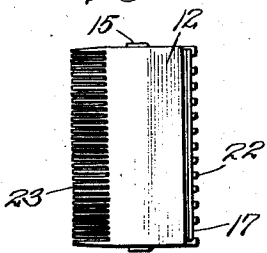
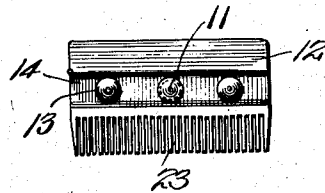


Fig. 5.



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UNITED STATES PATENT OFFICE.

SAMUEL S. BAER, OF BALTIMORE, MARYLAND.

CONVERTIBLE SAFETY RAZOR, HAIR TRIMMER, AND COMB.

Application filed April 15, 1925. Serial No. 23,438.

To all whom it may concern:

Be it known that I, SAMUEL S. BAER, a citizen of the United States, residing at 2417 Madison Avenue, in the city of Baltimore and State of Maryland, have invented a certain new and useful Convertible Safety Razor, Hair Trimmer, and Comb, of which the following is a specification.

This invention relates to safety razors, and especially to a convertible safety razor, hair trimmer and comb.

One object of the invention is to provide an improved safety razor of the type commonly known as the Gillette type, one of the improvements being the provision of a construction enabling the blade to be removed and replaced without the necessity of separating or disconnecting the blade-clamping elements.

Another object is to provide an improved safety razor whose blade-clamping elements cooperate equally well in holding single-edge blades and double-edge blades in the effective position for properly shaving.

Another object is to provide an improved combination of a safety razor and hair trimmer; so the hair can be trimmed at the temples and on the necks of persons, in the generally approved manner, by the persons of whom the respective temples and necks are elements, the hair-trimming feature including a comb that acts as a gage to regulate the length of the trimmed hair, and the comb also being useful separate from the hair-trimming blade.

Other objects and important features are pointed out or implied in the following details of description, in connection with the accompanying drawings in which:

Fig. 1 is a side elevation of a hair-cutting device constructed according to this invention; Fig. 2 is an end view of the device shown in Fig. 1; Fig. 3 is an elevation of one of the blade-clamping elements; Fig. 4 is an elevation of the single-edge blade formed for use with the other elements of this device; and Fig. 5 is an elevation of the other blade-clamping element.

In these drawings, in which similar reference characters correspond to similar parts throughout the several views, the handle 10 is of the ordinary Gillette type, having a socket (not shown) threaded to receive and adjustably hold the screw-stud 11 that is united with the combined comb and blade-

clamping element 12 which is also provided with the usual dowels 13. This member is provided with a groove or depression 14 that receives the thickened part or back 15 of the blade whose thinner part is shown at 16 and terminates in the cutting edge 17. This form of blade is provided with notches 18 to receive the screw 11 and studs or dowels 12 and to combine with the latter for preventing longitudinal shifting of the blade between the clamping elements. By means of the groove 14 and a similar groove 19 in the combined guard and blade-clamp 20, the blades are prevented from shifting laterally between the parts 12 and 20. These grooves and thickened part 15 also serve to assure that the blade is properly seated in shaving position when the clamping elements are in their proper position. The part 20 has the usual holes 21 to receive the screw 11 and studs or dowels 13. It also has the usual guard-teeth 22. The member 12 has comb-teeth 23. The blade's back 15 extends slightly outward beyond the ends of the members 12 and 20, thus providing a substantial and convenient handle for placing, removing and replacing the blade between the blade-clamping members.

The foregoing improvements do not affect the use of the blade-holder in connection with the Gillette type of double-edge blade, and such a blade is indicated at 24. This reference character 24 also represents the single edge of the blade 15 when the latter is reversed for use in combination with the comb, for trimming hair at a distance from the cuticle.

The razor is used in the usual way for shaving, but for trimming the hair or beard a distance from the cuticle, the razor edge of the single-edge blade, or one of the edges of the double-edge blade is used in combination with the comb-teeth 23. It will be seen that the comb-teeth will hold the razor edge at a distance from the cuticle, and that this distance can be varied by tilting the handle 10 so that the thicker or thinner parts of the teeth will slide on the cuticle; or, for cutting the hair longer than the thickness of the comb-teeth, the part of the member 12 at its center or between the center and the comb-teeth is held in contact with the cuticle during the shaving operation. In this connection, it may be well to remind ourselves that shaving is a form of hair

trimming, and vice versa, when such hair trimming is effected with a device of this character.

Referring to the dotted line position of the blade 24, in Fig. 1, it is seen that the hair-trimming edge is between the handle 10 and the free ends of the comb-teeth and spaced from the latter, and at a considerable distance from the handle and thus providing an ample clearance to avoid clogging or interference of the cuttings with respect to the hair being cut.

I do not intend to limit my patent protection to the exact details of construction and arrangement here shown, it being obvious that various changes may be made within the scope of the inventive ideas as implied and claimed.

What I claim as my invention is:

1. A safety razor including two blade clamping elements, one of the blade clamping elements including a razor edge guard, the other of said clamping elements including a comb, a razor blade, and means cooperative with the clamping elements for holding the razor blade in cooperative relation with the razor edge guard and for also holding the razor edge in cooperative relation with said comb, for the purposes specified.
2. In a combined shaving and hair-trimming device, the combination of two clamping elements, one of these elements including a razor edge guard, the other of said elements including a comb at one side and also including a guiding surface, said guiding surface extending from said comb to said guard, a razor blade between said clamping elements and being reversible with respect to said guard and comb, said guide being convex in such manner that it cooperates with the comb for trimming hair to greater and less lengths, said guide also being cooperative with said guard and with the razor edge for effecting the cutting of hair at the cuticle.
3. A combined combing and guiding element of a hair-trimming device, such element including a convex side and a concave side, the concave side being provided with an element for defining the shaving and hair

cutting positions of razor blades, the convex side and concave side including comb-teeth which extend to one edge of this guiding element, the opposite edge of this element being relatively thin and straight for holding a razor edge in proper relation to a razor guard for effecting the usual shaving, means being provided on the concave side for securing a razor guard in position to cooperate with this guiding element for holding razor blades, substantially as shown, for the purposes specified.

4. A combined combing and guiding element of a hair-trimming and shaving device, such element including a convex side and a blade-engaging side, the blade-engaging side being provided with means for defining the shaving and hair trimming positions of razor blades and for securing a razor-guard in position, this combing and guiding element including comb-teeth on one edge, and the opposite edge being relatively thin and straight for holding a razor-blade's edge in proper relation to a razor-guard for effecting the operation of shaving.

5. A device of the kind described consisting of a stem constituting a handle and provided with a blade-supporting element transversely disposed on one end thereof, and a blade-clamping and flexing member having a blade-overhanging comb extension projecting a material distance laterally beyond said blade-supporting element.

6. A device of the class described consisting of a handle member, a blade-supporting member consisting of parts of different lengths projecting laterally on opposite sides of the handle member, the longer part constituting a razor-guard, and a blade-clamping member overlying both of said blade-supporting parts, the portion of said clamping member overlying the shorter blade-supporting part being provided with comb teeth and being materially longer than said shorter blade-supporting part, and the portion of said clamping member overlying said longer blade-supporting part being shorter than said longer blade-supporting part.

In testimony whereof I affix my signature.

SAMUEL S. BAER.