Mar. 13, 1923. 1,448,341.

M. J. GRAEF.

COMBINATION SAFETY RAZOR AND HAIR TRIMMER.

FILED DEC. 8, 1919.

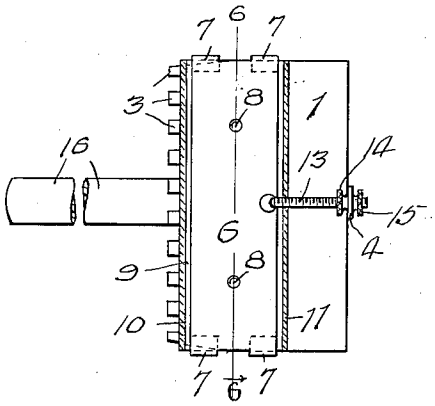


Fig. 1.

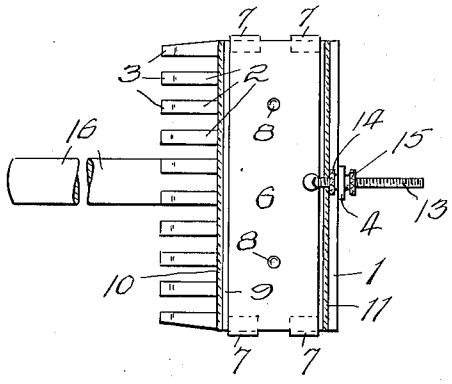


Fig. 2.

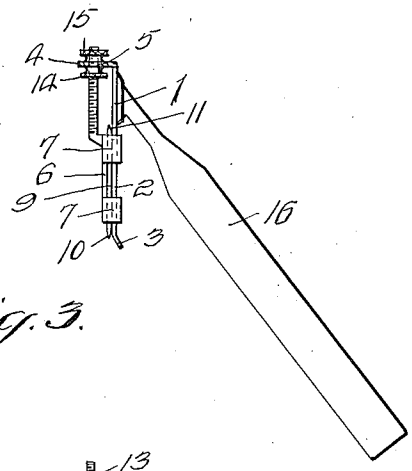


Fig. 3.

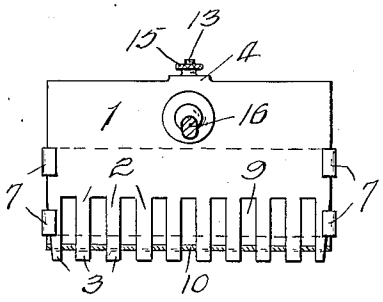


Fig. 5.

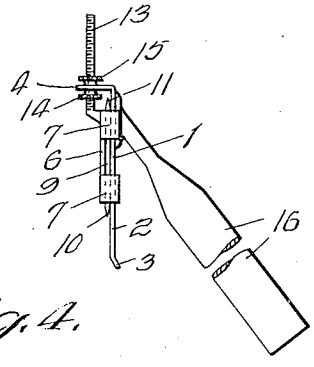


Fig. 4.

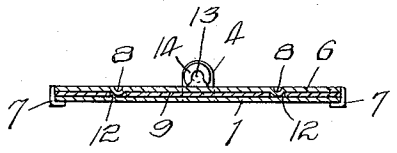


Fig. 6.

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UNITED STATES PATENT OFFICE.

MICHAEL JOSEF GRAEF, OF ST. LOUIS, MISSOURI.

COMBINATION SAFETY RAZOR AND HAIR TRIMMER.

Application filed December 8, 1919. Serial No. 343,347.

To all whom it may concern:

Be it known that I, MICHAEL JOSEF GRAEF, a citizen of the United States, residing in the city of St. Louis and State of Missouri, have invented certain new and useful Improvements in Combination Safety Razors and Hair Trimmers, of which the following is a specification.

My invention relates to a combination safety razor and hair trimmer and has for its object to provide a device which may be adjusted for use as a safety razor, or adjusted for use as a hair trimmer.

A further object of the invention is to provide a device of this class which will be simple in construction, easily and readily adjusted for the use desired, consisting of a minimum number of parts and prove highly efficient for the purposes intended.

With the above and other objects in view, the invention consists in the novel construction, arrangement and combination of parts hereinafter fully described and finally pointed out in the claim hereto appended.

Referring to the accompanying drawings forming a part of this specification wherein like characters of reference denote similar parts throughout the several views:

Fig. 1, is a front elevation of a combination safety razor and hair trimmer constructed in accordance with my invention, the blade being shown as adjusted to a position for shaving purposes.

Fig. 2, is a view similar to Fig. 1, with the razor blade and blade holder adjusted to a position upon the guard plate for use as a hair trimmer.

Fig. 3, is an end elevation of the device with the razor blade adjusted to a position for shaving purposes.

Fig. 4, is a view similar to Fig. 3, with the razor blade and blade holder adjusted to a position upon the guard plate for use as a hair trimmer.

Fig. 5, is a rear elevation of the device looking in direction of the arrow in Fig. 3.

Fig. 6, is a sectional elevation taken on line 6—6 of Fig. 1.

Referring to the drawings, the reference character 1 indicates a suitably shaped guard plate provided with a plurality of suitably spaced guard fingers 2 to form slots therebetween. The lower end of each guard finger 2 is bent at a suitable angle as at 3, to the remaining portion of each finger, as clearly shown in Figs. 3 and 4. The upper edge of the guard plate 1 is provided with an ear 4 having an opening 5. The ear 4 is bent at a right angle to the guard plate 1 and in an opposite direction to the angular extremity 3 of finger 2.

6 indicates a slidable razor blade holder plate. The plate 6 is provided at each end with a plurality of hooked guide fingers 7. The holder plate 6 is further provided with a plurality of depressed bosses, or protuberant parts 8.

9 indicates a suitable safety razor blade having the cutting edges 10 and 11. The blade 9 is provided with a plurality of openings 12 for the protuberant parts 8 to engage in and properly position the reversible blade 9 with relation to the holder plate 6.

13 indicates a suitable screw-threaded member which is suitably fixed at one end to the holder plate 6. The screw-threaded member passes through the opening 5, of the ear 4, of the guard plate 1, and is provided with a gauge nut 14 which engages the inner face of the ear 4 and with a lock-nut 15 which engages the outer face of the ear 4.

16 indicates a suitable handle which is suitably fixed at one end to the back of the guard plate 1 near the upper edge thereof and the handle extends from the guard plate 1, preferably, although not necessarily, in parallel relation with the bent extremities 3 of the guard fingers 2, as clearly shown in Figs. 3 and 4.

To assemble the several parts, constituting my invention, the razor or cutting blade 9 is first positioned upon the inner face of the slidable holder plate 6 in such a manner that the protuberant parts designated 8 engage in the openings 12 of the blade 9. After this operation the holder plate 6 and blade 9 are slid into position upon the guard plate 1, in such a manner that the blade 9 is held in a guided position between the holder plate 6 and the guard plate 1, as clearly shown in Fig. 6. As the holder plate 6 and blade 9 are slid into operative position upon the guard plate 1, it will be observed that the screw-threaded member 13 is guided into engagement with the opening 5 of the ear 4, when the nut 15 is removed. After the screw-threaded member 13 has entered the opening 5 of the ear 4, the nut 15 is applied to the screw-threaded member 13, as is manifest. The hooked ends 7 of the holder plate 6 provides ways to receive the side edges of the guard plate and permit of sliding adjust-

ments of the blade 9 and holder plate 6 upon the guard plate 1, as is manifest.

If it is desired to use the device as a safety razor to shave with, the holder plate 6 and blade 9 are adjusted to the position on the guard-plate, as illustrated in Fig. 1.

Now, if it is desired to use the device for the purpose of trimming hair, the operator just loosens nut 15 and then adjusts the nut 14 to the desired position on the screw threaded member 13, such for instance, as shown in Fig. 2, which is the extreme adjustment of the nut 14. This adjustment would permit the hair to be trimmed pretty short, as is manifest. If but a light trimming of the hair were desired, the length of the exposed slots between the guard fingers 2 would be shortened accordingly, by slidable adjustment of the holder plate 6 and blade 9 upon the guard plate 1, as is manifest.

From the foregoing description, it is evident that I have constructed a combination safety razor and hair trimmer which is simple in construction and operation, consisting of a minimum number of parts and which will be highly efficient for the purposes intended, owing to the fact that the blade 9 may be easily and readily slidably adjusted to various cutting positions upon the guard plate 1.

The many advantages of the herein described invention will readily suggest themselves to those skilled in the art to which the invention appertains.

I do not wish to be understood as having limited myself to the details of construction shown and described, but desire to have it understood that the invention I have shown in the drawings is merely illustrative, as it is manifest that various minor changes may be made in the exact construction and particular arrangement of parts without departing from the spirit of my invention, hence I reserve the right to make any such changes or modifications as may fairly fall within the scope of the appended claim when fairly construed.

What I claim is:

A combination safety razor and hair trimmer comprising a flat guard plate provided with a plurality of suitable spaced guard fingers on one edge to provide slots therebetween, an ear having an opening extending from the upper edge of the guard plate at a right angle thereto, a blade holder plate, a plurality of hooked guide fingers formed along the side edges of said blade holder plate for slidably mounting the blade holder plate upon the guard plate, a plurality of protuberances extending from the rear face of said blade holder plate, a razor blade having one or more cutting edges and provided with a plurality of openings for the protuberances of the blade holder plate to engage in for holding the razor blade in a fixed position between the blade holder plate and the guard plate, a screw threaded stem fixed at its lower end to the front face of said blade holder plate near the upper edge thereof and passing through the opening of the aforesaid ear of the guard plate, a stop nut carried by said screw threaded stem for engagement with the inner face of said ear and a second nut carried by the screw threaded stem for locking engagement with the outer face of said ear to retain the blade holder plate and the razor blade in any adjusted elevation with relation to the free ends of the guard fingers of the guard plate.

In testimony whereof, I have hereunto signed my name to the specification.

MICHAEL JOSEF GRAEF.