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E. M. KOJIMA  
HAIR CUTTING DEVICE  
Filed Oct. 27, 1925

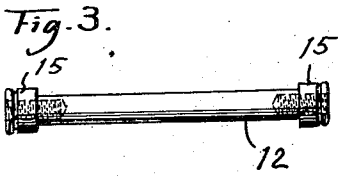
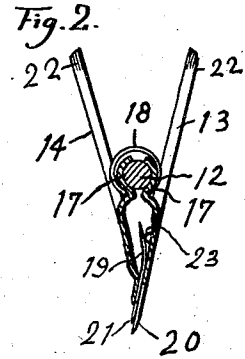
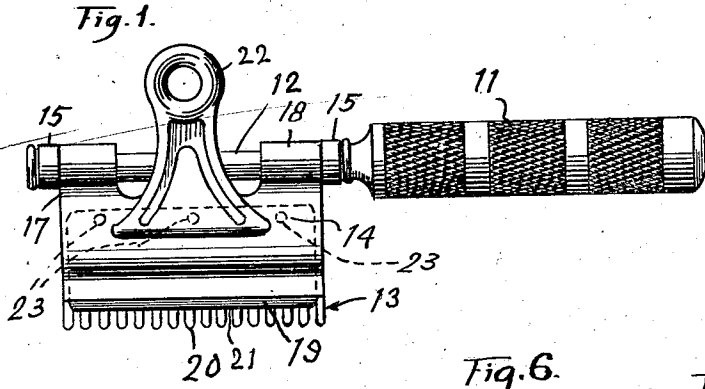


Fig. 6.

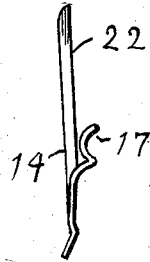


Fig. 7.

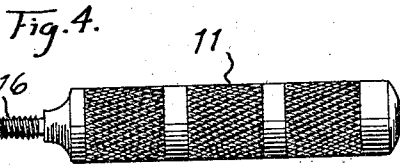
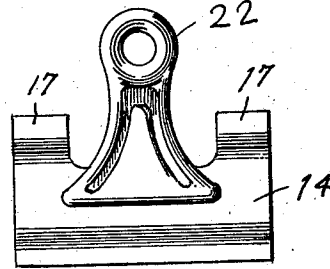


Fig. 8.

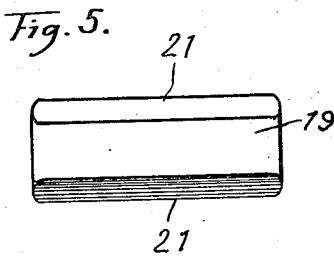
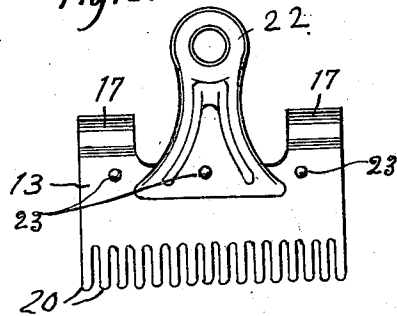


Fig. 9.



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## UNITED STATES PATENT OFFICE.

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## HAIR-CUTTING DEVICE.

Application filed October 27, 1925. Serial No. 65,173.

The present invention relates to an improvement in hair-cutting devices, and its objects are to provide a device of this character utilizing an ordinary safety razor blade, or blade of similar character for the cutting element, a holder for the cutting element adapted to grip the same in a cutting position, and other elements associated with the holder whereby the device may be manually manipulated and without clogging by the cut hair.

A further object is to provide detachable cutting elements and detachable holding elements, whereby the device may be readily disassembled for cleaning purposes, and to provide a device of this character in which the parts are made from sheet metal, thereby to produce a hair cutting device that is simple and economical.

A further object is to provide a hair cutter constructed to prevent the slipping of the fingers of the user, either while cutting his own hair or cutting the hair of others.

While the drawings show a preferred form of my invention, it is to be understood that I do not limit myself to the precise construction therein exhibited, but that minor changes and alterations may be made which are within the scope of the appended claims.

In the drawings, Figure 1 is a side view of a hair-cutting device embodying the features of my invention. Fig. 2 is a transverse sectional view through the holding elements and the cutter. Fig. 3 is a side and detail view of the shaft which is adapted to support the holding elements. Fig. 4 is a side and detail view of the handle. Fig. 5 is a side and detail view of the cutter blade. Fig. 6 is an end elevation of a holding member. Fig. 7 is a side and detail view of the holding member shown in Fig. 6. Fig. 8 is a perspective detail view of a spring element adapted to secure the holding member and comb member to a supporting shaft. Fig. 9 is a side elevation of the comb member showing the inner side thereof.

Referring to the drawings, the handle 11 is detachably secured to a shaft member 12, which serves to support the comb member 13 and the holding member 14. Shaft member 12 has each end 15, threaded to engage with a correspondingly threaded shank 16, on the handle. The holding member 14 and comb member 13, each have bent portions 17, adapted to engage with shaft member

12. The springs 18 extend over and engage with the bent portions 17, thereby operatively securing members 13 and 14 to shaft member 12. The enlarged ends 15, serve to prevent the springs 18 from being displaced. The comb member extends in operative position beyond the holding member. The blade cutter 19 is mounted between the comb and holding member and may be adjusted to and from the teeth 20 of the comb.

The comb member 13 and holding member 14, are preferably made of sheet metal or similar material, and are retained in position relative to shaft 12, by the enlarged ends 15, thereon. The blade cutter 19, is provided with cutting edges 21, but a single-edged cutter may be employed if desired. The handle may be attached to either end of shaft 12, allowing the device to be used with either hand of the operator. Handles 22 are provided on the comb and holder.

Projections 23 are provided, and engage with blade cutter 19, thereby holding an edge 21, firmly against the comb member.

In use, the springs 18, afford means for a secure grip of the operator's fingers, while the handle is grasped in the palm of the hand. The cutting blade 19, may be adjusted both laterally and longitudinally to utilize all of the cutting edges. The longitudinal adjustment will expose all portions of the edge between the teeth 20. The device, in use, is adapted to be drawn from the top of the head downwardly, as in the use of a razor. After use, the device may be cleaned with facility, by pressing upon the handles to release the cutting blade, and passing the device through water. The open space between the handles facilitates the cleaning thereof. The shaft 12 cooperating with springs 18, support the holding member 14 and comb 13, rigidly relative to one another, and to hold the cutting blade.

From the foregoing description and drawings, it may be seen that I have provided a useful and compact hair-cutting device capable of quick adjustment, and readily manipulated for cleaning purposes.

What is claimed is:

1. In a hair cutting device, a central supporting shaft, a handle detachably secured thereto, a comb member carried by the supporting shaft, a holding member mounted in opposed relation to the comb, said comb member having a greater width than the holding member, springs engaging with the

comb and holding members to retain them in operative connection with the shaft, and a blade cutter inserted between the comb and holding member.

2. In a hair cutting device, opposed jaw members, one of which has a greater width than the other, said wider jaw member having an integral comb section, a shaft supporting the two opposed jaw members, spring elements engaging with said comb and holding member and maintaining them in operative position upon the shaft, diverging handles, one extending from each body portion, and a blade cutter mounted between the comb and holding member.

3. In a hair cutting device, opposed comb and holding members, said comb member having a greater width than the holding member, a shaft supporting the comb member and the holding member, spring elements engaging with said comb member and holding member and maintaining them in operative position upon the shaft, a blade cutter mounted between the comb member and the holding member, and projections upon the comb member serving to hold the blade member with the opposed comb teeth firmly pressed against the cutting edge of the blade.

4. In a hair cutting device, opposed comb and holding members, a shaft supporting the comb and the holding member, spring elements engaging with the comb and holding members and maintaining them in operative position upon the shaft and in operative position relative to one another, a blade cutter mounted between the comb member and the holding member, and projections on the comb member apart from and having an inner position relative to the edge of the holding member arranged to hold the blade cutter at an angle with the comb and with the cutting edge of the blade firmly pressed against the teeth of the comb.

5. In a hair cutting device, the combination with opposed jaw members, one jaw member having a greater width than the other jaw member, of a shaft engaging with the comb and holding members and holding them in operative alignment with one another, curved projections on each jaw member bearing upon the shaft, spring elements engaging with the said curved projections on the jaw members, a blade cutter mounted between the jaw members, and projections holding the blade firmly against the comb teeth.

6. In a hair cutting device, opposed comb and holding members, said comb projecting

beyond the holding member, arcuate portions integral with the comb member and with the holding member, a supporting shaft disposed between the said arcuate portions, springs engaging with the said arcuate portions to retain the comb and holding member upon the supporting shaft, enlarged and threaded ends on the shaft serving to prevent longitudinal displacement of the comb and holding member, and a handle having a threaded shank adapted to engage with either of said threaded ends on the shaft.

7. In a hair cutting device, a central supporting shaft, enlarged ends thereon, a holding member, an opposed comb member, arcuate extensions on both the comb and holding member adapted to engage with said shaft, springs urging the comb and holding member in engagement with the shaft, said enlarged ends serving to prevent displacement of the springs, and a blade cutter inserted between the comb and holding member.

8. In a hair cutting device, a central supporting shaft, a handle therefor, opposed comb and holding members, springs urging the comb and holding members into engagement with the supporting shaft, and a cutting blade mounted between the comb and holding member.

9. In a hair cutting device, opposed comb and holding members, a central supporting shaft therebetween, spring elements serving to hold the opposed comb and holding members in engaging position, a blade cutter mounted between the comb member and the holding member, projections on the comb member serving to hold the blade cutter with its cutting edge firmly pressed against the comb teeth, enlarged and threaded ends on said shaft, and a handle having a threaded shank to engage with either threaded end of the shaft.

10. In a hair cutting device, opposed comb and holding members, each having a body portion, and comb teeth on the comb member, a blade cutter mounted between the comb and holding members and frictionally held therebetween, projections on the comb member serving to lift the blade cutter and press its cutting edge firmly against the comb teeth, diverging handles one extending from each body portion, a central shaft between the comb and holding members, threaded ends on said shaft, and a detachable handle engaging with either of said threaded ends on the shaft.

In testimony whereof, I hereunto affix my signature.

EDWARD M. KOJIMA.