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COMB AND CURLER

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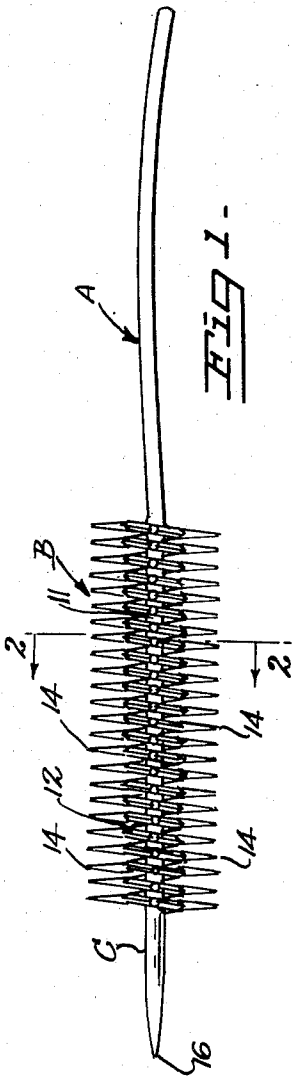


FIG. 1.

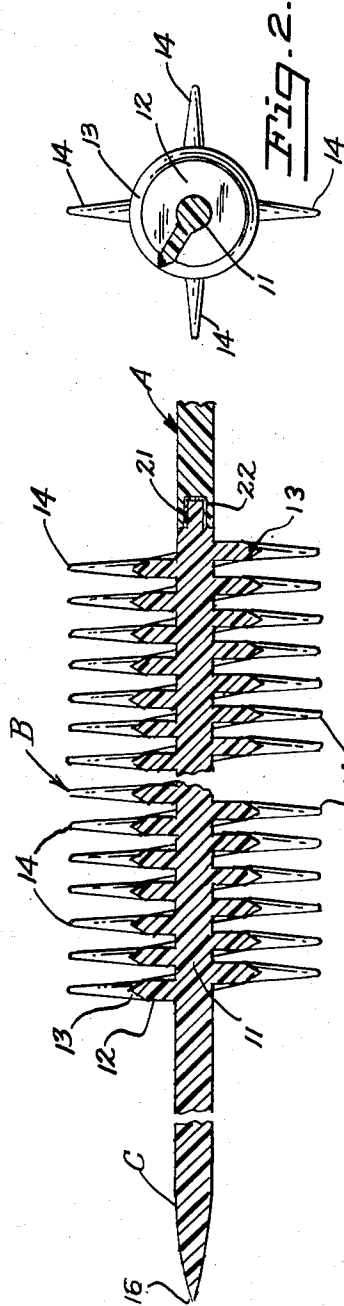


FIG. 2.

FIG. 3.

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COMB AND CURLER

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5 Claims. (Cl. 132—122)

This invention relates to new and useful improvements in combination comb and curler. More particularly the invention relates to a curler having a helical threaded portion from which project a plurality of teeth which perform a combing action.

The principal object of the invention is to provide an improved implement for combing and curling the hair. The invention is distinguished from other combs in the provision of a helical tooth as hereinafter described in greater detail and in the position of the teeth.

The comb is employed by bringing the teeth in contact with the hair in conventional manner or by twisting or rotating the device about the principal axis. The twisting or rotation of the device curls the hair by positioning the strands of hair in the grooves and thus causing the strand to assume a helical configuration. The function of the device is to comb the hair in a manner and with results similar to conventional straight-toothed combs but at the same time to form the hair into a curl. Thereby the implement performs two functions. Further, the actual curling operation is greatly speeded over conventional curling methods. By the use of the present invention the employment of curlers may be eliminated and yet equally beneficial results obtained.

In the drawings:

Fig. 1 is a side elevation of the device.

Fig. 2 is a transverse section taken substantially along the line 2—2 of Fig. 1.

Fig. 3 is a vertical longitudinal section.

The implement which is the subject of this invention consists of three principal portions or parts which may be integral or which may be separately formed and either permanently or detachably joined together, these being the handle A, toothed portion B and mandrel portion C.

The handle A, formed at one end, is relatively thin and elongated, being about four inches long and thin so that the handle may be grasped between the thumb and the curled fingers of one hand and by manipulation of the thumb and fingers the comb may be given a rotative movement around its principal axis. The handle may be curved to facilitate the twisting movement and enable the handle to fit the hand more conveniently.

Adjacent the handle is the toothed portion which, in turn, consists of a central core 11 which is of a small diameter of approximately one-quarter inch projecting out from which is a single thread 12 or helix of a thickness of approximately one-sixteenth inch with a one-sixteenth inch space between threads. The extremity of the helix is pointed, the point 13 or extremity being triangular. The projection of the helix above the central core 11 is approximately one-quarter inch. The pitch of the helix is approximately twenty turns for a length of approximately three inches of total length of the tooth zone B.

Projecting out from the helix is a plurality of teeth 14. The teeth are arranged in four longitudinally extending straight rows, each row being spaced 90° from

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the other. It will be understood that the angular spacing between the teeth may be varied by reducing the angle between rows. Each tooth 14 is substantially triangular in shape, its base at the outer edge of the helix being approximately one-eighth inch and its height being approximately one-quarter inch. The teeth 14 function in the same manner as conventional teeth of straight combs when used in the manner of a conventional comb. However, when the curler is given a rotative motion, the teeth function to divide the strands of hair so that it more readily falls into the grooves between the thread of the helix.

It will be understood that the dimensions of the tooth portion may be varied within the scope of the invention.

On the side of the tooth portion B opposite the handle A is a mandrel or terminal portion C which is substantially cylindrical, having approximately one-quarter inch diameter and terminating in a tapered end 16, which serves as a "rat tail" to retain the curl formed by the helix after it is ejected and also to aid in placing the curl in proper position. The rat tail portion may additionally be used in the conventional manner.

As has been stated, the three zones of the comb may be formed integral. However, the handle A may be made separately and joined to the tooth portion B by a projecting stud 21 on the end of the helical portion which constitutes a continuation of the core 11, which stud is received in a hole in the end of the handle A, the attachment being either by cementing the stud in the hole by cement 22 or by a threaded connection which makes the handle and tooth portion detachable.

It is desirable that the material of which the comb is formed may be readily machined or cast in the desired shape. Further, it is essential that the material be smooth so that the hair will not snag in rough or uneven portions of the comb. Thus, conventional comb material such as hard rubber, Bakelite and a wide variety of clear or transparent, water-white or colored plastics may be employed.

In using the device as a curler, a handle A is given a twisting movement about its axis by a manipulation of the thumb and fingers and the hair is brought into contact with the tooth portion B. The rotation of the helical tooth causes the hair to be wound about the core 11 and to be progressively moved from adjacent the handle end A to the mandrel end C of the single tooth. This movement combs the hair and also winds the hair in a curl which curl is finally formed on the mandrel or terminal C.

In using the device as a comb, a strand of hair is brought into contact with the teeth 14 in straight combing strokes.

It will be understood that although the dimensions of the tooth have been set forth in considerable detail, variation therein may be made, particularly if the proportions of the relative parts is maintained.

What is claimed is:

1. A hairdressing device comprising a cylindrical core having a continuous, integral helical thread formed on the cylindrical surface of said core and projecting therefrom, and a mandrel portion at one end of said core, said mandrel portion being cylindrical with a rounded point at the end opposite said core.

2. A device according to claim 1 in which is further provided a handle at the end of said core opposite said mandrel.

3. A device according to claim 1 in which is further provided a handle at the end of said core opposite said mandrel, said handle being detachably secured to said core.

4. A hairdressing device comprising a handle and a toothed portion, said toothed portion having a thin cylin-

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drical core and a single-thread, substantially radially projecting helix projecting from said core, and a plurality of comb teeth projecting radially from the outer edge of said helix.

5. A device according to claim 4 in which said teeth are arranged in longitudinally extending rows, said rows being spaced apart angularly.

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