This device comprises a flat base member having slots therein, grooved hair wave guide members adjustable in the slots and a rack and pinion mechanism for adjusting the hair wave guide members to place the wave in the hair held clamped over the members and to comb teeth by a spring finger clamp. This clamp has three fingers extending along the sides of the base member and in between the base member is a finger which has a series of holes for accommodating the combed teeth located a central intermediate portion of the base member lying between the opposite sides of the slots thereof and between the grooved guide members. After the hair strands have been clamped over the hair guide members ends can be rolled up on a curler supported on wire supports to the base and in such a manner that the curler can be pivoted. In this manner the hair strands are provided with a wave intermediate the length of the hair and with curls in the ends of the hair at the same time. The hair after being shampooed and washed and with set lotion applied to the hair, will be provided with the device and after a sufficient drying time a permanent set will have been given to the hair.

5 Claims, 5 Drawing Figures
HAIR WAVE AND CURL SETTING DEVICE

This invention relates to a combined hair wave and curl setting device. It is a principle object of the present invention to provide a hair wave and curl device wherein as the strands of hair are placed thereover they will be well distributed to provide for an effective hair wave and curl.

It is another object of the invention to provide a hair wave and curl setting device with comb teeth to aid in distributing the hair within the device and to provide the hair wave guide through the grooves in continuation of the hair comb teeth so that the hair will be properly held and retained when clamped over the wave combing guides.

It is another object of the invention to provide a hair wave and curl device in which the hair wave forming guides are longitudinally adjustable in opposite directions, and wherein this adjustment is effected easily by dising or tuning a hand knob or effecting the actuation of a rack and pinion mechanism.

It is a further object of the invention to provide a hair wave and curl setting device in which the curl roll is provided upon the device and is utilized to effect the pulling of the hair strands through the wave guide and forming members so that the complete hair strands are pulled tightly through the device for a complete setting with the one device of the hair strands placed in the device.

It is a still further object of the invention to provide a hair wave and curl device with a simple means for handling the device without the hand being in direct contact with excessive heated areas of the device; there being clamped projections extending from one end of the device for the handling of the device while passing the hair over the wave guide members and onto the end curl roll.

Other objects of the invention are to provide a hair wave and curl setting device, having the above objects in mind, which is of simple construction, has a minimum number of parts, easy to assemble, easy to operate, light in weight, of pleasing appearance upon the hair, efficient and effective in use.

For a better understanding of the invention, reference may be had to the following detailed description taken in connection with the accompanying drawings, in which:

FIG. 1 is a bottom perspective view of the hair waving and curling device embodying the features of the present invention.

FIG. 2 is an enlarged transverse sectional view of the device.

FIG. 3 is a fragmentary top plan and section view of the device as viewed on line 3—3 of FIG. 2 and looking upon the rack and pinion mechanism, in plan, for effecting the hair set wave members.

FIG. 4 is an enlarged bottom plan view of the hair wave and curl device with the hair wave set mechanism having been adjusted to place the wave set into the hair, the hair curl roll and retaining member not being shown.

FIG. 5 is a perspective view of the finished wave set and hair curl obtained with this device.

Referring now to the figures, 10 represents generally the hair wave and curl device of the present invention and which comprises generally a slotted base member 11, hair wave guides 12 and 13 slidably mounted upon the base 11 for longitudinal adjustment relative to one another, a bottom plate 14, a rack and pinion mechanism indicated generally at 16 with a turn knob 17, a finger clamp 17 having three parallel longitudinally extending clamp fingers 18, 19 and 20 spring biased to a closed position for containing the hair over the longitudinally shiftable hair wave guide, 12 and 13, a hair roller 22 on which the ends of the hair strands are wound and supported on end wires 23 and 24 to draw the hair ends thereof over the hair wave guides 12 and 13 and to maintain the hair strands tightly pulled upon the roller and over the hair guides.

The base 11 has two parallel and centrally located closed end slots 26 and 27 and an intermediate run of material 28 disposed therebetween. The hair wave guides 12 and 13 oppose one another and respectively have depending and racked projections 29 and 31 depending respectively through the elongated closed end slots 26 and 27 and respectively shouldered at 32 and 33 to confine the wave set guides 12 and 13 against outward displacement from the base 11. These projections 29 and 31 of the wave guides 12 and 13 respectively have a rack teeth 34 and 35 with which the rack pinion 16 gauges at the opposite sides thereof so that as thus illustrated in FIG. 3 rotation of the rack pinion mechanism 16 in one direction will effect opposite longitudinal movement to the hair wave guides 12 and 13 to wave the hair strands extended over the wave guides as illustrated by the solitary strand 36 in FIG. 4. The rack pinion mechanism including the turn knob 17 is carried on and journaled in the base plate 14. Base plate 14 is adhered or, in any suitable manner secured to the base 11 to maintain the rack pinion mechanism in mesh with the rack teeth 34 and 35 of the hair wave guides 12 and 13.

Series of hair comb teeth extend upwardly from the side edges of the base at 37 on the one side and close to the root ends of the hair strands and of 38 outwardly removed therefrom for receiving and maintaining the hair in strands over the hair wave guides 12 and 13 are grooved respectively at 39 and 41 for the same purpose so as to contain the hair strands equally divided and of similar thickness over the hair guides and in the device.

Comb teeth 42 raised in series extend upwardly from the intermediate portion 28 in order to maintain the hair strands separated at a location between the adjacent hair wave guides 12 and 13. The finger 19 of the clamp device 17 is holed to receive the comb teeth 42.

The clamp device 17 is pivotally supported upon raised bearing projections 43 and 44 on the base 11 and the fingers 18, 19 and 20 extend forwardly, laterally spaced from one another, from a transverse member 45 from which a thumb press projection 46 rearwardly extends. This projection 46 overlies a corresponding projection 47 extending rearwardly from the base under which fingers can be extended while pressing with the thumb against the projection 46 of the clamp 17 and between the projection 47 and the projection 46 of the clamp 17 is a coil spring 48 tending to maintain the clamp 17 closed upon the base plate 11 and upon the hair strands that extend over the hair wave guides 12 and 13.

Once the hair strands have been extended over the hair guides 12 and 13 and made secure thereover by the clamp 17, the ends of the hair strands are extended through a longitudinally extending slot 49 of the roller 22 and are then wound, as best seen in FIG. 2, upon the roller 22.

It will be noted that the extending support members 23 and 24 for the roller 22 are turned inwardly respectively at 23' and 24' so that they can be pivoted with the roller so as to pull the hair strands 36 through the clamp 17 and over the hair guides and the hair in its final position upon the hair for the drying and setting of the hair and to give permanency to the wave effected by the opposite longitudinal shifting of the wave guides 12 and 13 by the rack mechanisms 16 and the curved ends of the hair strands on the roller 22. The roller 22 may be positioned to create any desired hair effect.

The hair is left in the device for some time as with ordinary curlers and finally when the hair strands have been set and removed both a wave, as shown generally in FIG. 5 at 51, and an outwardly and upwardly extending curl 52 will have been made in the hair strands 36. Both the hair wave 51 and the curl will have been effected in the same and single device 10 of this invention. The wave 51 will have been made by the longitudinally oppositely shiftable hair guides 12 and 13 and the end curl 52 by the hair roller 22. The various parts of this hair wave and curl device are generally made of molded plastic except for the hair roller supports 23 and 24. The devices may be externally heated before being placed under the hair strands and made exceptionally hot but can be handled by the clamp projections 46 and 47 such that severe burning or discomfort will not be given to the operator in the hair parlor or by the user herself. Since this device is provided with comb teeth on the opposite sides of the same and immediately thereof, a
What is claimed is:

1. A hair wave and curl setting device comprising a flat base member having centrally located guide slot means, hair wave guides spaced from one another and slidably adjustable in said slots, means for adjusting the hair wave guides along the slots in opposite directions, clamp means secured to the base member serving to hold the ends of the hair.

2. A hair wave and curl setting device, as defined in claim 1, and said base member having teeth projections the opposite sides thereof and intermediately between the hair wave guide members and said hair wave guide members being used for effecting even distribution of the hair thereover.

3. A hair wave and curl setting device as defined in claim 2, and said clamp device having three clamp fingers extending adjacent to the comb teeth at the opposite sides of the base member and intermediately between the wave guide members, the finger extending between the hair wave guide members being hinged to receive the comb teeth extended therealong.

4. A hair wave and curl setting device as defined in claim 2, and said means for adjusting longitudinally in opposite directions the hair wave guide members including rear racks upon the waving members, a rack pinion and a bottom plate member securing the bottom plate to the base plate, a rack pinion and turn knob journaled on the bottom plate and engaging the rack teeth of the hair wave guide members.

5. A hair wave and curl setting device as defined in claim 3, and a hair roller for receiving the ends of the hair strands, supporting means for the hair roller extending from the base, the hair roller tightening the hair through the clamp and over the hair guides as the hair is wound thereupon.