March 7, 1933. V. N. NICOSIA 1,900,126

HAIR WAVING OR CURLING ROD

Filed Nov. 16, 1932 2 Sheets-Sheet 1

Fig. 1

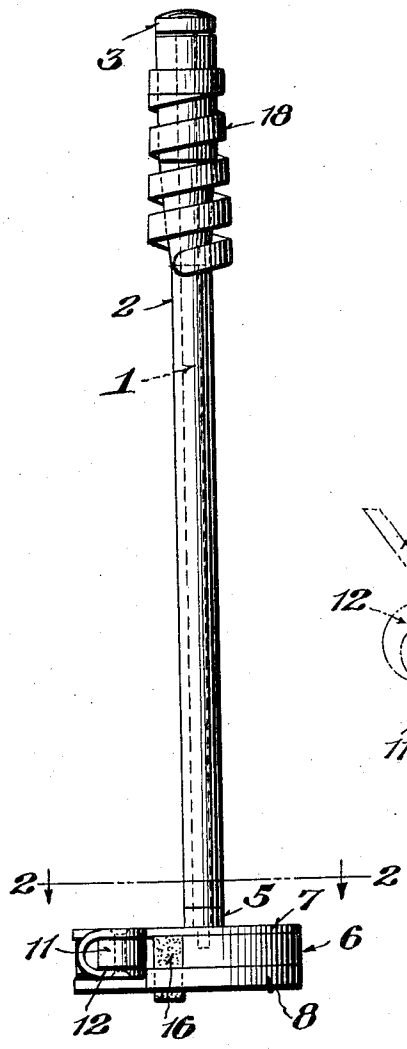


Fig. 2

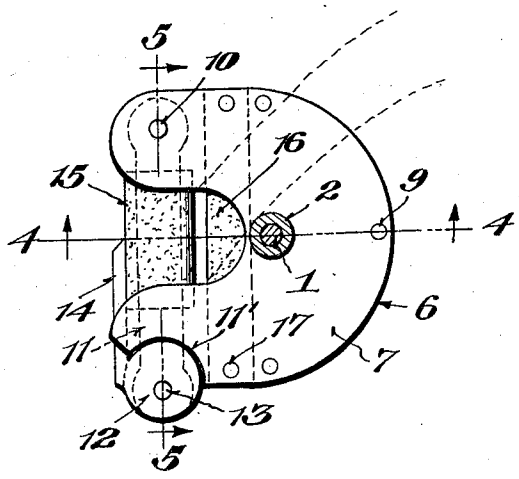


Fig. 3

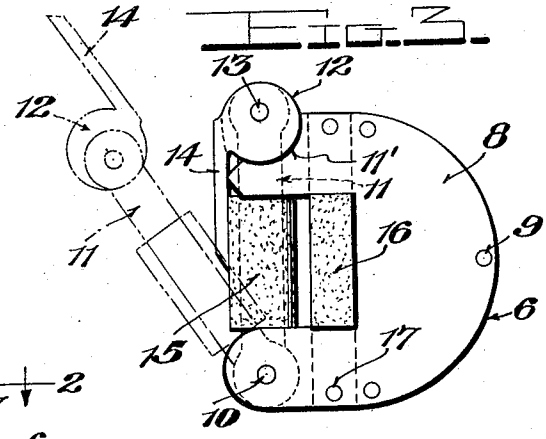


Fig. 4

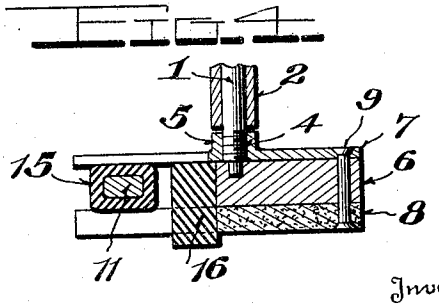
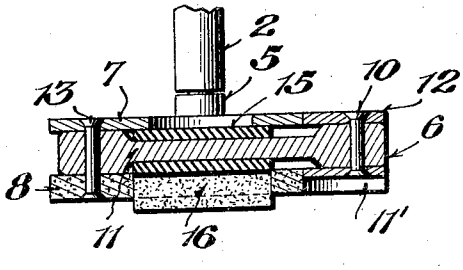


Fig. 5



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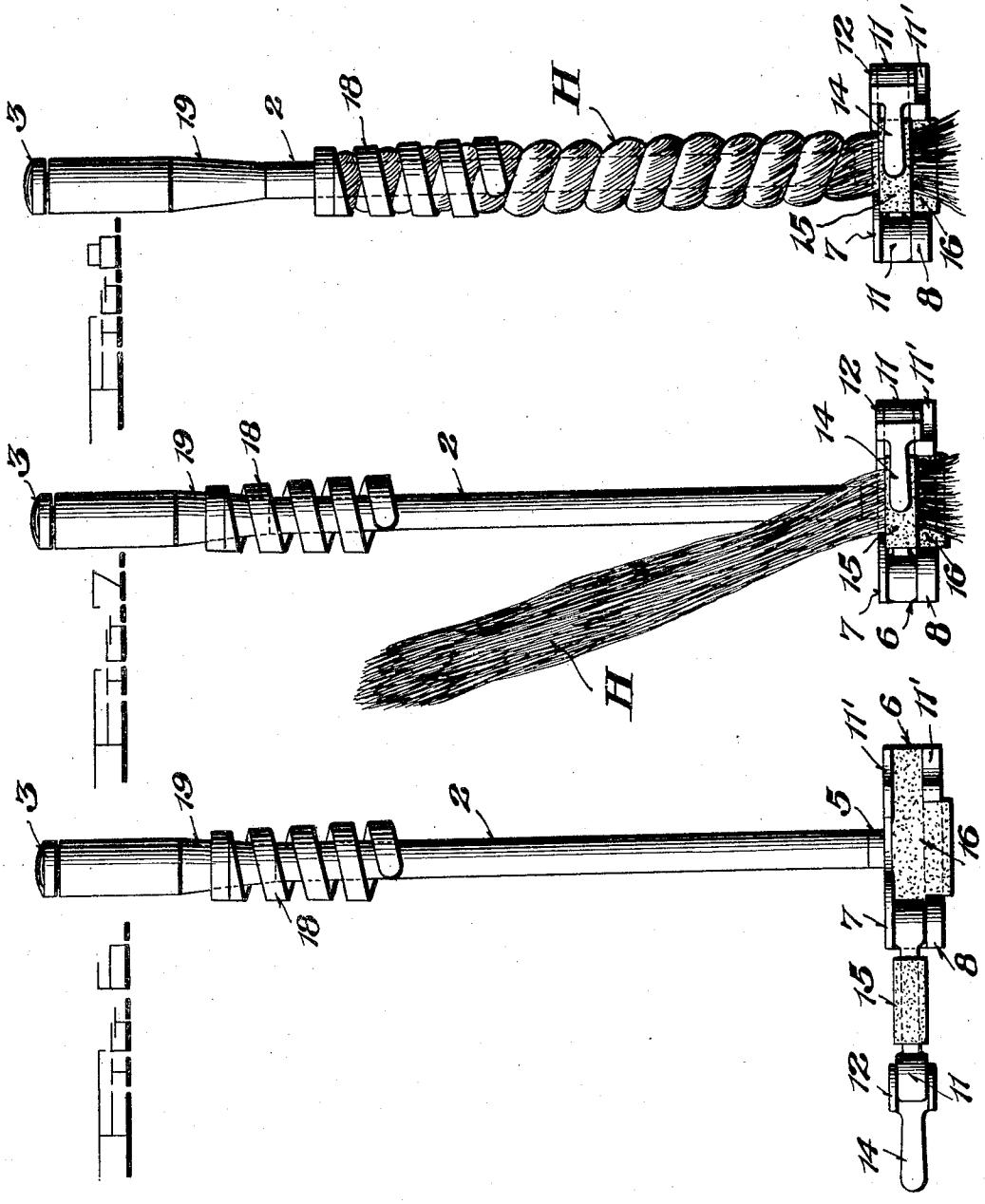

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UNITED STATES PATENT OFFICE

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HAIR WAVING OR CURLING ROD

Application filed November 16, 1932. Serial No. 642,951.

This invention relates to hair wavers or curlers, and more particularly to a device of this kind for use by professional operators.

The primary object of the invention is to provide a device of this type which can be easily and quickly manipulated by hand to enable any type of wave to be made, for example flat wrap, double spiral wrap, or a full or half twist wrap.

The invention further aims to provide a device which simplifies permanent waving; to provide safety from burns and to eliminate pulling of the hair in process of waving while at the same time to give a wave closer to the scalp without injury to the hair or discomfort to the patron, and which also enables the waving to be easily and speedily effected.

A still further object of the invention is to provide means for clamping the device in position on the head of the patron without injury to or breaking of the hair.

The invention has further and other objects which will be later set forth and manifested in the course of the following description.

In the drawings:

Fig. 1 is a side elevation of the invention;

Fig. 2 is a section on line 2—2 of Fig. 1;

Fig. 3 is a bottom plan view;

Fig. 4 is a section on line 4—4 of Fig. 2;

Fig. 5 is a section on line 5—5 of Fig. 2;

Fig. 6 is a side elevation showing the clamping in open position;

Fig. 7 is a similar view showing the clamp in operative position and engaged with the hair; and

Fig. 8 is a similar view showing the hair in wrapped position and with the holding means for the outer end of the hair in its operative position.

In proceeding in accordance with the present invention a rod 1 is employed which has rotatably mounted thereon a sleeve 2, the sleeve having a finger engaging head 3 at its outer end while its opposite end is threaded as shown at 4 in Fig. 4. The threaded end 4 of the rod engages in the threaded bore of a boss 5 which latter projects outwardly from a substantially U-shaped jaw 6. The jaw 6 is composed of a U-shaped upper plate 7 and a correspondingly shaped lower plate 8 secured thereto by means of rivets 9. The jaw 6 is relatively stationary and has pivoted thereto at 10 a swinging jaw 11. The jaw 6 is formed with a curved keeper 11′ shaped to receive a cam-like latch 12 therein, the latch 12 being pivoted at 13 to the swinging jaw 11 and being provided with a finger engaging arm 14. A cushioning sleeve 15 which may be formed of rubber is threaded over the swinging jaw 11 and confronts a cushoning member 16 which latter has its ends reduced and received between the plates 7 and 8 and riveted thereto as indicated at 17. The plate 8 is formed of insulating material so as to prevent the heat from being transmitted thereby to the scalp while the cushioning member 16 projects beyond the outer face of the plate 8 so as to engage the scalp and act as a shock absorber.

A coil spring 18 which is preferably formed of flat stock is slidable on the sleeve 2 and is employed for the purpose of holding the outer or free end of the hair H in position.

In operation and as shown in Fig. 6 the swinging or pivoted jaw is moved outwardly and a strand of the hair is then engaged with the cushioning member 16 adjacent to the scalp following which the pivoted jaw is swung to its operative position as shown in Fig. 7 and the cam latch 12 is then moved to the position of Fig. 3 which effects latching of the pivoted jaw in position. The hair is then wrapped as shown in Fig. 8 or otherwise engaged about the sleeve 2 and then the spring 18 is moved to engage over the hair to hold same on the sleeve. The sleeve 2 together with the spring 18 is now turned as desired to stretch the hair and to hold same firmly on the sleeve. After the hair has been heated to the desired extent, the spring 18 is then moved out of engagement with the hair and the rod 2 rotated to disengage same from the clamping jaw 6 following which the cam latch is moved to open position thereby releasing the entire device.

It will be observed that the cushions 15 and 16 when the hair is clamped therebetween prevent steam from contacting the scalp in conjunction with the plate 7 and in addition

securely clamps the hair without any danger of breakage or injury.

The sleeve 2 is preferably tapered at 19 adjacent its outer end, and the spring 18 tapered on its interior to eliminate scratching or cutting the hair, and to also frictionally engage the taper 19 so as to hold the spring against sliding, during wrapping of the hair on the sleeve.

If desired, the clamp may be first applied and the rod then connected thereto. Obviously, also the threaded connection 4—5 permits various sizes of rods to be employed without removal of the clamps from the hair.

What is claimed, is:

1. In a hair waver or curler, or rod having a threaded end, a sleeve rotatable on the rod, and formed to have hair wrapped thereover, a coil spring slidable on the sleeve for engagement throughout a substantial part of its length with and over the free end of the wrapped hair to hold same on the sleeve, and means to hold the hair adjacent the scalp having a threaded portion for removable engagement with said threaded end of the rod.

2. In a hair waver or curler, a rod, a sleeve rotatable on the rod, and formed to have hair wrapped thereon, a coil spring slidable on the sleeve for engagement with the hair to hold same on the sleeve, hair holding means for engagement with the hair adjacent to the scalp, and means removably connecting the rod and the said holding means whereby to disconnect the rod from the holding means by turning of the rod within the sleeve and while the latter remains stationary.

3. In a hair waver or curler, a cylindrical like member formed to have hair engaged therewith, a coil spring slidable on the member for engagement throughout a substantial part of its length with and over the outer end of the hair to hold same on the member, means to hold said hair adjacent the scalp, and means to connect the member to the hair holding means.

4. In a hair waver or curler, a rod having a threaded end, a sleeve on the rod formed to have the hair to be curled engaged therewith, means to hold the hair on the sleeve, and a holding device for engagement with the hair to be curled adjacent to the scalp and having a threaded part to engage the threaded end of the rod, the rod being rotatable in the sleeve whereby to engage same with and disengage same from the holding device while the sleeve and the hair thereon remain stationary.

5. In a hair waver or curler, a rod, a sleeve rotatable on the rod and formed to have the hair to be curled engaged therewith, means to hold the hair on the sleeve, means for holding the hair to be curled adjacent to the scalp, and means for removably connecting the rod to the holding means by and upon rotary movement of the rod within the sleeve and while the latter and the hair thereon remain stationary.

6. In a hair waver or curler, a rod, a member on the rod, hair holding means for holding the hair adjacent to the scalp, means to connect the rod to said holding means, and a coil spring to engage with and over the hair throughout a substantial part of the length of the spring and slidable on said member to removably hold the outer end of the hair on said member, said member being rotatable on the rod whereby upon rotation thereof together with the spring the hair will be stretched.

7. In a hair waver or curler, an element formed to have hair engaged thereover, means to hold the hair on the element, and second means connected to the element to hold the hair adjacent to the scalp including a pair of U-shaped plates the outer of which is formed of insulating material, a cushioning member secured at its ends between the plates and extending across the arms of the U-shaped plates, a jaw pivoted between the outer ends of one of the arms of the plates, a cushioning sleeve received over the jaw and confronting said cushioning member, and means to latch the jaw in operative position.

8. In a hair waver or curler, an element formed to have hair engaged thereover, means to hold the hair on the element, and second means connected to the element to hold the hair adjacent to the scalp including a plate of insulating material for confronting the scalp, a cushioning member, means to connect the cushioning member to the plate, a jaw having pivotal connection with the plate, a cushioning member on the jaw for holding the hair by and between same and the first named cushioning member, and means to latch the jaw in operative position.

9. In a hair waver or curler, a member formed to have hair engage therewith and having an end provided with an enlargement which tapers inwardly, means on the opposite end of the member to hold hair adjacent the scalp, and a coil spring slidable on the member and engageable over and with the hair to hold the latter on the member, said spring having its outer end of a diameter to engage with said tapered enlargement of the member to frictionally hold the spring against sliding movement during wrapping of the hair on the member.

10. In a hair waver or curler, a member formed to have hair engaged therewith, a coil spring slidable on the member of a diameter to have a plurality of its coils engage with and about the free end of the hair so as to hold the hair on the member, and means on the rod to hold the spring against sliding during engagement of the hair with the member.

11. In a hair waver or curler, a member

formed to have hair engaged therewith, and a coil spring slidable on the member and being of a diameter to have a plurality of its coils engage with and about the free end of the hair so as to clamp the hair by and between the member and spring so as to hold the hair on the member.

In testimony whereof, I affix my signature.

VINCENT N. NICOSIA.