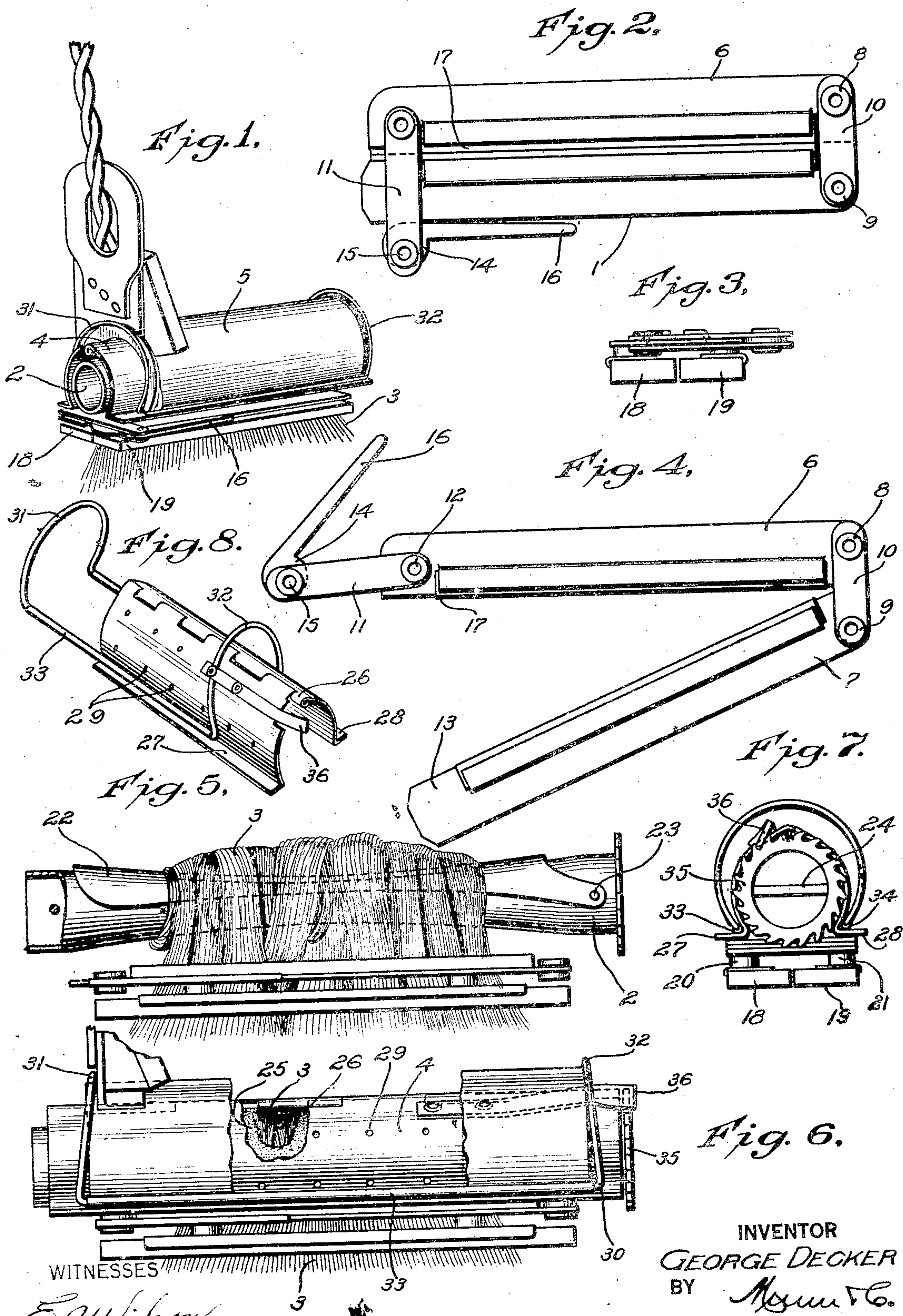


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HAIR WAVING OUTFIT
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WITNESSES

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UNITED STATES PATENT OFFICE.

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HAIR-WAVING OUTFIT.

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This invention relates to a hair waving apparatus, and particularly to an outfit for waving the hair from a point close to the scalp to the outer end.

5 The object of the invention is to provide an improved hair waving outfit, wherein an efficient waving is secured and wherein adjustment may be made before or after the parts have been assembled preparatory to receiving the heat.

10 A further object of the invention is to provide a hair waving outfit with an improved structure capable of winding the hair from a point close to the scalp after the moistening pad and heating element have been placed in position.

A still further object of the invention is to provide an improved hair waving outfit designed to extend substantially parallel with the scalp when the hair is receiving the waving treatment.

In the accompanying drawing—

Figure 1 is a perspective view of a hair waving outfit or apparatus, disclosing an embodiment of the invention;

Figure 2 is a plan view of a clamp, embodying certain features of the invention.

Figure 3 is an end view of the clamp shown in Figure 2.

30 Figure 4 is a view similar to Fig. 2, but showing the clamp in an open position.

Figure 5 is a side view of a coil rod and certain associated parts in operative position.

Figure 6 is a side view with certain parts broken away of the structure shown in Figure 1, the same being on an enlarged scale.

Figure 7 is an end view of the structure shown in Figure 6.

40 Figure 8 is a detail perspective view of a shell and clamp, embodying certain features of the invention.

Referring to the accompanying drawing by numerals, 1 indicates a clamp embodying certain features of the invention, the same being designed to be used in connection with a coil rod 2 which receives any suitable form of moistening pad. After the moistening pad has been placed in position over the coil of hair 3, a clamping shell 4 is placed in position and then a heating element 5 is placed in position over the shell 4. The clamp 1 is formed with members 6 and 7 pivotally connected at 8 and 9 respectively, to the link 10. A link 11 is pivotally connected at 12 to the member 6, said link be-

ing double and adapted to straddle the end 13 of member 7 when the clamp is closed. An eccentrically mounted cam 14 is pivotally connected at 15 to link 11, said cam having a handle 16 whereby after the members 60 6 and 7 have been moved as near together as possible, handle 16 may be swung around to substantially the position shown in Figure 2. This will cause the clamp to firmly grip the strands of hair making up coil 3. 65 Each of the members 6 and 7 is preferably provided with a yielding clamping pad 17 held in place by any suitable means. Associated with the respective clamping members 6 and 7, are spacing bars 18 and 19, 70 said bars being of wood or other desired material and connected to the members 6 and 7 by suitable spacing columns 20 and 21. The members 18 and 19 act as clamping means in addition to spacing means, though 75 preferably, the clamping action is not as great as the clamping action produced by members 6 and 7.

When the clamping device 1 is to be used, a certain bunch of hair is grasped by the 80 hand of the operator and spread out, after which the clamp is placed in position as shown in Figure 5. In placing the clamp in position, it is placed as near the scalp as possible. The outer end of the bunch of 85 hair is then placed under the pivotally mounted clamping arm 22. This arm is held pivotally in position by a spring 23 which preferably extends entirely through the coil rod 2 and forms a turning member 24 adapted to receive a wrench hereinafter fully de- 90 scribed, whereby rod 2 may be rotated. Rod 2 is shown as a hollow rod, but it might be solid if desired. After the end of the hair has been placed beneath the clamping arm 95 22, rod 2 with its arm 22, is rotated until a coil is provided as indicated by the coil 3 in Figure 5. After the hair has been prepared in this manner, a pad 25 having suitable chemicals more or less in a liquid state, 100 is applied to the coil 3 and clamped in position in any desired manner. The placing of pads on coils of hair is well known and any of the methods now in use might be used, or the pad might be merely laid over coil 105 3 to substantially cover the same and then the clamping or retaining shell 4 forced over coil 3 and also over the rod 2 so that the parts will appear as shown in Figures 6 and 7. The clamping shell 4 is a pair of arc- 110

shaped plates connected by a suitable hinge 26 and provided with laterally extending flanges 27 and 28. This shell is formed with a series of perforations or holes 29 and acts to hold the pad 25 firmly in position, while allowing a circulation of vapor through the holes 29. After the shell 4 has been placed in position, a spring holder 30 is snapped over the shell 4 as shown in Figures 6 and 7, said holder having looped spring ends 31 and 32 and at the sides having enlarged side clamping sections 33 and 34. These enlarged sections 33 and 34 consist of preferably a tube slipped onto bent ends of the loops 31 and 32, and in this way the two hinge plates of shell 4 are caused to snugly fit and partly surround the coil 3 as indicated in Figure 7. After the parts have been thus assembled, if it should be desired to tighten the coil 3 or to cause the same to move downwardly to a point near the scalp so as to treat the hair very near the scalp, a suitable forked wrench may be inserted into the rod 2 so as to straddle the member or bar 24. After this has been done, the bar 22 may be rotated and coil 3 tightened and also all the parts moved down to a point near the scalp. To prevent the coil 3 from unwinding, the rod 2 is provided with a ratchet wheel 35 which engages a spring pawl 36, said pawl being riveted or otherwise secured to shell 4 and when in operative position, acts to prevent a reverse movement of lever 35 and rod 2. After the shell 4 and the clamping structure 30 have been placed in position, the coil 3 may be tightened or operated on as just described, and after this has been done, the heater 5 may be applied by merely forcing the same downwardly over shell 4 until it assumes the position shown in Figures 1 and 7. Different bunches of hair over the head are treated in the way just described, and after all of the hair has been coiled and positioned as shown in Figures 1 and 5 to 7 inclusive, the heat is turned onto the heater 5 and left on for the desired time. The heater 5 is an electric heater of any approved type and is made partly cylindrical so as to readily fit over shell 4. This heater need not fit snugly over shell 4 but preferably the lower edges rest snugly against the flanges 27 and 28 so that the heat is confined to the point desired. It is understood that heat is applied to all of the coils at the same time, and after the heat treatment, the various members above described are removed and the treatment has been completed.

What I claim is:

1. In a hair waving outfit, a clamp comprising a pair of members hingedly connected together at one end, disengageable means for connecting the opposite ends together

said disengageable means including an eccentrically mounted cam, a pair of protecting bars, and means for connecting one protecting bar with each of said members, said protecting bars conforming to the size and shape of said members.

2. In a hair waving outfit, a coil rod for receiving a coil of hair, a foraminous shell removably fitted over said coil, said shell being in two parts hingedly connected together, each part having a flange at the free edge, a spring holder acting to clamp said shell in place, said holder being formed with a spring loop at each end and connecting rods fitting against said flanges, a ratchet wheel connected with one end of said coil rod, a pawl carried by said shell and engaging said ratchet wheel for preventing the rotation of said coil rod in one direction, and means carried by the coil rod adapted to receive a wrench for rotating the coil rod in one direction so as to bring the hairs of said coil under tension.

3. A hair waving outfit, comprising a clamp for clamping a bunch of hair near the roots, a coil rod for receiving and coiling said hair to produce a coil of hair, a moisture carrying pad mounted on said coil of hair, a foraminous shell fitted over said pad, a spring holder straddling said shell acting to press the shell snugly against said coil of hair, said rod being rotatable for bringing said hair under tension, means for preventing a reverse rotation of said rod, and heating means removably mounted over said shell.

4. In a hair waving outfit, a clamp comprising a pair of metallic members hingedly connected together at one end, swinging disengageable means connecting the opposite ends together, a pair of protecting bars formed of substantially non-heat conducting material, and means for connecting one protecting bar to each of said members, said protecting bars conforming to the size and shape of said members, said last mentioned means being formed to space the protecting bars from said members.

5. A clamp of the character described comprising a pair of arms articulately connected together at one end of the clamp, a pair of links pivotally connected at one end to the free end of one of said arms, said links being adapted to be positioned to embrace the end of the other arm, a latching lever pivotally connected to the free end of said links, said latching lever having a cam end engageable with the end of the arm inserted between the links and operative to press said arms together.

GEORGE DECKER.

DISCLAIMER

1,683,531.--*George Decker*, Cleveland, Ohio. HAIR-WAVING OUTFIT. Patent dated September 4, 1928. Disclaimer filed April 4, 1933, by the assignee, *The Philad Company*.

Disclaimer is hereby entered to claims 1, 4, and 5 in the above identified Letters Patent, the said claims being in the following words, to wit:

"1. In a hair waving outfit, a clamp comprising a pair of members hingedly connected together at one end, disengageable means for connecting the opposite ends together said disengageable means including an eccentrically mounted cam, a pair of protecting bars, and means for connecting one protecting bar with each of said members, said protecting bars conforming to the size and shape of said members."

"4. In a hair waving outfit, a clamp comprising a pair of metallic members hingedly connected together at one end, swinging disengageable means connecting the opposite ends together, a pair of protecting bars formed of substantially non-heat conducting material, and means for connecting one protecting bar to each of said members, said protecting bars conforming to the size and shape of said members, said last mentioned means being formed to space the protecting bars from said members."

"5. A clamp of the character described comprising a pair of arms articulately connected together at one end of the clamp, a pair of links pivotally connected at one end to the free end of one of said arms, said links being adapted to be positioned to embrace the end of the other arm, a latching lever pivotally connected to the free end of said links, said latching lever having a cam end engageable with the end of the arm inserted between the links and operative to press said arms together."

[*Official Gazette April 25, 1933.*]