

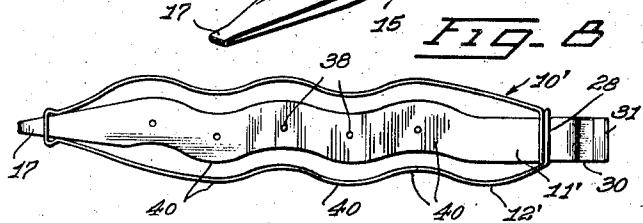
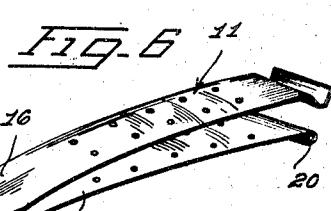
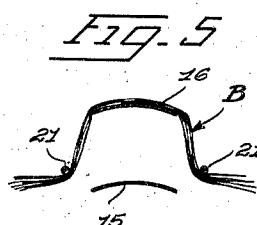
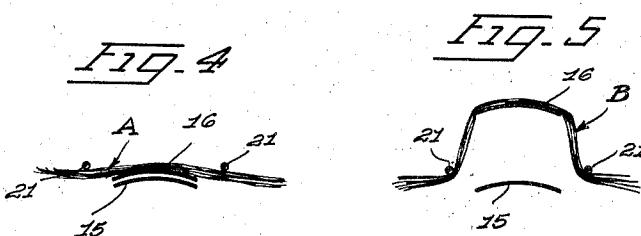
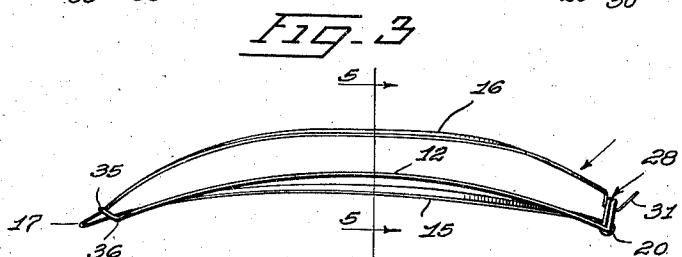
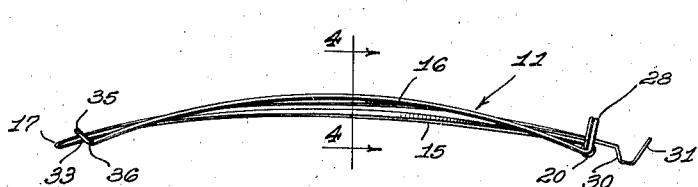
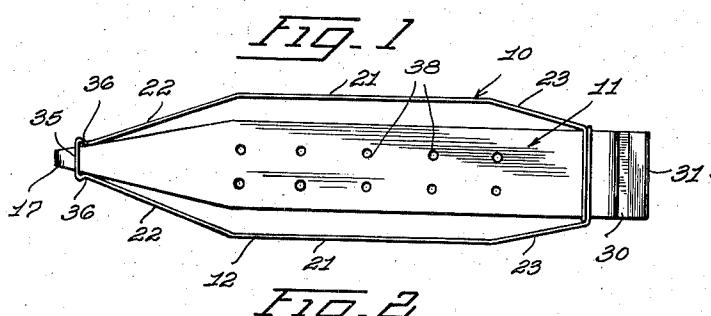
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HAIR WAVER

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HAIR WAVER

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12 Claims.

(Cl. 132—41)

This invention relates to devices or appliances for the waving of hair, and is similar in its basic nature and purpose to the invention forming the subject of my prior U. S. Patent No. 2,002,487. 5 In that patent, there is described and illustrated a hair waver comprising essentially a pair of hinged members between which a lock of hair is clamped, means being provided to secure the free ends of the two pivoted members together 10 when in clamping position. One of the members is provided with means arranged to be laterally extended or distorted with respect to the other member whereby a wave or undulation is formed in the lock of hair. 15 The general object of the present invention is to provide a hair waver of this same general type which is of simplified construction, consisting of a very small number of parts; the device being thus rendered extremely easy and economical to 20 manufacture and to be readily applied to the hair in use.

More specifically, it is an object of the present invention to provide a device of this character in which the extensible or expandable member is 25 made in one piece and in which both members are so constructed as to make it very easy to assemble and to operate the device. Another object is to provide novel and improved means for hingedly connecting the parts and providing 30 a guide and catch arrangement for the relatively movable and expandable portion of the one-piece body member of the device. A further object is the provision of novel means for latching the free ends of the members together when the hair 35 is being raised into a wave.

A still further object of the invention is to provide a hair waver of this type which is provided with transverse curves or undulations for imparting a flat wave of greatly improved appearance to the hair.

Other objects and features will be apparent from the following specification when read in connection with the accompanying drawing in which certain embodiments of my invention are 45 illustrated by way of example.

In the drawing,

Figure 1 is a plan view of a novel hair waver embodying the principles of my invention;

Figure 2 is a view in side elevation of the same, prior to the extension of the expandable member;

Figure 3 is a similar view showing the body member in its expanded position;

Figure 4 is a view in transverse vertical section 55 taken on line 4—4 of Figure 2, showing the con-

vex surface which gives rigidity to the central portion of the upper member;

Figure 5 is a similar view taken on line 5—5 of Figure 3, and showing the device in expanded position and illustrating its waving effect on a 5 lock of hair;

Figure 6 is a perspective view of the one-piece expandible body member;

Figure 7 is a fragmentary perspective view of the other pivoted member, the means of connection with the expandible member being clearly shown; and

Figure 8 is a plan view of a modification of the invention, both members being provided with curves in a substantially horizontal plane.

The device illustrated in Figures 1 to 7 of the drawing is designated generally by the numeral 10 and is composed of two parts, the plate-like body member 11 and a looped wire member 12. The member 11, as illustrated to best advantage in Figure 6, is formed from a blank which is narrowed at a point intermediate its length and bent double to provide a lower plate member 15 and a similarly formed upper plate member 16, both of these members preferably being very 25 slightly bowed in a longitudinal direction, even when in their unexpanded position shown in Figure 2. The lower member 15 is also convexed transversely, as will be seen in Figures 4 and 5, in order to make it substantially rigid, and the upper member 16 is similarly convexed at its intermediate portion so as to impart rigidity to this portion but to leave the tapered forward end and the rearward locking end flexible.

The bend in this member 11 at its narrowed portion provides a somewhat pointed nose 17 for the device, which is of sufficient streamline configuration to assist in its ready application to the hair and to cooperate with the wire member 12 for latching the two members together, as will be fully explained hereafter. This body member 11 may be made of any suitable material, such as spring metal or some plastic material such as Celluloid or the like.

The rear end of the lower plate 15 of the body member 11 is rolled as at 20 to provide a tubular substantially cylindrical portion for the reception of portions of the wire member 11 to provide the pivotal connection between the two members. The member 12 is formed of a wire, or other 50 attenuated resilient material, bent double so as to provide substantially parallel side portions 21, converging forward portions 22, and rear portions 23 which are also somewhat convergent. The free ends of the wire member 12 are bent 55

to form two substantially looped portions 28 having hooked ends, as clearly shown in Figure 7 of the drawing, each of the wire ends being bent upwardly as at 24 and then transversely across the device in spaced relation with the rolled end 20 of the portion 15, as at 25. Then the ends are bent downwardly as at 26 and inwardly for short distances at 27. These inwardly bent ends 27 are inserted in the ends of the cylindrical rolled portion 20, the initial expansible tendency of the wire serving to keep them firmly in place.

The free end of the upper portion 16 of the member 11 extends beneath the double loop 28 thus formed in the wire element as clearly shown in Figure 2 and Figure 3 of the drawing, the end of the member 16 being provided with a substantially U-shaped bend as at 30, the termination of this portion being directed upwardly and outwardly as at 31 to form a manipulative part or handle for the actuation of the device. The bent portion or notch 30 is adapted to cooperate with the doubled loop formed in the wire member, as will be explained when the operation of the device is described.

The forward end of the wire element 12 is curved upwardly as at 33 and is provided with a straight transverse portion 35 at the extreme forward part, this portion 35 being somewhat wider than the part of the nose 17 above which it is at rest. Just rearwardly of the portion 35, both sides of the wire member adjacent the bend indicated rearwardly of the rising portion 33, are bent slightly inwardly to conform with the width of the nose 17 at that part shown at 36 in Figure 1.

This arrangement provides a very simple and effective latching means for securing the wire member 12 to the nose 17 of the plate-like expansible member 11. When said member is raised in forming the wave, the forward flexible end of it represented by nose 17 is curved upward and moved forward, thus offering a broader surface, which enters the wider space of the wire portion 35 and locks the wire automatically to the member 11, preventing the wire from being lifted up by the hair in forming of the wave.

In the application and use of the device, the wire member 12 is swung back and the knife-like, streamline waver, represented by members 11 and 12, is inserted in the dampened hair as shown in Figure 4. The wire member 12 is then folded down and held in that position while the end projection 31 of the upper portion 16 of the plate member is pushed forwardly until the U-shaped portion 30 snaps upwardly upon the double loop 28 formed by the bent ends of the wire member, as clearly shown in Figure 3. The wave or undulation is thus formed by the upper portion 16 of the plate member being bowed and distorted upwardly, and being disposed beneath the lock of hair A, which is confined by the side portions 21 of the wire member 12, the wave or undulation B is impressed in the hair as illustrated in Figure 5 of the drawing.

When the hair is dry, the operator presses down on the expanded upper member 11 nearest the pivotal point of the wire at 28 as indicated by the arrow, Figure 3, and the member 16 will snap back to its original position at the same time releasing automatically the wire member 12, which is then swung back. The waver is now free to be withdrawn without disturbing in the slightest degree the wave which has been formed.

In Figure 8 of the drawing, there is shown a waver 10' of the same general construction and operation as the example just described, but in

which both the plate-like body member 11' and the wire frame-like member 12' are given a wavy configuration as indicated at 40. These transverse curves or waves 40 are similarly arranged in both elements and serve to apply a flat or horizontal undulation to the lock of hair at the same time that the main vertical wave is being applied by the expansion of the body member 11'.

There has thus been provided by means of the present invention a very simple hair waver device of the class described and one which may be produced at low cost; other important features of the device being the extremely simple means for pivoting the essential elements together and latching them in applied position.

It will be understood that various changes and alterations can be made in the device as illustrated and described herein without departing from the scope of the invention as defined by the following claims.

Having thus described the invention, what is claimed as new and desired to be secured by Letters Patent is:

1. A hair waving appliance comprising a pair of elongated members having corresponding ends hingedly connected together, and between which the hair to be waved may be freely inserted, one of said members being formed of a single piece of flexible sheet material bent intermediate its length upon itself to provide a doubled strip, the other of said members having means at its free end for interlocking with the bent end of the doubled member to secure the members together in clamping position upon the lock of hair.

2. A hair waving appliance comprising solely a pair of elongated members adapted to normally assume a substantially parallel relation and between which the hair to be waved may be freely inserted, each of said members consisting of a single piece of material and having one end hingedly connected with the corresponding end of the other member, one of said members comprising a strip of sheet material bent upon itself at an intermediate point to provide two substantially parallel lengths of material, the other of said members being pivotally attached to the end of one length of said strip and provided with means for latching engagement with the other length when the latter is bowed away from substantial parallelism with said first named length, and means for detachably connecting the bent free end of said strip member to the free end of the other member.

3. A hair waving appliance comprising a pair of elongated members having corresponding ends hingedly connected together, and between which the hair to be waved may be freely inserted, one of said members comprising an approximately oblong loop of resilient material and the other of said members being formed of an elongated strip of flexible sheet material transversely bowed at its intermediate portion, one end of said strip member being formed with a rolled edge within which the ends of the material forming said other member are adapted to be pivotally received.

4. A hair waving appliance comprising a pair of elongated members having corresponding ends hingedly connected together, and between which the hair to be waved may be freely inserted, one of said members comprising an approximately oblong wire loop and the other of said members being formed of an elongated strip of flexible sheet material, the strip member being provided with a tapered or convergent free end and the

free bight end of the loop member being formed with inwardly directed shoulders whereby the free bight end of said member is locked automatically to the tapered end of the other member and retained there securely while the wave is formed.

5. A hair waving appliance comprising a pair of elongated members having corresponding ends hingedly connected together, and between which the hair to be waved may be freely inserted, one of said members comprising an approximately oblong wire loop and the other of said members being formed of an elongated strip of flexible sheet material, one end of said strip member being formed with a rolled edge within which the ends of the wire forming said other member are adapted to be pivotally received, the strip member being provided with a tapered or convergent free end, and the free bight end of the loop member being formed with inwardly directed shoulders whereby the free bight end of said member is locked automatically to the tapered end of the other member and retained there securely while the wave is formed.

25 6. A hair waving appliance comprising a pair of elongated members adapted to normally assume a substantially parallel relation and between which the hair to be waved may be freely inserted, one of said members comprising a piece of sheet material folded at an intermediate point to provide two substantially parallel strips, the folded end of said member being tapered, the other member being pivotally secured to the sheet member at the end opposite to the bend and provided with a shouldered bight at its free end adapted to receive the tapered and folded end of the first named member.

40 7. A hair waving appliance comprising a pair of elongated members adapted to normally assume a substantially parallel relation and between which the hair to be waved may be freely inserted, one of said members comprising a piece of sheet material folded at an intermediate point to provide two substantially parallel strips, the other of said members comprising an elongated wire loop having its bight end adapted to be detachably connected with the folded end of the first named members and formed with a transverse arched portion adjacent one of its free ends 45 which is spaced from and substantially parallel with the free end of one of said strips, said end of the strip being provided with a rolled edge adapted to pivotally receive one of the free ends of said wire loop member, the other of said strips 50 adapted to extend between the first named strip and said transverse portion of the loop member and provided with retaining means adapted to engage with said transverse portion to hold said second named strip in outwardly bowed relation 55 to said first named strip.

60 8. A hair waving appliance comprising a pair of elongated members having corresponding ends hingedly connected together, and between which the hair to be waved may be freely inserted, one of said members comprising an approximately oblong wire loop and the other of said members being formed of an elongated strip of flexible sheet material, the side portions of said oblong wire loop member being normally disposed adjacent to and parallel with the side margins of said strip member, each of the free end portions of the wire loop member being arched over the adjacent end of the strip member from one side to the other thereof and having their ex-

treme ends pivoted to the strip member at the opposite side thereof from the respective side portions.

9. A hair waving appliance comprising a pair of elongated members having corresponding ends hingedly connected together, and between which the hair to be waved may be freely inserted, one of said members comprising an approximately oblong wire loop and the other of said members being formed of an elongated strip of flexible sheet material, the side portions of said oblong wire loop member being normally disposed adjacent to and parallel with the side margins of said strip member, each of the free end portions of the wire loop member being arched over the adjacent end of the strip member from one side to the other thereof and having their extreme ends pivoted to the strip member at the opposite side thereof from the respective side portions, said strip member being provided with a portion extending generally parallel with the main portion of the strip but adapted to be bowed away therefrom in use, said portion disposed beneath the arched end portions of the wire loop member and having means thereon adapted to engage said arched portions to hold it in bowed position.

10. A hair waving appliance comprising elongated inner and outer hair confining members between which hair to be waved may be freely inserted, one of said members having an element shiftable toward the other member to cause hair so inserted and confined to be closely engaged between said element and said other member, the hair engaging edges of both of said members being transversely undulated.

11. A hair waving appliance comprising a pair of elongated members having corresponding ends hingedly connected together, and between which the hair to be waved may be freely inserted, one of said members being formed of a single piece of flexible sheet material bent intermediate its length upon itself to provide a doubled strip, one of said strips adapted to be bowed away from the other strip and from the plane of the other member to impart a vertical wave to the hair, the hair engaging margins of all of said members being similarly undulated in transverse planes, whereby a horizontal wave effect may also be applied to the hair.

12. A hair waving appliance comprising a pair of elongated members having corresponding ends hingedly connected together, and between which the hair to be waved may be freely inserted, one of said members comprising a strip of flexible sheet material and the other comprising a substantially oblong wire loop having one end pivoted to the corresponding end of said first named member, the other end detachably engaged with the other end of said first named member, and the side portions of the loop disposed in approximately the same plane as the strip member but spaced laterally therefrom to provide space for the lock of hair, said strip member being provided with a portion adapted to be bowed away from the main portion thereof and from the plane of the wire loop member to impart a vertical wave to the confined lock of hair, the hair contacting margins of both portions of said strip member and of both side portions of the loop member being provided with similarly arranged corrugations for applying a horizontal wave effect to the hair.

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