

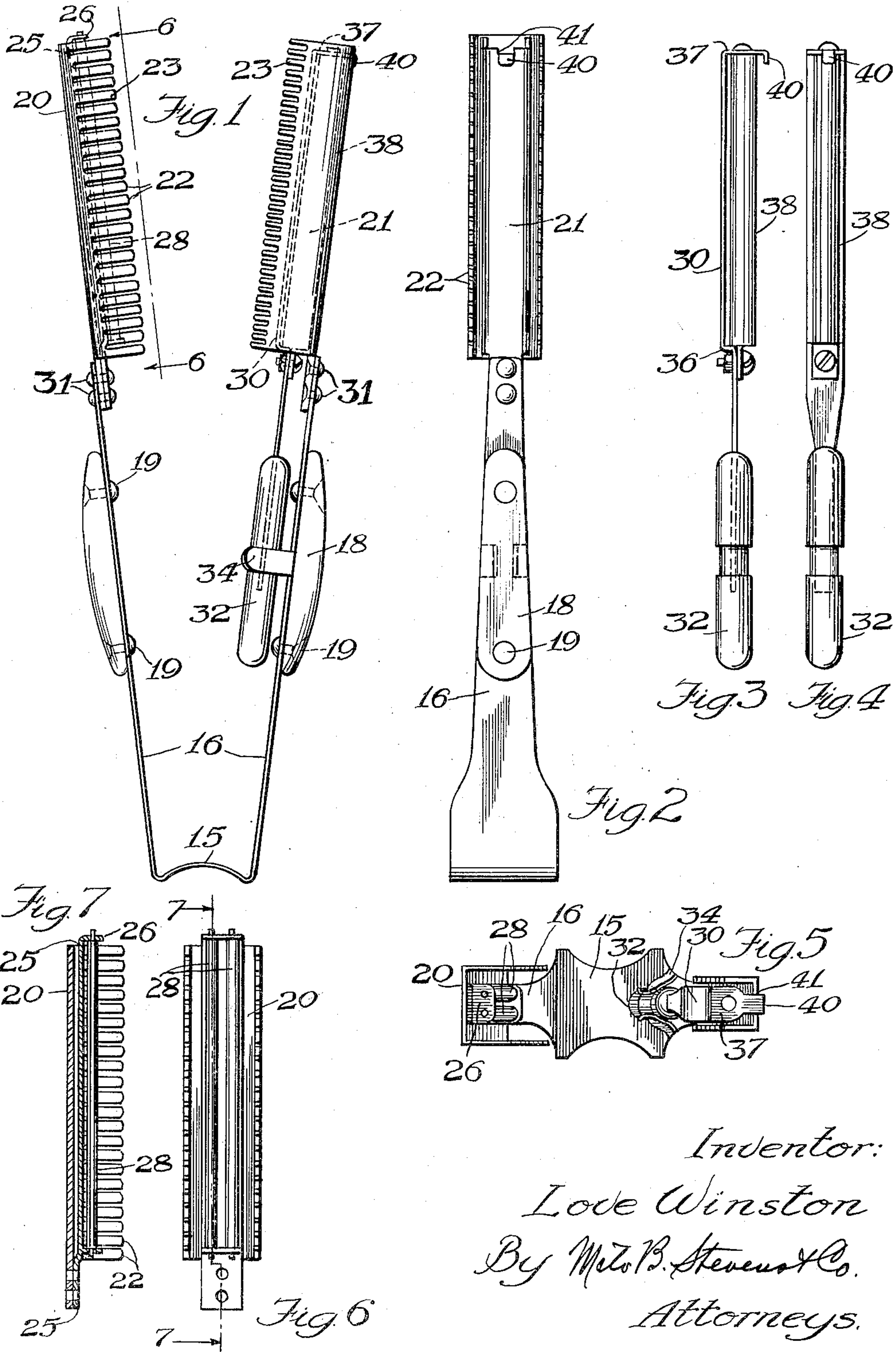
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HAIR STRAIGHTENING DEVICE

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HAIR STRAIGHTENING DEVICE

Love Winston, Chicago, Ill.

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4 Claims. (Cl. 132—14)

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My invention relates to devices for straightening hair which is curly, kinky or unruly, and one object is to provide a hand operated implement for this purpose which is highly efficient.

A further object is to design the novel device in the manner of tongs, so that it may be open and out of engagement with the hair until its use is desired.

Another object is to construct the device with a unit which is removable for heating and replaceable when the device is ready for use.

An additional object is to construct the device along lines of neatness and simplicity.

With the above objects in view, and any others which may suggest themselves from the description to follow, a better understanding of the invention may be had by reference to the accompanying drawing, in which—

Fig. 1 is a front elevation of the device;

Fig. 2 is a view from the right-hand side of Fig. 1;

Fig. 3 is an elevation of the removable unit previously referred to;

Fig. 4 is a side view of the unit;

Fig. 5 is a top plan view of Fig. 1;

Fig. 6 is a section on the line 6—6 of Fig. 1; and

Fig. 7 is a section on the line 7—7 of Fig. 6.

In accordance with the foregoing, specific reference to the drawing indicates the handle of the device at 15, the same being of spring sheet metal and extended with a pair of divergent arms 16 which are tensionable toward each other. The arms carry wooden blocks 18, secured by rivets 19 on the outside, the blocks being for cool contact when the handle is taken into the hand after the device has been heated.

The arms 16 are extended with a pair of facing channels 20 and 21, the sides of these having teeth 22 and 23 respectively; and the channel 21 is of slightly less width than the channel 20 to fit into the latter when the blocks 18 are squeezed in the hand.

The channel 20 receives a strip 25 on the inside whose out-turned ends 26 journal a pair of rollers 28 side by side. The channel 21 receives a separate unit 30 along its inner side. This unit is a long strip carrying a handle 32 at its inner end. The handle 32 is held to the related arm 16 by a clip 34. The handle 32 is of wood or other poor heat-conducting material; and the outer portion of the strip 30 is offset as indicated at 36 and 37 to form a holder for a bar 38 of solid metal. The portion 37 of the strip 30 is bent down with a hook 40 which seats in a slot

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41 in the free end of the channel 21, securing the unit 30 in such channel.

When the novel device is to be used, the unit 30 is removed from the channel 21 by unhooking it at the top and withdrawing the handle 32 from the clip 34. The unit 30 is then placed over a gas flame or other fire with the bar 38 in the path of the flame, whereby to heat the bar; and the unit is then re-inserted into the device to the position shown in Fig. 1. In the application of the device, it is gathered by pressure on the handles 18 to cause the combs 22 and 23 to close on a lock of hair. The latter will thus become lodged between the sections 20 and 21 and be engaged by the rollers 28 and the strip 30. The device is then drawn cross-wise of the hair while the latter is ironed, so to speak, between the rollers and the strip. The effect is to straighten any curls or kinks which the hair may contain. When the end of the hair lock is reached, the pressure on the device may be released to separate the sections 20 and 21 and leave the lock free, the operation being repeated in respect to more locks until the bar 38 has cooled off and requires re-heating.

Since the channels 20 and 21 are of plain metal, they are made separate from the spring metal handle 15 and therefore secured to the latter by rivets 31 as shown. Also, since the channel 20 is on the outside of the channel 21 when the channels close, such channel 20 stays relatively cool and may be held close to or in touch with the head of the user without harm from the heat developed in the hair-engaging zone.

It is now apparent that the novel device is a simple and easily applicable means to engage the hair and iron the same flat with a drawing action under heat. Owing to the free rotation of the rollers 28, the said action will not pull on the hair or cause discomfort; and the heated element is encased, protecting the hair or skin from being burned or made uncomfortable by heat.

While I have described the invention along specific lines, various minor changes or refinements may be made therein without departing from its principle, and I reserve the right to employ all such changes and refinements as may come within the scope and spirit of the appended claims.

I claim:

1. A hair-straightening device comprising in combination a handle formed with a pair of arms to close toward each other, one arm having attached thereto at its end a U-shaped channel having toothed sides, a plate mounted in the bot-

tom of said channel, a plurality of rollers mounted on said plate longitudinally of the channel, the other arm having attached thereto a U-shaped channel having toothed sides, a removable heating iron fitted in said latter channel, and one channel being narrower than and movable within the other when the straightener is closed.

2. A hair-straightening device comprising in combination a handle formed with a pair of arms to close toward each other, one arm having attached thereto at its end a U-shaped channel having toothed sides, a plate mounted in the bottom of said channel, a plurality of rollers mounted on said plate longitudinally of the channel, the other arm having attached thereto a U-shaped channel having toothed sides, a removable heating iron fitted in said latter channel, and the width of the iron-carrying channel being less than that of the roller-carrying channel to render the iron-carrying channel movable within the sides of the roller-carrying channel when the straightener is closed.

3. A hair-straightening device comprising in combination a handle formed with a pair of arms to close toward each other, one arm having attached thereto at its end a U-shaped channel having toothed sides, a plate mounted in the bottom of said channel, a plurality of rollers mounted on said plate longitudinally of the channel, the other arm having attached thereto a U-shaped channel having toothed sides, a removable heating iron fitting said latter channel, the width of the iron-carrying channel being less than that

of the roller-carrying channel to render the iron-carrying channel movable within the sides of the roller-carrying channel when the straightener is closed, a clip on the inside surface of said other arm, and a handle on the heating iron removably lodged in said clip.

4. A hair-straightening device comprising a substantially U-shaped spring tensioned handle, toothed U-shaped members attached to the respective handle ends, rollers mounted longitudinally adjacent the inside base portion of one of the U-shaped ends, a removable heating iron mounted within the other U-shaped member, one of said U-shaped members being narrower than and movable into interfitting relation with the other U-shaped member when the handle ends are gathered to clamp a lock of hair between said rollers and heating iron.

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