May 27, 1941. C. KARASIEWICZ 2,243,635

CURLING AND CRIMPING DEVICE

Filed Jan. 4, 1941

Fig. 1.

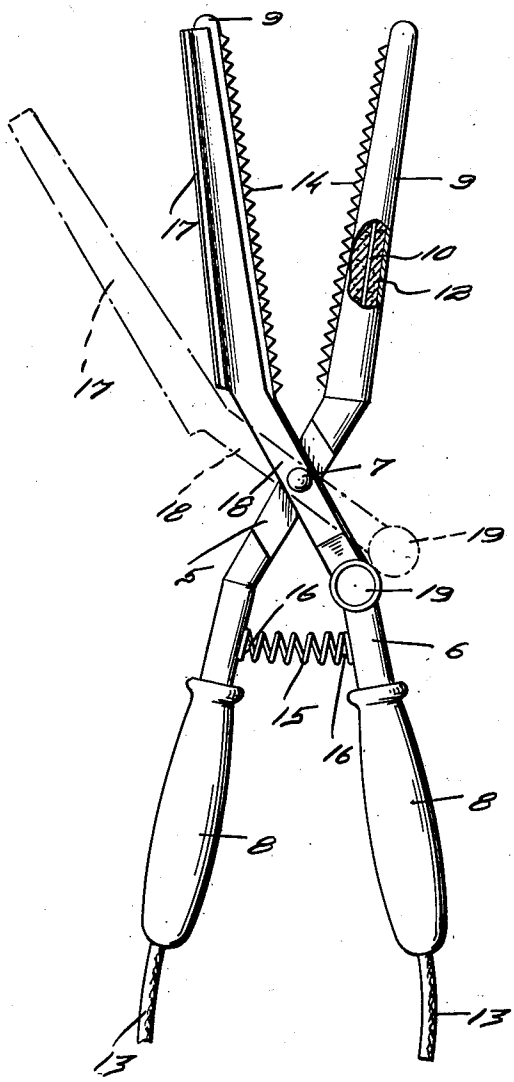


Fig. 2.

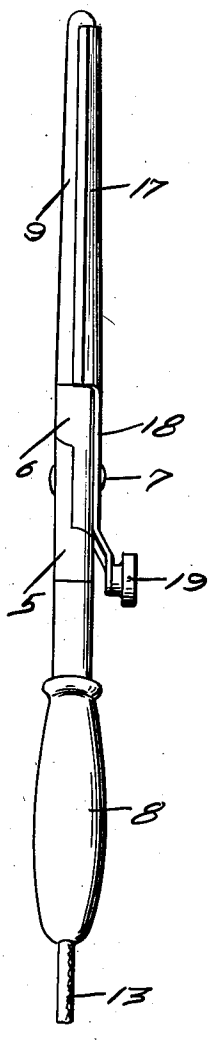
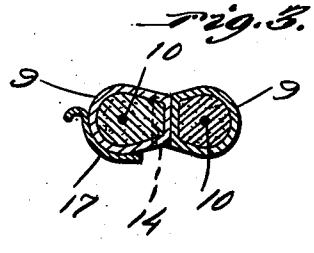


Fig. 3.



Inventor

Cornelia Karasiewicz

By Clarence A. O'Brien

Attorney

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CURLING AND CRIMPING DEVICE

Cornelia Karasiewicz, Highland Park, Mich.

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3 Claims. (Cl. 132—32)

This invention is an electric curling and crimping device designed for crimping and curling the hair, and also for crimping and curling such household articles as bedspreads, an analogous coverings, window curtains, and similar articles.

The present invention embodies certain new and useful improvements over the curling and crimping device forming the subject matter of Patent No. 2,103,676 issued to me under date of December 28, 1937.

In accordance with the present invention the device is equipped with means for holding the article being crimped or curled in association with the jaws of the device whereby the use of the hands for this purpose may be dispensed with, thus materially reducing the possibility of accidentally burning the fingers when using the device.

Also, in accordance with the present invention, the device is equipped with means which acts normally to retain the jaws of the device in an open position.

The present invention, together with its objects and advantages, will be best understood from a study of the following description taken in connection with the accompanying drawing wherein:

Figure 1 is a side elevational view of the device in open position and with a portion thereof broken away and shown in section; and also with a clip forming part of the invention shown in one position by full lines and in a second position by broken lines.

Figure 2 is an edge elevational view of the device taken substantially at right angles to Figure 1, and

Figure 3 is a transverse sectional view taken through the jaws of the device and with the device in closed condition.

Referring more in detail to the drawing it will be seen that the device embodies a pair of cross shank members 5, 6 that are pivoted together as at 7.

Each of the shank members is provided at one end thereof with a suitable handle 8 and at a relatively opposite end thereof with a longitudinally tapered jaw 9.

The jaws 9 are hollow and have arranged therein electric heating elements in the form of resistance wires 10 embedded in suitable insulation 12 as shown in Figure 1.

The resistance wires 10 are electrically connected with the wires 13 of an electric cord; the wires 13 of the cord extending through the handles 8 and the respective shanks 5 and 6.

Preferably the jaws 9 are of the cross-sectional shape suggested in Figure 3 so as to have their meeting faces substantially flat as therein shown.

Also the jaws have on their meeting faces interfitting roughened areas or teeth 14, that in the present instance are shown to extend substantially for the full length of the jaws, and serve to effect a positive hold on the article clamped therebetween.

A salient feature of the present invention is in interposing between the shanks 5 and 6 a resilient element that will act on the shanks in a manner to normally urge the jaws 9 apart from one another or to open position. In the present instance such resilient element, indicated by the reference numeral 15, is in the form of a coil spring, the ends of which are suitably engaged with inwardly directed pins or protuberances 16 provided on the shanks 5, 6, adjacent the handles 8.

Another very salient feature of the present invention is in equipping one of the jaws 9 with an elongated tapered clip 17 that is of the cross-sectional shape suggested in Figure 3 to fit conformably against the back side of the associated jaw for clamping between said jaw and the clip 17 the cloth article, as, for example, a bedspread or the like so as to hold such article in engagement with the device during the crimping of such article in a manner to relieve the operator of making use of the fingers for so maintaining the article engaged with the device during such crimping operation.

The clip 14 is formed integral with a shank 18 that is pivoted to the device through the medium of the aforementioned pivot 7 and is equipped at its free end with a knob 19 to be engaged by the thumb, or other fingers of the hand, to facilitate shifting the member 17 toward and away from the associated jaw 9 incidental to clamping the cloth between said jaw and the clip and/or the removing of such cloth from between said jaw and clip.

For curling the hair the device is used substantially in the same manner as the well-known type of hair-curling tongues are used. Strands of hair at the end thereof are clamped between the jaw members 9 and the hair is then wound around the closed jaw members in an obvious manner. Within a comparatively short time the device is released and then with subsequent strands of hair the operation is repeated, and by continuing such operation until the curling of all

the hair has been completed, a wave is given to the hair that will have a reasonable amount of permanency. Where a "tapered" wave in the hair is desired, the device is held vertically, but for a "marcel" wave the device is applied horizontally, and for such a wave, instead of curling but several strands of hair at each operation, as many strands of hair as possible are clamped between the jaws, and then the device is given a half-turn to the right and held in that position for a short period of time and then released. This operation is continued until all the hair has been so waved.

For crimping or ruffling material such as curtain ruffles, bedspreads, the bottoms of dresses, etc., the following operation is performed:

A portion of the material to be crimped or ruffled is first clamped between one of the jaws 9 and the associated clip 17 in an obvious manner. An adjacent portion of the material is, by pressing on the handles 8 against the action of spring 15, clamped between the jaws, the jaws being brought together to securely clamp the material therebetween. The clamping of a portion of the material between the jaw 9 and associated clip 17 with the thumb of the operator bearing on the knob 19, to maintain the clip 17 in clamping position relative to the said jaw 9, serves to hold the material more or less taut while the crimping device is given a half-turn to the right and held in that position for a short period of time, after which the device is released and on a next adjacent portion of the article the operation just described is repeated.

These operations are continued until the crimping or ruffling of the article, or desired parts thereof, has been completed. When completed, a well-tapered ruffle is presented, the tapered ruffle being narrow at the top and wide at the bottom, thus giving a natural appearance to the crimped or ruffled portion of the article. In this connection it will be understood that but the edge portions of bedspreads, curtain trimmings or valances are ruffled or crimped for adding to the attractive appearance thereof.

Also by having a portion of such material clamped between a jaw 9 and the clip 17 during the crimping or ruffling operation, it will not be required, as with the tool in my above identified patent, to make use of one hand of the operator for holding the material more or less taut, this condition of the material being required in order to effect the desired crimping operation to advantage.

It is thought that the manner of using the device, together with its many advantages, will be clear without further detailed description thereof.

While I have herein illustrated and described a preferred embodiment of the invention it is to be understood that I claim all such forms of the invention to which I am entitled in view of the prior art and scope of the appended claims.

Having thus described the invention what is claimed as new is:

1. An electric curling and crimping device comprising a pair of crossed shank members pivoted together, elongated longitudinally tapered jaw members on one end of said shanks, said jaws being adapted to be heated, said jaws having interfitting roughened areas on their meeting surfaces to effect a positive hold on the articles clamped therebetween, and a resilient, normally expansible element secured between said crossed shank members at the end thereof remote from said jaws and serving to cause said shank members to swing relative to one another for urging the jaw members apart.

2. A curling and crimping device comprising a pair of crossed shank members, elongated jaw members connected with one end of the shank members, handles on the other ends of the shank members, the rear edge part of one jaw member being rounded, a third shank member paralleling the shank member of the last-mentioned jaw member, a pivot passing through intermediate portions of the three shank members for pivotally connecting them together, an elongated member connected to one end of the third shank member and of arcuate shape in cross section to engage the rounded part of said jaw member, the third shank member terminating in spaced relation to the handle of the last-mentitoned jaw member and having a handle on its rear end and adapted to be engaged by the finger of one hand of a user gripping the first-mentioned handles.

3. A curling and crimping device comprising a pair of crossed shank members, elongated jaw members connected with one end of the shank members, handles on the other ends of the shank members, the rear edge part of one jaw member being rounded, a third shank member paralleling the shank member of the last-mentioned jaw member, a pivot passing through intermediate portions of the three shank members for pivotally connecting them together, an elongated member connected to one end of the third shank member and of arcuate shape in cross section to engage the rounded part of said jaw member, the third shank member terminating in spaced relation to the handle of the last-mentioned jaw member and having a handle on its rear end and adapted to be engaged by the finger of one hand of a user gripping the first-mentioned handles, that part of the arcuate member which engages the rear side of the jaw member having its rear edge of hook shape in cross section.

CORNELIA KARASIEWICZ.