July 18, 1939. O. C. WILLIAMS 2,166,203

HAIR DRESSING AND CURLING TOOL

Filed Dec. 11, 1937

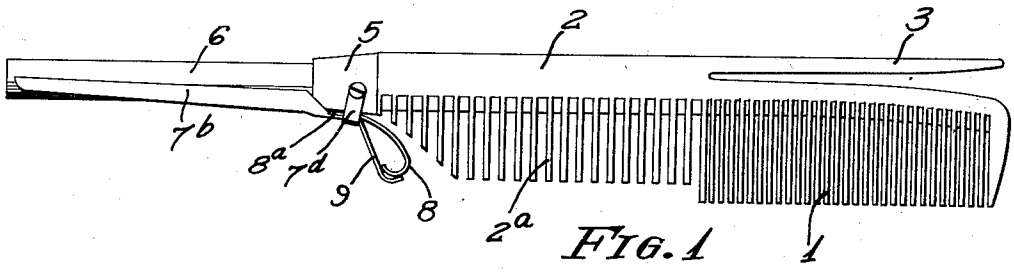


FIG. 1

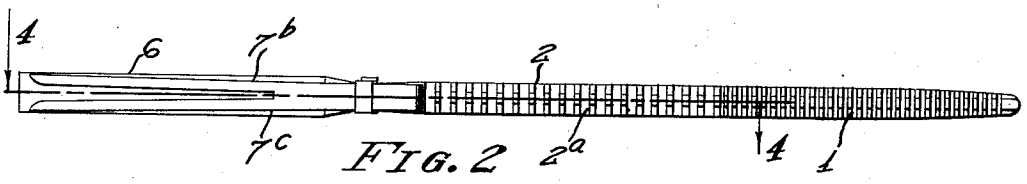


FIG. 2

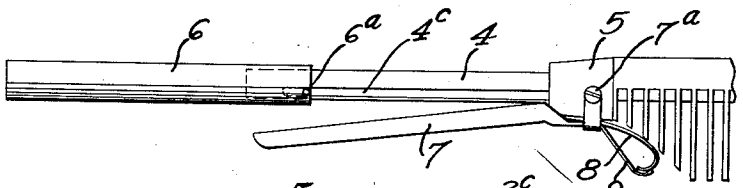


FIG. 3

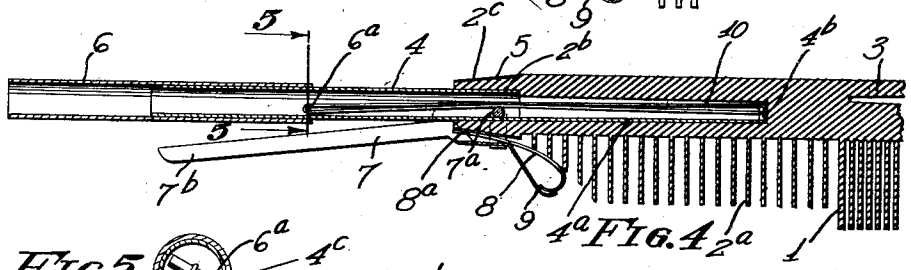


FIG. 4

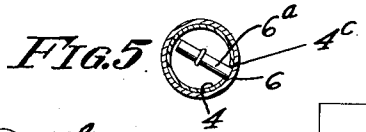


FIG. 5

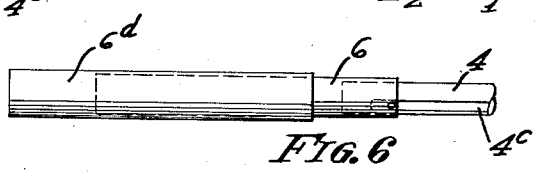


FIG. 6

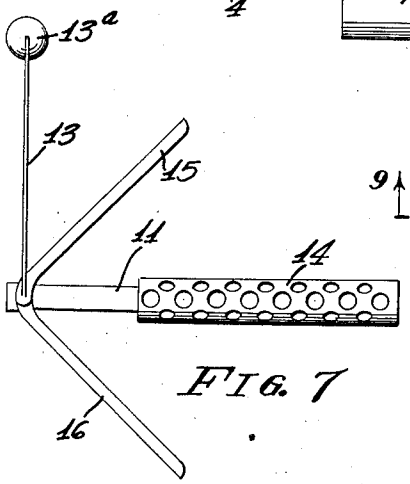


FIG. 7

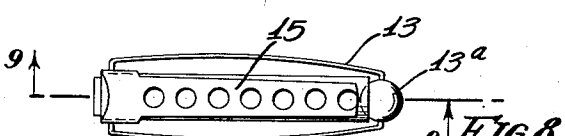


FIG. 8

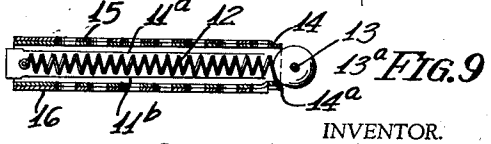


FIG. 9

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HAIR DRESSING AND CURLING TOOL

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16 Claims. (Cl. 132—35)

My invention relates to a hair dressing and curling tool, and the objects of my invention are:

First, to provide a tool for first combing, then parting and preparing the hair and then curling the same;

Second, to provide a curling tool of this class by which, curls of varying sizes may be readily made;

Third, to provide a curling tool by which the curl may be readily and tightly wound and quickly and easily released without disturbing the curl that is formed;

Fourth, to provide a curling tool of this class in which one portion which receives the inner side of the curl is shiftable relative to the outer or clamping portion to provide for the ready release of the curl;

Fifth, to provide a curling tool of this class in which there is resilient means for bringing the tool back to proper curling position after it has been shifted;

Sixth, to provide a tool of this class which may be operated entirely by one hand of the operator for the curling operation;

Seventh, to provide a tool of this class by which either pin curls, otherwise known as flat curls, or bob curls, otherwise known as round curls may be made; and

Eighth, to provide a curling tool of this class which is very simple and economical of construction, easy to operate, efficient in its action, durable, and which will not readily deteriorate or get out of order.

With these and other objects in view as will appear hereinafter, my invention consists of certain novel features of construction, combination, and arrangement of parts and portions as will be hereinafter described in detail and particularly set forth in the appended claims, reference being had to the accompanying drawing and to the characters of reference thereon which form a part of this application in which:

Figure 1 is a side elevational view of my hair dressing and curling tool complete in position ready for preparing and curling hair; Fig. 2 is a bottom edge view at a right angle to that of Fig. 1; Fig. 3 is a fragmentary view showing the curling tool portion and showing the inner hair curling member in extended position for releasing the curl; Fig. 4 is a sectional view taken from the line 4—4 of Fig. 2 but showing the curler in extended position as shown in Fig. 3 of the drawing and showing some of the parts and portions in elevation to facilitate the illustration; Fig. 5 is an enlarged transverse sectional view taken from the line 5—5 of Fig. 4; Fig. 6 is a fragmentary view of one end of the curling tool showing an enlarged inner curling member positioned ready for curling, positioned on the shiftable curling portion; Fig. 7 is a side elevational view of a curling tool in slightly modified form to that of the other views of the drawing shown in open position; Fig. 8 is a top or plan view of the same shown in closed position; and Fig. 9 is a longitudinal sectional view taken from the line 9—9 of Fig. 8.

Similar characters of reference refer to similar parts and portions throughout the several views of the drawing in the preferred form.

The comb member 1, handle member 2, prong member 3, supporting tube member 4, ferrule member 5, curling tube member 6, curling clamp member 7, curling clamp member spring 8, curling clamp member 9, and resilient member 10 constitute the principal parts and portions of my hair dressing and curling tool in its preferred form.

The comb member 1 is a relatively short comb end and provided with an integral handle portion 2 which has blunt irregular teeth 2*a*. Extending from the integral handle portion and spaced from the back portion of the comb member 1 is a prong member 3 which extends forwardly in spaced relation and serves as a prong for parting the hair and at the same time the comb may be turned and the comb teeth used for combing that portion parted out from the main portion of the hair. The handle portion 2 is provided with a longitudinal bore 2*b* in which is tightly mounted the supporting tube member 4. This supporting tube member 4 extends forwardly from the front portion of the handle member 2 some distance as shown best in Figs. 1, 2, and 3 of the drawing. It is provided at its lower side with an extended lug 4*a* which is provided with a hook end 4*b* adapted to receive one end of the resilient member 10 and support the same as shown best in Fig. 4 of the drawing. Secured around the extended end of the handle member 2 is a ferrule member 5 which forms a rigid support for this extended end of the handle member 2, which is tapered at 2*c* and also forms a reinforcing for the handle member for supporting the member 4. Pivotally mounted on the ferrule member 5 is the curling clamp member 7 by means of a screw pin 7*a*. This curling clamp member 7 is a bifurcated member provided with two extending portions 7*b* and 7*c* shown best in Fig. 2 of the drawing. The inner surfaces of these members 7*b* and 7*c* are curved and adapted to fit over the inner curling tube member 6 when it is in its closed position as shown in Fig. 1 of the drawing. The curling clamp member 7 is provided with a support 7*d* which is a bifurcated member

secured to the curling clamp member 7 shown best in Fig. 1 of the drawing. In order to keep the clamp member 7 in closed position there is provided a spring member 8 which is secured at one end at 8a to the member 5 and extends against the member 5 and into engagement with the handle member 9 shown best in Figs. 3 and 4 of the drawing. Thus this spring member 8 tends to hold the member 7 against the member 6 at all times but it may be lowered by pressing handle 9. Telescopically and reciprocally mounted on the supporting tube 4 is the curling tube member 6 which is provided with a pin 6a in one end which is mounted in a slot 4c in the member 4 and forms a guide for the reciprocating curling member 6 and prevents its turning. This pin 6a also provides a support for one end of the resilient member 10. This resilient member 10 tends to hold the reciprocating tube member 6 inwardly on the member 4. In Fig. 6 of the drawing there is shown a larger curling member 6d, thus providing for a larger diameter curl. This member 6d may be snugly fitted to be pressed on the member 6, both of which are hollow cylindrical members, but may be withdrawn when desired.

The operation of the preferred form of construction shown in Figs. 1 to 5 inclusive of the drawing is as follows:

The hair is first combed by using the comb member 1 by grasping the handle member 2, which is flat and wide including the teeth 2a, so that a person can get a firm grip for turning the comb member and the curler member. The teeth 2a may be used for combing to a certain extent. However, these teeth may be done away with and the handle may be made solid in wide narrow form. Then the hair is parted in any desirable place by means of the prong member 3, after which the handle member is turned and the part parted is combed. Then, the combed portion is placed with one end around the member 6 and the clamp member 7 is permitted to rest against the hair; then, by turning the curling tool by means of the handle 2, the hair is rolled around the curling member 6 including the clamp member 7. As soon as the roll is completed the roll is grasped by the thumb and finger of the left hand with slight pressure, while the curler is simply pulled straight out of the curl with the right hand, the action being that the tubular part of the curler is retained in the roll by the pressure on the roll caused by the grip of the left hand until the clamp member is drawn out of the roll. Then by continuing the pull, the tubular member slips out easily without disturbing the finished curl. A bob pin may be pushed in the end of the curler tube straddling the hair and the tube wall before removing the curler, thus holding the curl in place.

In the modified form of construction shown in Figs. 7, 8, and 9 of the drawing, there is provided a supporting member 11, which is a tubular member provided with a slot 11a at one side and a slot 11b at its opposite side, and in this member 11 is mounted a spring 12. This spring 12 is secured at its one end on the inward extending end of a loop lever 13 and at its other end it is secured to the end 14a of the curling tube 14, the spring 12 being a tension spring and tending to hold the members in close relation as shown best in Figs. 8 and 9 of the drawing. The loop lever 13 is provided with a rubber ball 13a on its extended end which is adapted to fit in the open end of the member 14 as shown best in Figs. 8 and 9 of the drawing when in closed position. Mounted on the loop member 13 are a pair of clamping members 15 and 16 which are adapted to rest against the member 14 and when the ball member 13a is in position, provides a curler which is left in the hair until the curl is formed around the curler. It will be noted in this case the curler member 14 is shiftable on the suport 11 so that it may be shifted in relation with the clamping member so that the hair rolled thereon may be readily removed without disarrangement of the curl, the clamping members 15 and 16 being released with the shifting of the member 14 relatively to the clamp members 15 and 16.

Though I have shown and described a particular construction, combination, and arrangement of parts and portions and certain modifications thereof, I do not wish to be limited to this particular construction, combination, and arrangement, nor to the modifications thereof, but desire to include in the scope of my invention the construction, combination, and arrangement substantially as set forth in the appended claims.

Having thus described my invention, what I claim as new and desire to secure by Letters Patent is:

1. In a hair dressing and curling tool, a handle member provided with a longitudinal bore therein, a supporting tube member secured in said bore and extending some distance from one end, a hair clamping member pivotally mounted on said handle and a curling tube conforming with the exterior of and reciprocally mounted on said supporting tube member and under said hair clamping member.

2. In a hair dressing and curling tool, a handle member provided with a longitudinal bore therein, a supporting tube member secured in said bore and extending some distance from one end, a hair clamping member pivotally mounted on said handle member, a curling tube reciprocally mounted on said supporting tube member, and a resilient member in operative relation with said curling tube and with said supporting tube, tending to hold said curling tube inwardly on said supporting tube.

3. In a hair dressing and curling tool, a handle member provided with a longitudinal bore therein, a supporting tube member secured in said bore and extending some distance from one end, a hair clamping member pivotally mounted on said handle member, a curling tube reciprocally mounted on said supporting tube member, a resilient member in operative relation with said reciprocating tube and with said supporting tube, tending to hold said reciprocating tube inwardly on said supporting tube, and another larger curling tube secured on the extended end of said curling tube.

4. In a device of the class described, a curl supporting tube member, a support on which it is inwardly and outwardly reciprocally mounted, and resilient means tending to draw said curling tube inwardly on said support.

5. In a hair dressing and curling tool, a relatively short comb member provided with an extending handle, said handle provided with a longitudinal bore therein, a supporting tube member rigidly secured in said bore and extending some distance from one end thereof, a hair clamping member pivotally mounted on said handle and a tube reciprocally mounted on said supporting tube member.

6. In a hair dressing and curling tool, a relatively short comb member provided with an extending handle, said handle provided with a longi-

tudinal bore therein, a supporting tube member rigidly secured in said bore and extending some distance from one end thereof, a hair clamping member pivotally mounted on said handle, a tube reciprocally mounted on said supporting tube member and a resilient member in operative relation with said reciprocating tube and said supporting tube tending to hold said reciprocating tube inwardly on said supporting tube.

7. In a hair dressing and curling tool, a relatively short comb member provided with an extending handle, said handle provided with a longitudinal bore therein, a supporting tube member rigidly secured in said bore and extending some distance from one end thereof, a hair clamping member pivotally mounted on said handle, a tube reciprocally mounted on said supporting tube member, a resilient member in operative relation with said reciprocating tube and said supporting tube tending to hold said reciprocating tube inwardly on said supporting tube, and another larger curling tube secured on the extended end of said reciprocating tube.

8. In a hair dressing and curling tool, a relatively short comb member provided with an extending handle, said handle provided with a longitudinal bore therein, a supporting tube member rigidly secured in said bore and extending some distance from one end thereof, a hair clamping member pivotally mounted on said handle member, a resilient member in operative relation with said reciprocating tube, and said supporting tube tending to hold said reciprocating tube inwardly on said supporting tube, a curling tube secured on the extended end of said reciprocating tube, said curling tube being readily removable and interchangeable.

9. In a hair dressing and curling tool, a comb member provided with teeth extending in one direction, a prong positioned in spaced relation with the back of said comb member in longitudinal relation therewith, a handle for said comb and prong provided with a longitudinal bore therein, a supporting tube member secured in said bore and extending some distance from one end, a hair clamping member pivotally mounted on said handle and a reciprocating tube reciprocally mounted on said supporting tube member.

10. In a hair dressing and curling tool, a comb member provided with teeth extending in one direction, a prong positioned in spaced relation with the back of said comb member in longitudinal relation therewith, a handle for said comb and prong provided with a longitudinal bore therein, a supporting tube member secured in said bore and extending some distance from one end, a hair clamping member pivotally mounted on said handle, a reciprocating tube reciprocally mounted on said supporting tube member, and a resilient member in operative relation with said reciprocating tube member and said supporting tube member, tending to hold said reciprocating tube member inwardly on said supporting tube member.

11. In a device of the class described, a tubular supporting member, a curling clamp member pivotally mounted thereon, and a curling tube reciprocally mounted around said supporting member adapted to be engaged by said curling clamp member.

12. In a device of the class described, a tubular supporting member, a curling clamp member pivotally mounted thereon, a curling tube member reciprocally mounted around said supporting member adapted to be engaged by said curling clamp member, and a resilient member connected with said supporting member and said curling member adapted to draw said supporting member inwardly in said curling tube member.

13. In a hair dressing and curling tool, a relatively wide, flat handle member, a supporting tube secured to one end thereof and extending therefrom, a comb positioned on the opposite end of said handle extending from one side thereof, said handle member provided with blunt irregularly ended teeth extending from one side thereof in alignment with the teeth of said comb.

14. In a hair dressing and curling tool, a handle member provided with an extended longitudinal bore therein, a supporting tube member inserted in said bore a short distance and extending some distance from the end thereof, a hair clamping member pivotally mounted on said handle intermediate the ends of said supporting tube, and a curling tube adapted to receive the hair reciprocally mounted on said supporting tube with one side interposed between said supporting tube and said hair clamping member.

15. In a hair dressing and curling tool, a handle member provided with an extended longitudinal bore therein, a supporting tube member inserted in said bore a short distance and extending some distance from the end thereof, a hair clamping member pivotally mounted on said handle intermediate the ends of said supporting tube, a curling tube adapted to receive the hair reciprocally mounted on said supporting tube with one side interposed between said supporting tube and said hair clamping member, and a resilient member mounted in said bore in said handle member and in said supporting tube member engageable with said curling tube member tending to draw said curling tube member over said supporting member under said clamping member.

16. In a hair dressing and curling tool, a handle member provided with an extended longitudinal bore therein, a supporting tube member inserted in said bore a short distance and extending some distance from the end thereof, a hair clamping member pivotally mounted on said handle intermediate the ends of said supporting tube, a curling tube adapted to receive the hair reciprocally mounted on said supporting tube with one side interposed between said supporting tube and said hair clamping member, a resilient member mounted in said bore in said handle member and in said supporting tube member engageable with said curling tube member tending to draw said curling tube member over said supporting member under said clamping member, and another larger curling tube secured on the extended end of said curling tube.

OSCAR C. WILLIAMS.