

Nov. 30, 1937.

W. H. HERMSDORF

2,100,851

HAIR CURLER

Filed Dec. 5, 1935

2 Sheets-Sheet 1

Fig. 1

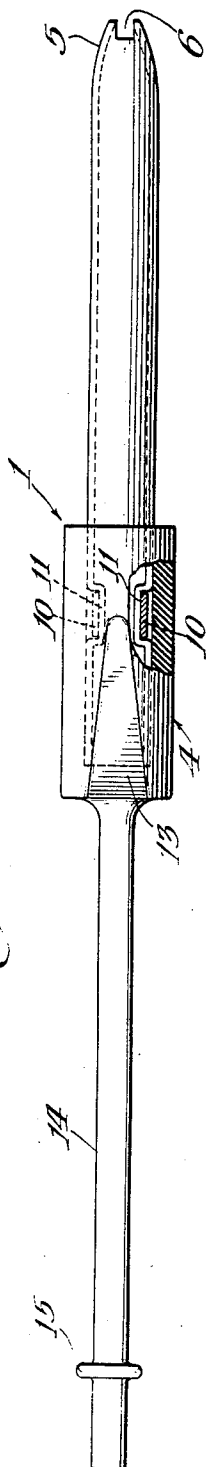


Fig. 2

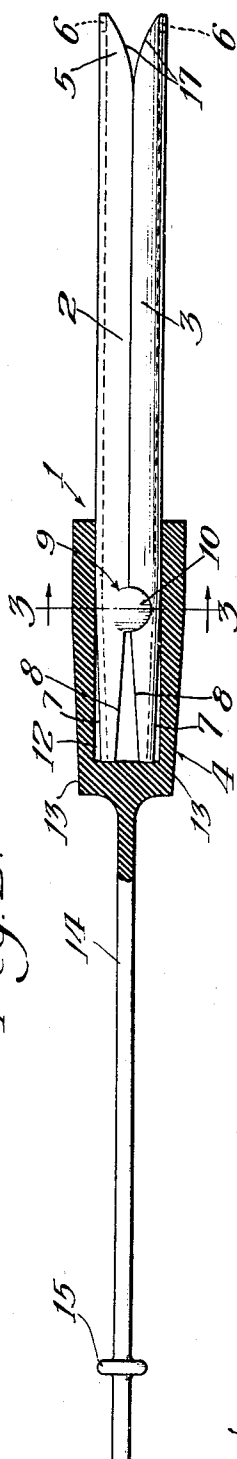


Fig. 3

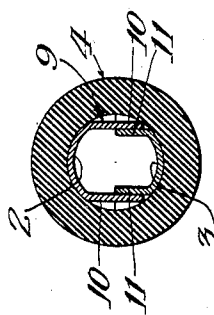
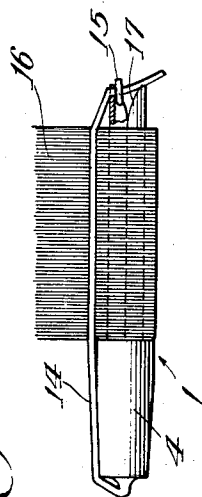


Fig. 4



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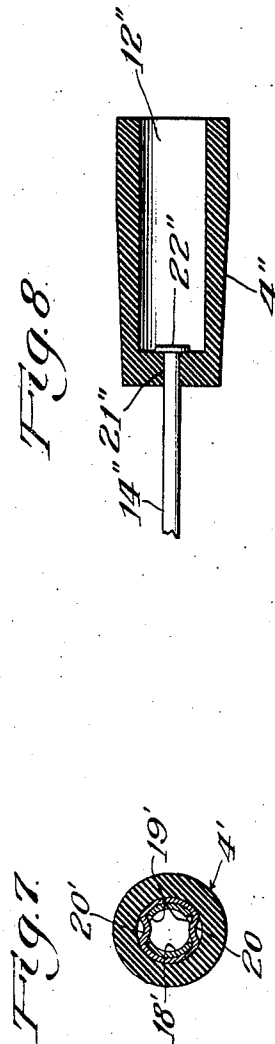
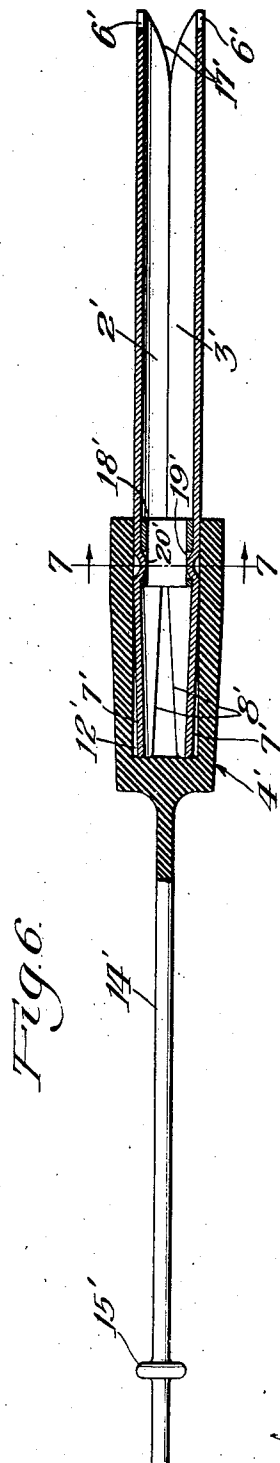
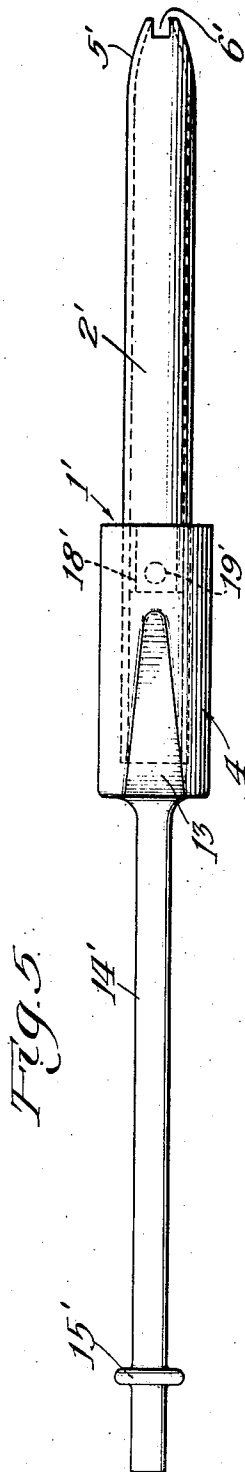
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HAIR CURLER

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2 Sheets-Sheet 2



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UNITED STATES PATENT OFFICE

2,100,851

HAIR CURLER

Walter H. Hermsdorf, Chicago, Ill., assignor to
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Application December 5, 1935, Serial No. 52,964

8 Claims. (Cl. 132—31)

This invention relates to improvements in hair curlers and refers specifically to a hair curler which may be quickly and conveniently applied to, and detached from the hair with a minimum of effort.

The objects and advantages of my invention will be apparent from the accompanying drawings and following detailed description.

In the drawings, Fig. 1 is a top plan view, parts being broken away and parts being shown in section, of an embodiment of my invention.

Fig. 2 is a side elevational view, partly in section, of the curler shown in Fig. 1.

Fig. 3 is a transverse sectional view taken on line 3—3 of Fig. 2.

Fig. 4 is a side elevational view, parts being shown in section, of the curler in operative position.

Fig. 5 is a top plan view of a slight modification of my invention.

Fig. 6 is a sectional elevational view of the device shown in Fig. 5.

Fig. 7 is a transverse sectional view taken on the line 7—7 of Fig. 6.

Fig. 8 is a fragmentary sectional view of a modified form of resilient cap which may be used with my invention.

Referring in detail to the drawings, 1 indicates a hair curler of the same general type as that described in my copending application for United States patent, Serial No. 46,545, filed October 24, 1935. The curler 1 comprises essentially members 2 and 3 and cap 4.

Members 2 and 3 are hollow and are substantially semi-cylindrical in form being constructed of metal, preferably aluminum. In use members 2 and 3 are adapted to be positioned in edge abutting relationship, member 2 comprising the upper member and member 3 the lower. Each of the members 2 and 3 may be tapered or relieved adjacent its end, as shown best at 5 in Fig. 1, and each is provided with a notch 6 at its tip, the purpose of which will be hereinafter described. The opposite ends of the members 2 and 3 may also be tapered or relieved, as shown best at 7 and 8 in Fig. 2. At the inner ends of the tapered edges 8, a hinge 9 is provided and comprises a pair of oppositely disposed lugs 10 formed integral with the upper member 2 which register with opposite indentations 11 provided in the sides of member 3 and bear upon the shoulders defining said indentations.

The cap 4 is constructed of a resilient material such as rubber or the like and is provided with a cylindrical recess or bore 12. In use, cap 4

is positioned over the hinge-end of the members 2 and 3, the walls of said cap holding the hinge 9 in place. The outer periphery of the cap 4 is substantially cylindrical with the exception of that portion of the wall thereof above and below the hinge, which is constructed flat, as shown best at 13 in Fig. 2. An elastic strand 14 is secured to, or formed integral with cap 4 and is of a length approximately equal to the length of the body portion of the curler per se. An enlargement 15 is formed adjacent the free end of the strand 14 for a purpose presently to be described.

In using the curler 1 to curl a strand of hair, the curler is pinched at the cap end thereof so as to pivot the members 2 and 3 about hinge 9. The flat portions 13 of the cap assist the operator in readily locating the proper portion of the cap to pinch in order to spread the members 2 and 3. While the curler is thus pinched, the end of a strand of hair 16 may be inserted between the spaced edges of the curler members, the free ends of the curler being relieved, as shown at 17 in Fig. 2, to facilitate the insertion of the hair. The pinching force may then be released and since the walls of the resilient cap 4 extend beyond the hinge 9 toward the free ends of the members 2 and 3, said members are resiliently impelled toward each other thereby securing the hair between their normally contacting edges. The curler may then be rotated or rolled whereby the strand 16 is wound upon the cylinder comprising the two members 2 and 3 until a desired quantity of hair is carried by the curler. The elastic strand 14 is then stretched across the strand of hair 16 and anchored at its end to the end or ends of the members 2 and 3, the strand being inserted in one or both notches 6 and the enlargement 15 engaging the defining walls of the notch to prevent dislodgment of the strand. The hair thus held may be maintained on the curler for a predetermined length of time until the same takes on a semi-permanent set or the hair while so held may be treated with a hair setting material to facilitate the setting thereof. To remove the curler, the strand 16 may be disengaged from notches 6; the curler may again be slightly pinched to release the end of the strand 16 and the curler may be slipped longitudinally from the curl or roll formed.

Referring to Figs. 5, 6 and 7, a slight modification of my invention is shown, the embodiment being similar to that hereinbefore described with the exception of the hinge arrangement. In view of the similarity of construction, the only portions of the modified structure which will be

described in detail will be those which differ from the embodiment hereinbefore described, the remaining structure, without further description being designated with primed reference numerals 5 which correspond to those in the illustrations of the preferred embodiment.

The members 2' and 3' positioned in edge abutting relationship, similar to members 2 and 3, circumscribe a relatively short tube 18'. The tube 18' is provided with diametrically opposite apertures 19' with which indentations or protuberances 20' register, the tube 18' and the interlocking engagement of the protuberances tending to prevent lateral and longitudinal shifting of member 2 with respect to member 3. 15

The curler 1' is manipulated in a manner similar to the operation of curler 1, and when the confining cap 4' is pinched the members 2' and 3' are spread, the pivoting action taking place about the innermost edge of the tube 18'. The protuberances 20' extend a sufficient distance into the apertures 19' even when the members have been pivoted to their limit as to prevent unintentioned dislodgment of tube 18'. 20

Referring particularly to Fig. 8, a modified form of cap is shown, and comprises a substantially cylindrical body 4'' having a cylindrical bore 12''. The end wall of the cap 4'' is provided with an aperture 21'' through which an elastic strand 14'' may pass. An end of the strand 14'' may carry a button 22'', which may be secured to, or formed integral with said strand, said button being adapted to prevent unintentional removal of the strand from the cap. The opposite end of the strand 14'' may be similar in construction to strands 14 and 14'' and cap 4'' may, if desired, be used in place of caps 4 or 4'. 25

I claim as my invention:

1. A hair curler which comprises, a pair of elongated members of semi-tubular form pivotally associated with each other adjacent one end, a resilient tube circumscribing said members adjacent said pivot point to resiliently urge said members into longitudinal contact with each other to grip a strand of hair between their longitudinal edges, the edges of one of said members at the end opposite the pivot being tapered to form a mouth to facilitate the introduction of a strand of hair between said members. 40

2. A hair curler which comprises, a pair of elongated members pivotally associated with each other adjacent their ends, a resilient cap enclosing said ends and pivot point to resiliently urge said members into longitudinal contact with each other to grip a strand of hair between their longitudinal edges whereby said hair may be wrapped around said members. 45

3. A hair curler which comprises, a pair of elongated members pivotally associated with each other adjacent their ends, a resilient cap enclosing said ends and pivot point to resiliently urge said members into longitudinal contact with each other to grip a strand of hair between their 50

longitudinal edges whereby said hair may be wrapped around said members, and means connected to the cap for holding said hair in wrapped position upon said members.

4. A hair curler which comprises, a pair of elongated members pivotally associated with each other adjacent their ends, a resilient cap enclosing said ends and pivot point to resiliently urge said members into longitudinal contact with each other to grip a strand of hair between their longitudinal edges whereby said hair may be wrapped around said members, and means for holding said hair in wrapped position upon said members comprising an elastic strand secured at one end to said cap, the opposite end of said strand being removably engageable with the ends of said members. 15

5. A hair curler which comprises a pair of elongated, substantially semi-cylindrical members, a resilient cap enclosing an end of each of said members, a cylindrical tube disposed within said semi-cylindrical members within said cap, cooperative means carried by said tube and said members for preventing relative longitudinal movement of said members within said cap, said cap resiliently urging said members together in longitudinal contact whereby a strand of hair may be grasped between said members and wound around said members. 20

6. A hair curler which comprises a pair of elongated, substantially semi-cylindrical members, a resilient cap enclosing an end of each of said members, a cylindrical tube disposed within said semi-cylindrical members within said cap, cooperative means carried by said tube and said members for preventing relative longitudinal movement of said members within said cap, said cap resiliently urging said members together in longitudinal contact whereby a strand of hair may be grasped between said members and wound around said members, and an elastic strand secured at one end to said cap, the opposite end of said strand being removably engageable with the ends of said members to hold said hair in wound position upon said members. 25

7. In a device of the class described, a pair of substantially semi-cylindrical members, a resilient cap enclosing an end of each of said members and adapted to resiliently urge said members together in edge abutting contact, and means hinging said members together within said cap. 30

8. In a device of the class described, a pair of substantially semi-cylindrical members, a resilient cap enclosing an end of each of said members and adapted to resiliently urge said members together in edge abutting contact, and means hinging said members together within said cap comprising a pair of oppositely positioned lugs carried by one of said members, the walls of the opposite member being offset inwardly to receive said lugs, said lugs being held in register with said offsets by said resilient cap. 35

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