Sept. 10, 1935. A. JACKSON 2,014,283

HAIR CURLER

Filed July 5, 1935

Fig. 1

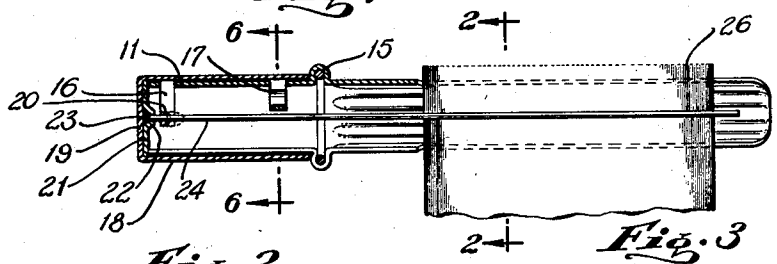


Fig. 2

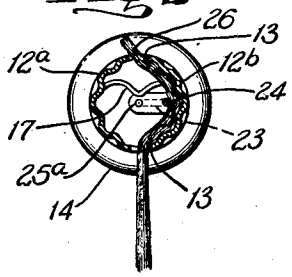


Fig. 3

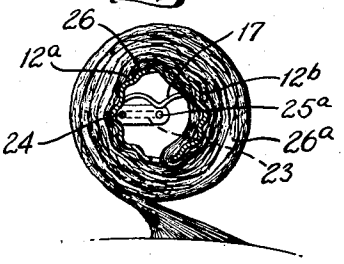


Fig. 4

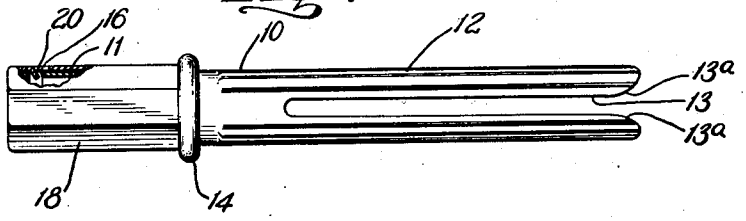


Fig. 5

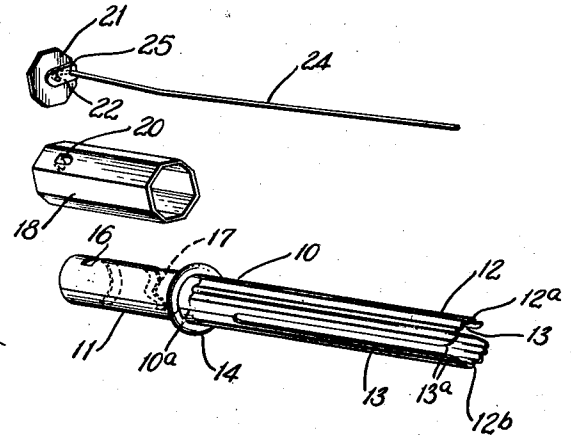
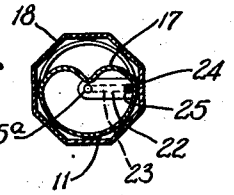


Fig. 6



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HAIR CURLER

Anton Jackson, Brooklyn, N. Y.

Application July 5, 1935, Serial No. 29,947

15 Claims. (Cl. 132—33)

This invention relates to devices for curling the hair; and the object of the invention is to provide a device which is utilized to form a curl in the hair and to facilitate the placement or application of a bobby pin, hair pin or other similar device in the formed curl, and thereafter, remove the curling device so that the curled hair may be retained in position by the pins or retaining means employed; a further object being to provide a device of the class described consisting of an elongated tubular body, one end portion of which is split, and means rotatably mounted upon the other end portion of the body for moving a spring pin toward and from the opposed split portions of the tube to retain the hair in connection therewith to facilitate a curling operation as well as to release the curl from the device to permit the removal thereof; a further object being to provide a device of the class described wherein the tubular body is formed from a flat sheet of material shaped and folded into the desired form and wherein a cam portion is formed in one end thereof controlling the shifting movement of the spring pin with other means on said tube and a rotatable cap for limiting rotary movement thereof and for retaining the cap against displacement from said tube; and with these and other objects in view, the invention consists in a device of the class and for the purpose specified, which is simple in construction, efficient in use, and which is constructed as hereinafter described and claimed.

The invention is fully disclosed in the following specification, of which the accompanying drawing forms a part, in which the separate parts of my improvement are designated by suitable reference characters in each of the views, and in which:

Fig. 1 is a longitudinal sectional view through the device indicating the manner of its use.

Fig. 2 is a section on the line 2—2 of Fig. 1.

Fig. 3 is a view similar to Fig. 2 showing the parts in a different position.

Fig. 4 is a side view of the device with part of the construction broken away.

Fig. 5 is a perspective view of the several parts of the device detached; and,

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

In carrying my invention into effect, I provide a tubular body 10 which is fashioned from a sheet of material curled to form a straight or smooth end portion 11, a corrugated or beaded end portion 12 split as seen at 13 on opposite walls thereof to form channels in which the hair is adapted to be passed. The separate end portions 11 and 12 are joined by an annular beaded portion 14 within which is crimped a solid ring 15 which serves to hold the parts together and prevent spreading thereof as well as to keep the adjacent edges 10*a* in abutting relation with respect to each other, thus eliminating the necessity of otherwise securing said edges together.

The plain end portion 11 of the tubular body 10 is provided with a circumferentially extending aperture 16 adjacent the free end thereof and a cam portion 17 pressed inwardly and of the contour clearly illustrated in Fig. 6 of the drawing. The aperture 16 and cam portion 17 are preferably disposed on the wall of the tube 11 directly opposite the adjacent edges 10*a*. The free end portions of the body or corrugated part 12 of the tube have their walls rounded or beveled as seen at 13*a* to facilitate the free passage of the hair into the splits or channels 13.

I also provide an elongated octagon tube or thimble-shaped body 18 for a closed end wall 19. One side wall of said body inwardly of the end wall 19 is provided with a tongue 20 adapted to be pressed inwardly to enter the recess 16 in coupling the cap 18 with the tubular portion 11 so as to retain the same against displacement therefrom and at the same time limit the rotary movement of the cap 18 on the tubular portion 11 in both directions. The circumferential length of the apertures 16 is such as to provide at least one hundred and eighty degree travel of the cap 18 as will later appear. A disk or washer 21 having an octagon peripheral contour is adapted to be forced into the cap 18 to be firmly retained against the bottom wall 19 thereof. This washer has an outwardly pressed portion 22 adapted to receive an angularly extending leg or end piece 23 on a spring pin or finger 24 which is passed through a hole 25 in the offset 22 in attaching the pin to the washer and in order to maintain the pin within the tubular portion 11 which fits over and is disposed outwardly of and encircles the pin 24. The end portion 23 of the pin 24 also includes an angularly extending part adapted to pass into another aperture 25*a* in the offset 22 to key and retain the pin against oscillation with respect to the washer to provide a secure attachment of the pin to said washer, it being understood that the pin is attached to the washer from the rear or lower surface thereof to provide the proper engagement with the offset portion of said washer.

The pin 24 is so fashioned as to normally extend onto the inner surface of either member 12*a*, 12*b* of the split end 12 of the tube 10 and to be located centrally of such member in the man-

ner indicated in Figs. 2 and 3 of the drawing. By rotating the cap 18, the shank of the pin will be moved from the cam 17 and thrown into engagement with the other or opposite member 12a, 12b in the use of the device.

To illustrate the use of the device, we will assume that the pin 24 is in engagement with the inner surface of the member 12a as is indicated in Fig. 3 of the drawing. One end portion of the hair to be curled, indicated at 26, is placed between the two members 12a, 12b transversing the split portions 13 between said members, after which the handle or cap 18 is rotated to move the pin 24 into the position shown in Fig. 2, to grasp the end of the hair between it and the member 12b, after which the entire device is rotated to curl the hair in the manner indicated at 26a in Fig. 3 of the drawing, in which position, bobby pins or other securing or retaining devices may be passed over both of the members 12a, 12b and the hair curled upon the outer surface thereof, after which the handle member 18 is again rotated to return the pin 24 into the position shown in Fig. 3, at which time, the end portion 26 of the hair will be released and the curling device may be readily withdrawn from the curled hair, and the hair will be held or retained in the curled position by the pins or other devices employed.

This operation will be repeated several times in curling various sections or portions of the hair, and in this way, the desired curling operations on the hair may be performed by a single inexpensive device and one which is simple in operation and use, and at the same time, eliminate the uncomfortable use of various types of curling devices commonly retained upon the head in performing curling operations, it being understood that the bobby pins or other curl retaining devices will not present an untidy appearance or an uncomfortable condition.

It is understood that the accompanying drawing is illustrative of one specific structure for carrying my invention into effect, and changes therein may be made consistent with the mode of operation and general arrangement of parts disclosed and as defined in the appending claims.

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

1. A hair curling device of the class described, comprising an elongated tubular body, one end portion of which is provided with an inwardly pressed cam and the other end portion of which is provided on opposed walls with elongated apertures dividing said end into opposed arc-shaped members, a spring arm arranged longitudinally of said tubular body and adapted to be moved into engagement with the opposed arc-shaped members thereof, and means movably supported on the first named end portion of said body and coupled with said spring arm for moving the same relatively to said cam to control the movement of said arm in the direction of both of said members.

2. A hair curling device of the class described, comprising an elongated tubular body, one end portion of which is provided with an inwardly pressed cam and the other end portion of which is provided on opposed walls with elongated apertures dividing said end into opposed arc-shaped members, a spring arm arranged longitudinally of said tubular body and adapted to be moved into engagement with the opposed arc-shaped members thereof, and means movably supported on the first named end portion of said body and coupled with said spring arm for moving the same relatively to said cam to control the movement of said arm in the direction of both of said members, said last named means comprising a cap rotatably mounted on said body.

3. A hair curling device of the class described, comprising an elongated tubular body, one end portion of which is provided with an inwardly pressed cam and the other end portion of which is provided on opposed walls with elongated apertures dividing said end into opposed arc-shaped members, a spring arm arranged longitudinally of said tubular body and adapted to be moved into engagement with the opposed arc-shaped members thereof, means movably supported on the first named end portion of said body and coupled with said spring arm for moving the same relatively to said cam to control the movement of said arm in the direction of both of said members, said last named means comprising a cap rotatably mounted on said body, and means on said cap and on the first named end portion of said body for preventing displacement of the cap therefrom.

4. A hair curling device of the class described, comprising an elongated tubular body, one end portion of which is provided with an inwardly pressed cam and the other end portion of which is provided on opposed walls with elongated apertures dividing said end into opposed arc-shaped members, a spring arm arranged longitudinally of said tubular body and adapted to be moved into engagement with the opposed arc-shaped members thereof, means movably supported on the first named end portion of said body and coupled with said spring arm for moving the same relatively to said cam to control the movement of said arm in the direction of both of said members, said last named means comprising a cap rotatably mounted on said body, means on said cap and on the first named end portion of said body for preventing displacement of the cap therefrom and for limiting movement of the cap in two directions thereon, and said cap having a plurality of flat surfaces spaced circumferentially thereon.

5. A hair curling device of the class described, comprising an elongated tubular body, one end portion of which is provided with an inwardly pressed cam and the other end portion of which is provided on opposed walls with elongated apertures dividing said end into opposed arc-shaped members, a spring arm arranged longitudinally of said tubular body and adapted to be moved into engagement with the opposed arc-shaped members thereof, means movably supported on the first named end portion of said body and coupled with said spring arm for moving the same relatively to said cam to control the movement of said arm in the direction of both of said members, said last named means comprising a cap rotatably mounted on said body, means on said cap and on the first named end portion of said body for preventing displacement of the cap therefrom and for limiting movement of the cap in two directions thereon, said cap having a plurality of flat surfaces spaced circumferentially thereon, and the second named end portion of said tubular body having a plurality of longitudinally extending beads.

6. A hair curling device of the class described, comprising an elongated tubular body, one end portion of which is provided with an inwardly pressed cam and the other end portion of which is provided on opposed walls with elongated aper-

tures dividing said end into opposed arc-shaped members, a spring arm arranged longitudinally of said tubular body and adapted to be moved into engagement with the opposed arc-shaped members thereof, means movably supported on the first named end portion of said body and coupled with said spring arm for moving the same relatively to said cam to control the movement of said arm in the direction of both of said members, said last named means comprising a cap rotatably mounted on said body, means on said cap and on the first named end portion of said body for preventing displacement of the cap therefrom and for limiting movement of the cap in two directions thereon, said cap having a plurality of flat surfaces spaced circumferentially thereon, the second named end portion of said tubular body having a plurality of longitudinally extending beads, and the first and second named end portions of said tubular body being separated by a circumferentially beaded portion of said body.

7. A hair curler of the class described comprising an elongated tubular body, one end of which is divided into opposed elongated arc-shaped members, a cap movably mounted on the other end portion of said body, a long spring arm coupled with said cap and actuated thereby, and means on the last named end portion of said tubular body engaging said spring arm to control the movement thereof toward and from the opposed arc-shaped members of said body in the movement of said cap thereon.

8. A hair curler of the class described comprising an elongated tubular body, one end of which is divided into opposed elongated arc-shaped members, a cap movably mounted on the other end portion of said body, a long spring arm coupled with said cap and actuated thereby, means on the last named end portion of said tubular body engaging said spring arm to control the movement thereof toward and from the opposed arc-shaped members of said body in the movement of said cap thereon, and said last named means comprising an inwardly extending cam disposed in the path of movement of said spring arm.

9. A hair curler of the class described, comprising an elongated tubular body, one end of which is divided into opposed elongated arc-shaped members, a cap movably mounted on the other end portion of said body, a long spring arm coupled with said cap and actuated thereby, means on the last named end portion of said tubular body engaging said spring arm to control the movement thereof toward and from the opposed arc-shaped members of said body in the movement of said cap thereon, said last named means comprising an inwardly extending cam disposed in the path of movement of said spring arm, the second named end portion of the cap having a circumferential slot and said cap having a member entering said slot to retain the cap against displacement from said body and to limit rotary movement of the cap thereon.

10. A hair curler of the class described, comprising an elongated tubular body, one end of which is divided into opposed elongated arc-shaped members, a cap movably mounted on the other end portion of said body, a long spring arm coupled with said cap and actuated thereby, means on the last named end portion of said tubular body engaging said spring arm to control the movement thereof toward and from the opposed arc-shaped members of said body in the movement of said cap thereon, said last named means comprising an inwardly extending cam disposed in the path of movement of said spring arm, the second named end portion of the cap having a circumferential slot and said cap having a member entering said slot to retain the cap against displacement from said body and to limit rotary movement of the cap thereon, said body being fashioned from a flat sheet of material, and the separate end portions of said body being joined by an outwardly extending beaded portion.

11. A hair curler of the class described, comprising an elongated tubular body, one end of which is divided into opposed elongated arc-shaped members, a cap movably mounted on the other end portion of said body, a long spring arm coupled with said cap and actuated thereby, means on the last named end portion of said tubular body engaging said spring arm to control the movement thereof toward and from the opposed arc-shaped members of said body in the movement of said cap thereon, said last named means comprising an inwardly extending cam disposed in the path of movement of said spring arm, the second named end portion of the cap having a circumferential slot and said cap having a member entering said slot to retain the cap against displacement from said body and to limit rotary movement of the cap thereon, said body being fashioned from a flat sheet of material, the separate end portions of said body being joined by an outwardly extending beaded portion, and a ring mounted in and secured to said beaded portion to maintain said body against expansion and contraction.

12. A hair curler of the class described, comprising an elongated tubular body, one end of which is divided into opposed elongated arc-shaped members, a cap movably mounted on the other end portion of said body, a long spring arm coupled with said cap and actuated thereby, means on the last named end portion of said tubular body engaging said spring arm to control the movement thereof toward and from the opposed arc-shaped members of said body in the movement of said cap thereon, said last named means comprising an inwardly extending cam disposed in the path of movement of said spring arm, the second named end portion of the cap having a circumferential slot and said cap having a member entering said slot to retain the cap against displacement from said body and to limit rotary movement of the cap thereon, said body being fashioned from a flat sheet of material, the separate end portions of said body being joined by an outwardly extending beaded portion, a ring mounted in and secured to said beaded portion to maintain said body against expansion and contraction, said cap being octagon in cross sectional form, and an octagon washer seating in said cap and to which said spring arm is attached.

13. In a device of the class described, an elongated tubular body fashioned from a single sheet of metal rolled to bring side edges of the sheet together, one end portion of the resulting tubular body being split or fork-shaped in form and having corrugated walls, the other end portion of said body being un-corrugated, said end portions being joined by an integral, outwardly extending beaded portion, and a ring mounted in and secured to said beaded portion, to maintain adjacent edges of the metal sheet forming said tubular body in abutting relation.

14. In a device of the class described, an elongated tubular body fashioned from a single sheet of metal rolled to bring side edges of the sheet together, one end portion of the resulting tubular body being split or fork-shaped in form and having corrugated walls, the other end portion of said body being un-corrugated, said end portions being joined by an integral, outwardly extending beaded portion, a ring mounted in and secured to said beaded portion to maintain adjacent edges of the metal sheet forming said tubular body in abutting relation, and a cap of octagon cross sectional form rotatably mounted on the plain end portion of said tubular body and means for preventing displacement of the cap from said body and for limiting rotary movement of the cap thereon in two directions.

15. In a device of the class described, an elongated tubular body fashioned from a single sheet of metal rolled to bring side edges of the sheet together into abutting relation, means for retaining said edges in close proximity to each other, one end portion of the tubular body being split and fork-shaped in form, and the other end portion of said body being provided with an inwardly pressed cam and an aperture extending circumferentially thereof.

ANTON JACKSON.