

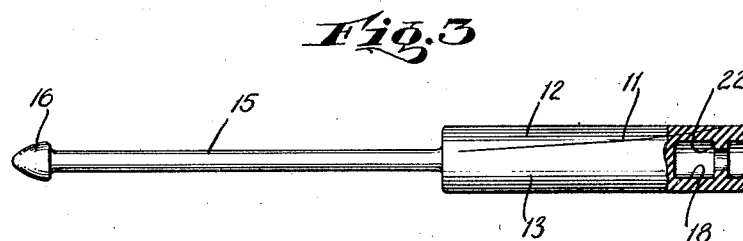
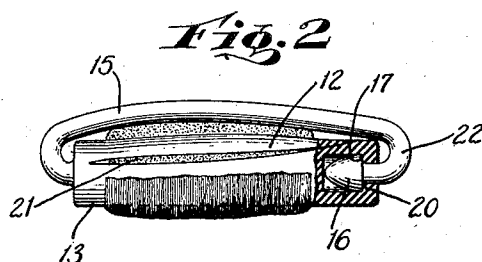
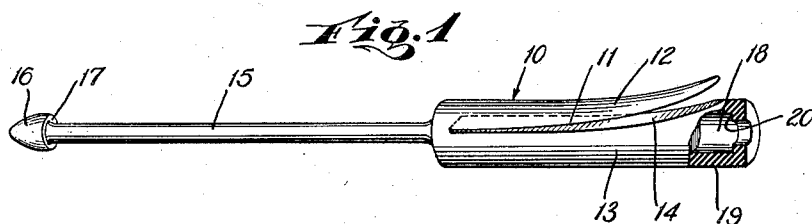
Jan. 31, 1939.

N. L. SOLOMON

2,145,278

HAIR CURLER

Filed Sept. 25, 1935



N. L. Solomon
INVENTOR

BY *R. Palmer*
ATTORNEY

UNITED STATES PATENT OFFICE

2,145,278

HAIR CURLER

Nathan L. Solomon, Brooklyn, N. Y.

Application September 25, 1935, Serial No. 42,049

9 Claims. (Cl. 132-44)

This invention relates to hair curlers of the type in which the hair is initially gripped between and subsequently coiled about complementary hair holding elements coacting with a swingable retaining member for non-rotatably sustaining the curler relative to the head of the user. Hitherto as far as I am aware relatively hard and non-yielding hair curlers of the type referred to, were utilized to process the hair during periods of slumber. During such use, the curler became a source of annoyance in that portions thereof would penetrate into the flesh, causing considerable discomfort and inconvenience. The present invention has for its object the provision of a hair curler of the flexible and yieldable type which will be free from the objection above referred to and is characterized by a relatively soft and resilient one piece structural embodiment which may be readily applied to the head of the user, which is durable in construction and which from the standpoint of manufacture may be produced at a relatively low cost.

My invention also includes the provision of a unitary hair curler having a body provided with biased kerf to form complementary hair holding elements about which the hair to be processed is coiled, the body having an appropriate integrally connected socket adapted to removably sustain a terminal resilient stay of an attenuated elastic hair retaining member integrally and swingably extending from the body of the curler.

The invention is applicable generally to hair curlers which may widely vary in respect to their general construction but preferably embodies a simplified hair curler comprising a one piece resilient body and an integrally and swingably connected resilient hair retaining member. Such a hair curler is illustrated in the accompanying drawing in which:—

Fig. 1 is a longitudinal view of the hair curler according to my invention, the body of the curler being shown open and partly in section.

Fig. 2 is a closed view of the curler illustrated in Fig. 1 and partly in section and

Fig. 3 is a view similar to Fig. 1, however, illustrating a slightly modified construction.

The one-piece curler generally denoted 10 comprises a cylindrical body of relatively soft rubber provided with a biased or obliquely disposed kerf or cut 11 dividing the body into normally closed mutually contacting complementary hair holding elements 12 and 13 to form integrally and hingedly connected components permitting component 12 to be manually swung away from the relatively flat face 14 of the companion element 13 to constitute a gap in which a portion of the hair to be coiled is inserted.

Extending laterally of but integral with the body of the curler is a reduced or attenuated cylindrical flexible and elastic hair member 15

having an enlarged resilient terminal or stay 16 defining an annular shoulder 17. The stay 16 is integral with retaining member 15 and both may be of the same resilient material out of which the body of the curler is formed, the body being provided with an axial bore 18 defining a socket or housing having an annular lip or flange 20.

In operation, the hair to be curled, has its terminal part 21 first interposed between holding complements 12 and 13 after which manual pressure is removed from the swingable complement 12 and the latter automatically closes. Subsequently the hair is wound about the closed complements and the flexible retaining member 15 is first swung as to lie against the hair wound complements 12 and 13, and subsequently stretched to arrange the stay to overhang the socket end of the body. The fore part of the retaining member is now arcuately bent towards the socket to dispose stay 16 in line with bore 18 thereof. Stay 16 is then passed through the expandible annular flange 20 and into the bore 18 and pursuant to such operation, flange 20 contracts and interlocks with the annular shoulder 17 of the stay to prevent the latter from accidentally disconnecting from the socket.

With the hair held between and wound about the complements, the retaining member 15 lies against the hair spirally wound about the body of the curler and stay 16 is interlocked with the annular flange 20. In an interlocked relation of the retaining member, the latter cooperates with the hair about the curler to prevent rotation of the latter, that is, precluding the hair wound about the complements to unwind.

To disconnect the stay 16 from its socket or housing, the intermediate curved portion 22 is manually grasped and moved outwardly, thus causing annular flange 20 to expand, whereupon the tapered head or stay 16 may be passed by and be free of flange 20. In this way the stay is removed from the socket. The retaining member then lifts from the hair about the complements and by its own resiliency swings to a normal open position to overhang the body of the curler.

In the form according to Fig. 3, annular resilient flange 22, instead of being at an extreme end of the body of the curler, is arranged within an intermediate part of bore 18. In other aspects, the construction illustrated in Fig. 3 is identical to the form disclosed in connection with Fig. 1.

By the present invention, a complete one-piece simplified hair curler is provided, characterized by a relatively soft resilient body including an integrally hinged flexible and resilient hair retaining member each susceptible to be deformed to conform to the irregularities of the head of the user to prevent harmful pressure thereon particularly during periods of sleep.

In the broader aspects of the invention, I do not desire to be understood as limiting its embodiments to details herein shown illustratively as a wide variety of modifications may be made within the scope of the appended claims without departing from the spirit of the invention.

I claim:—

1. A one piece hair curler comprising a body including integrally and hingedly connected complementary hair holding elements, a retaining member integral with said body and overhanging a wall thereof, and an enlargement integral with said member, said body having means adapted to be removably interconnected with said enlargement.

2. A one piece hair curler comprising a resilient body provided with a longitudinally disposed kerf to define complementary hair holding elements about which hair is coiled, a retaining member integral with said body and overhanging a wall thereof, a terminal head integral with said retaining member and a socket having means adapted to removably receive said head to hold said retaining member against the hair wound about said elements.

3. A one piece hair curler comprising a resilient body provided with a longitudinally disposed biased kerf to define complementary hingedly connected hair curling elements, a reduced hair retaining member integral with said body and normally overhanging an end wall thereof, a terminal head integral with said retaining member, and a socket having means cooperating to removably interlock with said head and retain intermediate parts of said member against the hair wound about said elements.

4. A one piece relatively soft and resilient hair curler comprising an elongated body provided with a longitudinally disposed biased kerf to define swingably and integrally connected hair holding elements, a reduced hair retaining member integral with said body and normally swingably overhanging an end wall thereof, an enlarged terminal integral with said member, said member adapted to be swung longitudinally of said body to permit said terminal to extend beyond another end wall of said body, and means adapted to removably receive and retain said terminal to permit the intermediate portion of said reduced retaining member to lie against the hair wound about said elements.

5. A one piece relatively soft and resilient hair curler comprising an elongated body provided with a longitudinally disposed biased kerf to define integrally and hingedly connected hair holding elements, an elastic member integral with and swingably connected to said body and overhanging an end wall thereof, an enlarged terminal integral with said member and defining therewith a shoulder, said member adapted to be projected longitudinally of said body to permit said terminal to extend beyond another end of said body, the latter having a socket adapted to removably receive said terminal, and means integral with said body and cooperating with said shoulder to removably retain said terminal with said socket.

6. A one piece relatively soft and resilient hair curler comprising an elongated body provided with a longitudinally disposed biased kerf to define integrally and hingedly connected hair hold-

ing elements, an elongated elastic member integral with and connected to said body and overhanging an end wall thereof, an enlarged terminal resilient head integral with said member and defining therewith a shoulder, said member adapted to be projected longitudinally of said body to lie against the hair wound about said elements and to permit said head to extend beyond an opposite end of said body, said last mentioned end having an integrally connected socket for removably receiving said head, and a retaining flange within the bore of said socket and integral with said body for removably holding said head against outward displacement longitudinally of said body.

7. A one piece relatively soft and resilient hair curler comprising an elongated substantially cylindrical body having a longitudinally disposed kerf to define integral and hingedly associated hair holding elements, a reduced substantially cylindrical and elastic elongated hair retaining member overhanging one end of said body and integral with and swingably connected thereto, an enlarged resilient head integral with said member and defining therewith a shoulder, said member adapted to be projected longitudinally of said body to lie against the hair wound about said elements and to permit said head to extend beyond another end of said body, said last mentioned end comprising a bore adapted to removably receive said head, and an annular resilient flange integral with said body for removably retaining said head against outward displacement longitudinally of said body.

8. A one piece relatively soft resilient hair curler comprising an elongated substantially cylindrical resilient body having a longitudinally disposed kerf to define integral and hingedly associated hair holding elements, an attenuated substantially cylindrical elongated flexible and resilient hair retaining member overhanging one end of said body and integral with and swingably connected thereto, an enlarged resilient head integral with said member and defining therewith a shoulder, said member adapted to be projected longitudinally of said body to lie against the hair wound about said elements and to permit said head to extend beyond an opposite end of said body, said last mentioned end comprising a bore adapted to removably receive said head, and an expandable resilient annular flange integral with said body for removably interlocking with said shoulder to prevent outward displacement of said head relative to said body.

9. A one piece relatively soft resilient curler comprising an elongated resilient body having a longitudinally disposed kerf to define integrally and hingedly connected normally closed mutually contacting hair holding elements, an elastic member integral with said body, a resilient stay integral with said member, said elements being adapted to be separated to interpose therebetween a portion of hair to be wound about said elements in a closed relation thereof, said body having a socket, said elastic member adapted to be swung to lie against the hair wound about said elements, said stay being receivable in said socket, and resilient means integral with said body adapted to removably interlock with said stay.

NATHAN L. SOLOMON.