Feb. 9, 1926. 1,572,399

J. R. LEWIS

HAIR CURLER

Filed August 25, 1924

Fig 1

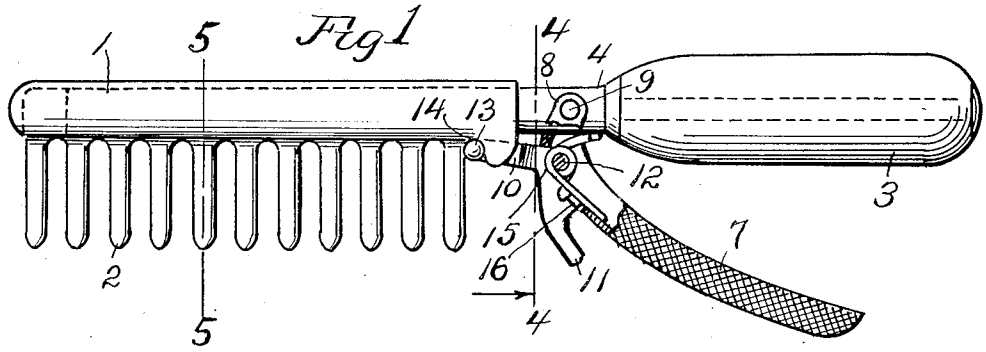


Fig 2

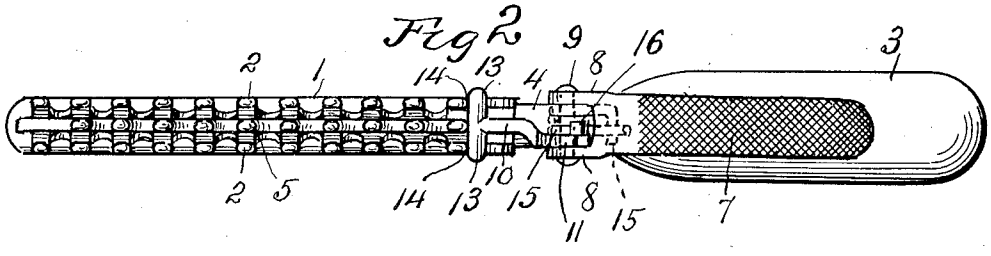


Fig 3

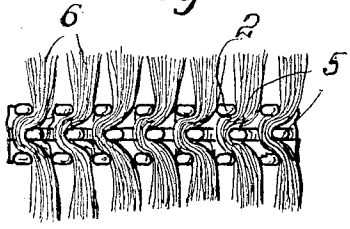


Fig 4

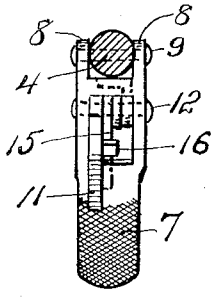
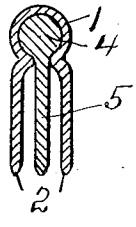


Fig 5



Witness:

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Patented Feb. 9, 1926. 1,572,399

UNITED STATES PATENT OFFICE.

JOSEPH R. LEWIS, OF KANSAS CITY, MISSOURI.

HAIR CURLER.

Application filed August 25, 1924. Serial No. 733,888.

To all whom it may concern:

Be it known that I, JOSEPH R. LEWIS, a citizen of the United States, residing at Kansas City, in the county of Jackson and State of Missouri, have invented a certain new and useful Improvement in Hair Curlers, of which the following is a specification.

My invention relates to improvements in hair curlers.

One of the objects of my invention is to provide a novel hair curler which will curl or wave the hair without injury thereto and without winding the hair around the heating iron, which is simple, cheap to make, durable, not liable to get out of order, which may be quickly assembled and disassembled for use and for heating, and which is quick and reliable in operation.

The novel features of my invention are hereinafter fully described and claimed.

In the accompanying drawing which illustrates the preferred embodiment of my invention,

Fig. 1 is a side elevation of my improved hair curler, partly broken away, the teeth of the shank being shown in register with the teeth of the tubular member.

Fig. 2 is a bottom view of the same.

Fig. 3 is a fragmental bottom view, showing the teeth of the shank disposed out of register with the teeth of the tubular member.

Fig. 4 is a cross section on the line 4—4 of Fig. 1.

Fig. 5 is a cross section on the line 5—5 of Fig. 1.

Similar reference characters designate similar parts in the different views.

1 designates a tubular member provided with two longitudinal parallel rows of laterally extending teeth 2, which register transversely with each other.

3 designates a handle mounted on a shank 4 of a handle member, the shank being adapted for removable insertion into the member 1, and being provided with a longitudinal row of teeth 5 extending laterally and adapted to register transversely with the teeth 2 and disposed between said teeth 2, as shown in Figs. 2, 3 and 5.

When the teeth are in the position shown in Figs. 1 and 2 they may be used like comb teeth and passed through the hair after which the shank 4, which has previously been heated to the proper temperature, and then inserted into the member 1, may have the latter moved thereon to the position shown in Fig. 3, in which position the teeth 2 will be out of register with the teeth 5, thereby crimping or curling the hair, the parts being held in this position for a short period of time, so as to give the hair a set. The hair in Fig. 3 is designated by 6.

For moving the member 1 to and from the registering position, shown in Figs. 1 and 2, the following described mechanism may be employed. 7 designates a lever having in one end two arms 8 which respectively embrace opposite sides of the shank core, to which the arms are pivoted by means of a transverse pin 9 which extends through the shank 4.

For sliding the member 1 on the shank 4 to and from the registering position, when the lever 7 is swung to and fro, there is provided a bell crank lever, having an arm 10 and an arm 11, the lever being pivotally mounted on a transverse pin 12 which extends through the arms 8, the bell crank lever being disposed between the arms 8. Said bell crank lever constitutes a releasable locking lever which releasably engages the member 1 and which is adapted to slide the latter to and fro on the shank 4. To effect this function, the arm 10, is provided with two oppositely extending lateral projections 13, adapted to respectively enter two notches 14 in the member 1.

Encircling the pin 12 is a coil spring 15, disposed between the arms 8 and bearing at one end against the shank 4 and at its other end against the inner side of the lever 7. The spring 15 normally swings the lever 7 away from the handle 3, thereby through the arm 10 of the locking lever forcing the member 1 to the registering position shown in Fig. 1.

For releasably holding the projections 13 in the recesses 14, the arm 11 is provided with a lateral projection 16 against the upper side of which bears the spring 15. To release the projections 13 from engagement with the member 1, so that the handle member may be withdrawn therefrom, for the purpose of heating the shank 4, it is but necessary to swing the arm 11 toward the handle 3 a sufficient distance.

In the operation of my invention, the shank 4 is heated to a proper temperature and then inserted into the member 1 with

the projections 13 disposed in the notches 14. All of the teeth will now be in the registering position shown in Figs. 1 and 2. The teeth 2 and 5 are then passed into the hair 6, following which the hand of the operator which holds the handle 3, swings the lever 7 toward the handle, thereby by means of the locking lever drawing the member 1 to the position shown in Fig. 3, thus moving the teeth 2 out of register with the teeth 5, and thereby crimping or curling the hair. The lever is held for a short time in this compressed position to give a permanent set to the hair. The lever 7 is then released upon which the spring 15 will swing the lever 7 to the registering position, the teeth 2 and 5 being first withdrawn from the hair.

When the shank 4 has cooled so as to require reheating, the operator with his or her forefinger swings the arm 11 toward the handle 3, thereby releasing the projections 13 from the member 1, upon which the shank 4 may be withdrawn from the member 1.

I do not limit my invention to the structure shown and described as many modifications within the scope of the appended claims may be made without departing from the spirit of my invention.

What I claim is:—

1. In a hair curler, a tubular member having two parallel rows of teeth which register transversely with each other, a handle member having a shank adapted for insertion into said tubular member and provided with a row of teeth between and parallel with said two rows of teeth, the handle member having a handle mounted on said shank, a lever pivoted to said shank, and means connecting said lever with said tubular member by which the latter may be moved on said shank to bring the teeth of the shank into and out of register with said teeth of said two rows.

2. In a hair curler, a tubular member having two parallel rows of teeth registering transversely with each other, a handle member having a shank adapted for insertion into said tubular member and provided with a row of teeth between and parallel with said two rows of teeth, the handle member having a handle mounted on said shank, a lever pivoted to said shank, a second lever pivoted to the first named lever and having means for releasably engaging said tubular member, said two levers being arranged to move the tubular member so as to bring the teeth thereof into and out of register with said teeth of said two rows.

3. In a hair curler, a tubular member having two parallel rows of teeth registering transversely with each other, a handle member having a shank and a handle mounted on the shank, the latter being adapted for insertion into said tubular member and provided with a row of teeth between and parallel with said two rows, a lever pivoted to the shank, and a locking member having means for releasably engaging said tubular member and mounted on said lever and movable thereon to and from locked engagement with said tubular member and arranged to move the latter to and from a position in which the teeth of the tubular member will register with the teeth of said shank, when said lever is swung.

4. In a hair curler, a tubular member having two parallel rows of teeth, a handle member having a shank and a handle mounted on the shank, the latter being adapted for insertion into said tubular member and having a row of teeth between and parallel with said two rows and adapted to register transversely with the teeth of said two rows, a lever pivoted to the shank, a locking lever pivoted to the first named lever and having means for releasable engagement with said tubular member and arranged when the first-named lever is swung to and fro to move the tubular member on said shank to and from a position in which the teeth of the latter will register with the teeth of the tubular member, and a spring bearing on said shank and on said two levers and normally forcing the first named lever to the registering position and the second named lever to the locking position.

In testimony whereof I have signed my name to this specification.

JOSEPH R. LEWIS.