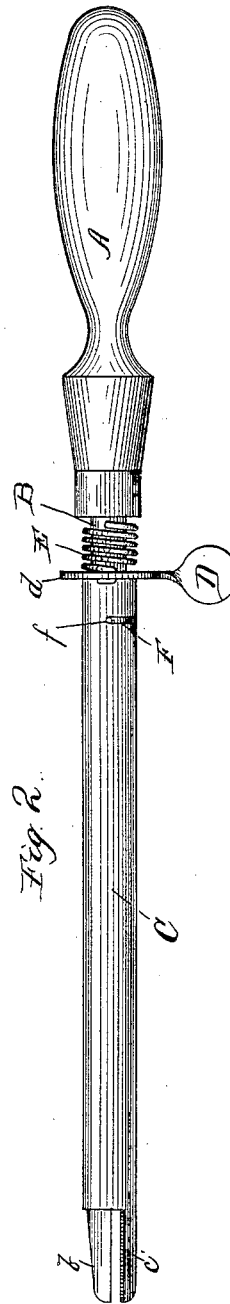
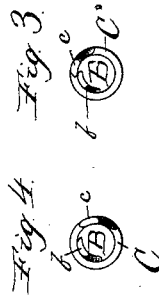
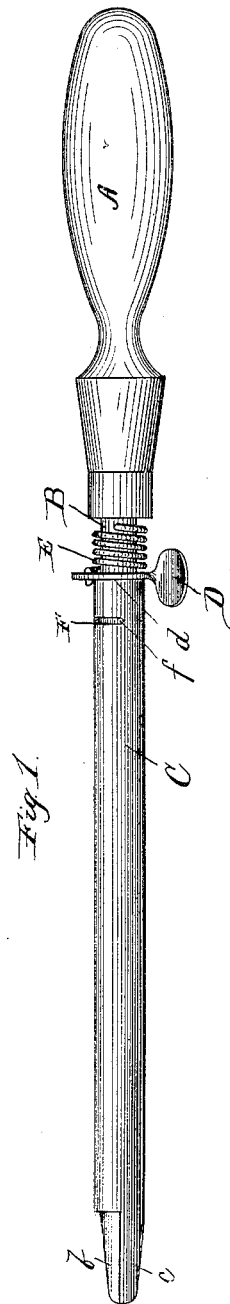


(No Model.)

J. R. CADWELL.
HAIR CURLER.

No. 419,243.

Patented Jan. 14, 1890.



Witnesses:
Law. E. Curtis.
H. M. Munday.

Inventor:
Jason R. Cadwell
By Munday Evans & Adcock
His Attorneys.

UNITED STATES PATENT OFFICE.

JASON R. CADWELL, OF CHICAGO, ILLINOIS, ASSIGNOR TO HIMSELF AND
WHITING G. PRESS, OF SAME PLACE.

HAIR-CURLER.

SPECIFICATION forming part of Letters Patent No. 419,243, dated January 14, 1890.

Application filed August 29, 1889. Serial No. 322,331. (No model.)

To all whom it may concern:

Be it known that I, JASON R. CADWELL, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented a new and useful Improvement in Hair-Curlers, of which the following is a specification.

This invention relates to the construction of metal hair-curlers, the object of the same being to obviate some of the objections which are present in the prevailing styles of devices used for that purpose.

The first and primary feature of the invention is found in the provision of a smooth round barrel or drum upon which the hair may be wound, the improvement consisting in such a barrel provided with jaws, between which the end of the lock may be caught preparatory to curling, and a suitable handle.

The invention further consists in a winding-barrel, essentially such as described, of automatically-closing jaws for engaging the end of the lock preparatory to curling.

It also consists in a curler composed of a metal rod carrying a stationary jaw and a rotatable cylinder carrying a movable jaw and mounted upon said rod.

The invention further consists in the novel features hereinafter fully set forth and claimed.

In the drawings, Figures 1 and 2 are side views of my improved curler, one showing the jaw open and the other closed. Figs. 3 and 4 are end views of the jaws, also showing the open and closed positions of the same.

In said drawings, A represents a suitable handle of material which will not conduct heat. To it is secured a rod B, preferably of brass, to avoid rust, and upon the farther end of this rod is formed a jaw *b*. Mounted upon the rod B is the tube C, also preferably of brass, and furnished with a jaw *c* at its outer end. The jaws *b* and *c* are intended to take hold of the end of the hair at the start of the curling operation. The tube C has sufficient freedom to be easily rotatable on the rod B, and such movement is imparted to it in one direction by the thumb of the person using the device pressing upon the lever D, secured to the tube near the handle, and preferably

by means of the collar or ring *d*, with which the lever may be integral, as shown. This movement, occasioned by pressure upon the lever, is intended to move the jaws *b* and *c* apart and give opportunity for the insertion of the hair between them. As soon as the end of the lock has been thus positioned the thumb is withdrawn from the lever and the tube is automatically rotated in the opposite direction to its normal position by the spring E, secured at one end to the rod and at the other to the ring *d*. This automatic movement results in the taking of a firm grip upon the hair, so that no aid from the fingers is necessary to retain it between the jaws after it has been once placed between them. The extent of the rotation of the tube may be controlled by the stop-pin *f*, inserted in the rod and projecting through the slot F in the tube. The exterior tube C forms a smooth drum or barrel upon which to wind the hair, and it may be thus wound, as soon as the end of the lock has been grasped by the jaws, by rotating the entire implement in the hand. At the completion of the operation the hair is readily released by again pressing upon the thumb-lever to open the jaws and then slipping it off the barrel. It will be noticed that the jaws *b* and *c* are short, compared with the length of the winding-barrel. They do not need to be long, as they have only to grasp the end of the lock to be curled, and I have found three-fourths of an inch is a sufficient length. The exterior of jaw *b* fits the interior of jaw *c*, and when they are brought together with their edges lapping by each other they take very firm hold of the hair, and they will retain that hold even if the implement is accidentally dropped from the hand, thus avoiding the trouble of making a fresh start in such cases.

My invention is very simple, not easily broken or deranged, and is very efficient and convenient in operation, and especially does it enable the user to avoid burning the fingers.

I claim—

1. The hair-curler consisting of a smooth drum having an unobstructed surface upon which the hair may be wound, a pair of clamping-jaws at one end of said drum to engage

the end of the hair, and a handle at the other end of said drum, substantially as set forth.

2. The hair-curler consisting of a smooth drum having an unobstructed surface upon which the hair may be wound, a pair of clamping-jaws at one end of said drum to engage the end of the hair, a handle at the other end of said drum, and a rod upon which said drum is mounted, substantially as set forth.

3. The hair-curler consisting of a smooth drum upon which to wind the hair, a rod upon which the drum is rotatably mounted, clamping-jaws at one end of the drum and rod, one jaw being upon each of said parts, and a handle at the opposite end of the drum and rod, substantially as set forth.

4. The hair-curler consisting of a rotatable drum, a rod upon which the drum is mounted, jaws, one upon said drum and one upon said

rod, closed together by the rotary movement of the drum for seizing the hair, and a handle at the other end of said drum and rod, substantially as set forth.

5. The hair-curler composed of a metal rod and a tube rotatably mounted upon said rod, both being provided with jaws, as specified, in combination with a suitable handle, substantially as and for the purpose set forth.

6. The hair-curler composed of a metal rod having a jaw *b*, a tube rotatably mounted upon said rod and provided with a jaw *c*, a retracting-spring and a thumb-lever for operating the tube, and a suitable handle, substantially as set forth.

JASON R. CADWELL.

Witnesses:

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