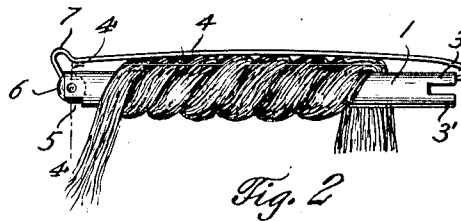
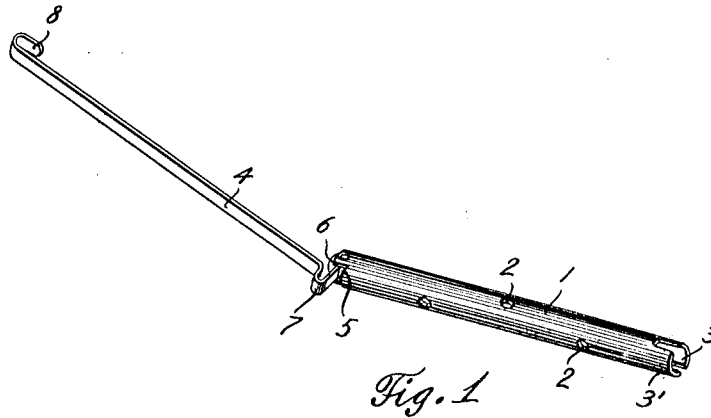


A. A. WEST & W. H. GATCHELL.
HAIR CURLER.
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984,331.

Patented Feb. 14, 1911.



Witnesses

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UNITED STATES PATENT OFFICE.

AUGUSTUS A. WEST, OF BROOKLYN, NEW YORK, AND WILLIAM H. GATCHELL, OF
RUTLEDGE, PENNSYLVANIA; SAID WEST ASSIGNOR TO SAID GATCHELL.

HAIR-CURLER.

984,331.

Specification of Letters Patent.

Patented Feb. 14, 1911.

Application filed May 20, 1910. Serial No. 562,484.

To all whom it may concern:

Be it known that we, AUGUSTUS A. WEST and WILLIAM H. GATCHELL, citizens of the United States, residing in the borough of Brooklyn, county of Kings, State of New York, and at Rutledge, in the county of Delaware and State of Pennsylvania, respectively, have invented certain new and useful Improvements in Hair-Curlers, of which the following is a specification.

This invention relates to hair curlers and is designed particularly as an improvement over the patent granted to E. D. Payne *et al.*, No. 861479, granted July 30, 1907.

It contemplates the construction of a hair curler wherein gum water may be injected into the hair through the instrumentality of the curler. Furthermore, the hair may be thoroughly dried when so desired by the peculiar construction of the curler admitting of a thorough ventilation of the hair.

With the above and other objects in view, this invention consists in the construction, combination, and arrangement of parts, all as hereinafter more fully described, claimed, and illustrated in the accompanying drawings, wherein—

Figure 1 is a perspective view of a hair curler constructed in accordance with the present invention, illustrating the same open and ready to receive the hair; Fig. 2 is a side elevation illustrating the hair curler in use; Fig. 3 is an end elevation of the tubular member with the spring clamp in section, illustrating the engagement of the spring clamp by the tubular member; Fig. 4 is a transverse section taken on the line 4—4 of Fig. 2.

The present invention resides in the provision of a tubular member about which the hair is adapted to be wound, said tubular member being provided with a plurality of openings through which air passes and retains the hair in a thoroughly ventilated condition. If so desired gum water may be forced through the tubular member and the openings piercing the same to the hair in order that the hair may retain the curl imparted thereto by the present invention. Another way of injecting gum water into the hair is by placing absorbent cotton within the tubular member which will also keep the hair moist with gum water.

A spring member is pivoted in one terminal of the tubular member through the

instrumentality of a ball, said spring member adapted to extend the entire length of the tubular member and a short distance beyond, and be engaged by one side of said tubular member, which is bifurcated adjacent the free terminal of said spring, when the curler is in use.

Referring now more particularly to the drawings, 1 indicates a tubular member pierced throughout its entire surface and at various intervals by the openings 2. One terminal of the tubular member is bifurcated forming the arms 3 and 3', one of said arms adapted to engage the free terminal of the spring clamping member 4 as herein- after more fully described. The opposite terminal of the tubular member is provided with a depression or recess 5 which permits the spring clamping member to be swung straight or in the same plane with the tubular member to permit the hair to be wound about said tubular member.

A ball 6 is pivoted in the tubular member adjacent to the depression or recess 5 and projects partially from said tubular member, said ball being constructed of any suitable material, preferably of lead and has the terminal of the spring clamping member 4 secured therein in any suitable manner.

The spring clamping member 4 is provided with an outwardly formed bend 7 adjacent to the ball 6, said bend being so located that the spring clamping member 4 will more readily curve to accommodate the coil of hair wound about the tubular member 1. The free terminal of the spring is bent upon itself to form the hook 8 which engages the arm 3 formed by the bifurcation in the tubular member 1.

From this construction it will readily be seen that when a coil of hair is wound about the tubular member 1, the spring clamping member 4 will be arched and thereby draw the hook 8 into the concaved portion of the arm 3, thus securely locking the free end of the spring and the tubular member into engagement. This construction retains the hair firmly upon the curler until it is desired to remove the same at which time the pressure is applied upon the spring arm permitting the hook 8 to be released from the concaved portion of the arm 3.

Should it be desired to use heat in the curling of the hair, a heated wire or similar implement may be inserted into the tubular

member, allowing the heat to circulate through the openings 2 to the hair wound about the tubular member. In this manner all danger of burning the hair and damaging the hair is eliminated.

5 It will be understood that by the provision of a recess or depression 5 in the tubular member 1 adjacent the ball 6, the spring member 4 may be swung into the same
10 plane with the tubular member 1 when it is desired to remove the hair, thereby eliminating damaging the curl in any way by the removal.

15 Having thus fully described our invention, what is claimed as new is:

In a hair curler, a tubular member having one extremity thereof bifurcated and a recess at the opposite extremity thereof, said tubular member being pierced by a plurality

of openings, a ball pivoted in the terminal 20 of said tubular member adjacent to said recess, a spring metal clamping member rigidly secured to said ball, an outwardly formed bend in said spring metal clamping member adjacent said ball, and a hook 25 formed at the free terminal of said clamping member adapted to extend beyond the extremity of said tubular member and engage the interior of one of the arms formed by said bifurcation when the device is in 30 operation.

In testimony whereof we affix our signatures in presence of two witnesses.

AUGUSTUS A. WEST.

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