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J. COGGANS

2,167,446

HAIR CURLER

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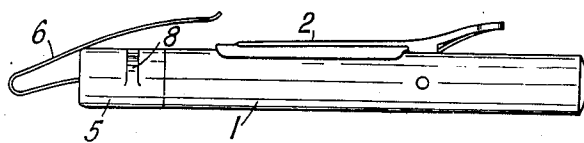


FIG. 1.

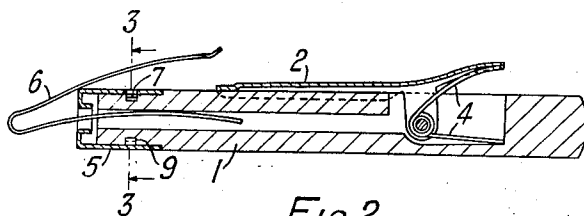


FIG. 2.

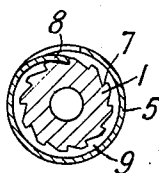


FIG. 3.

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UNITED STATES PATENT OFFICE

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HAIR CURLER

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2 Claims. (Cl. 132—33)

This invention relates to hair curlers of the type including a drum whereon is to be wound the wisp of hair to be curled, a spring-urged clamp mounted upon the drum and engageable with that portion of the wisp which, in the finished curl, forms the innermost convolution, and a finger grip rotatably mounted on the drum and serving as a carrier for a hair pin adapted to be applied to the finished curl on release of the clamp and on withdrawal of the drum from the interior of the curl.

In the operation of a hair curler constructed as described, the free end of the wisp of hair is clamped to the drum. Thereupon a hair pin is inserted into the finger grip and the finger grip is held by the fingers of one hand, treated for convenience of description as the left-hand. The fingers of the right-hand are now applied to the end of the drum remote from the finger grip and the drum is rotated by the fingers of the right-hand and supported by the fingers of the left-hand through the intermediary of the finger grip. Resistance to rotation of the drum is offered by the hair curl which naturally tends to straighten so that, in the rotation of the drum by the fingers in one direction, it tends to rotate in the opposite direction as soon as the fingers employed to rotate the drum are released, it being understood that no resistance to rotation is offered by the fingers of the left-hand which support the drum through the intermediary of the freely rotatable finger grip.

The present invention has for its object to provide means operating through the intermediary of the fingers which engage the finger grip adapted to prevent retrograde rotation of the drum.

With this object in view, the invention consists in the incorporation in a hair curler of the type described of a finger grip which is so mounted upon the drum as to confine the drum to uni-directional rotation so long as the finger grip is held against rotation.

According to a preferred embodiment of the invention, the drum is provided at the end which is adjacent to the finger grip with a circular row of ratchet teeth and the finger grip incorporates a spring-urged detent engageable with the ratchet teeth and limiting to one direction the rotational movement of the drum relatively to the finger grip.

As preferably arranged, the finger grip is in the form of a ferrule sleeving one end of the drum and provided with a detent tooth and the drum is formed with a circumferential groove ac-

commodating the tooth and presenting a circular row of ratchet teeth engageable with said tooth, engagement of the detent tooth with the ratchet teeth serving to prevent retrograde rotational movement of the drum relatively to the ferrule and engagement of the detent tooth with the walls of the groove serving to prevent axial displacement of the ferrule relatively to the drum.

Desirably, the ferrule is composed of resilient metal and the detent tooth is struck from the body of the ferrule.

A hair curler constructed in accordance with the invention is illustrated in the accompanying drawing in which Fig. 1 is an elevation, Fig. 2 a longitudinal section, and Fig. 3 a section drawn to a larger scale on the line 3—3 of Fig. 2.

The hair curler shown includes a drum 1 whereon is to be wound the wisp of hair to be curled. Mounted upon the drum 1 is clamp 2 urged by a spring 4 into engagement with that portion of the wisp of hair (not shown) which, in the finished curl, forms the innermost convolution. A finger grip 5 rotatably mounted on the drum 1 serves as a carrier for a hair pin 6 adapted to be applied to the finished curl on release of the clamp 2 and on withdrawal of the drum from the interior of the curl.

The drum 1 is provided at the end which is adjacent to the finger grip 5 with a circular row of ratchet teeth 7 and the finger grip incorporates a spring-urged detent tooth 8 engageable with the ratchet teeth 7 and limiting to one direction the rotational movement of the drum 1 relatively to the finger grip 5 so long as the finger grip is held against rotation.

The finger grip is shown as in the form of a metallic ferrule sleeving one end of the drum 1 and the detent tooth 8 is struck from the body of the ferrule and the drum is formed with a circumferential groove 9 accommodating the tooth 8 and affording the circular row of ratchet teeth 7.

It will be seen that engagement of the detent tooth 8 with the ratchet teeth 7 serves to prevent retrograde rotational movement of the drum 1 relatively to the ferrule and that engagement of the detent tooth 8 with the lateral walls of the groove 9 serves to prevent axial displacement of the ferrule relatively to the drum 1.

I claim:

1. A hair curler comprising, in combination, a drum provided with hair-clamping means and adapted to be rotated by the fingers of one hand, a finger grip rotatably mounted on said drum and adapted to be held by the fingers of the

other hand, and means confining said drum to uni-directional rotation so long as said finger grip is held against rotation, said last named means comprising a circular row of ratchet teeth formed on said drum at the end adjacent to said finger grip and a resilient detent formed on said finger grip and engageable with said ratchet teeth.

2. A hair curler comprising, in combination, a drum rotatable by the fingers of one hand and having a circumferential groove accommodating a circular row of ratchet teeth, a clamp mounted on said drum and adapted to clamp the hair to

be curled, a finger grip formed as a ferrule rotatably mounted on said drum and adapted to be held by the fingers of the other hand, a detent tooth formed on said ferrule and projecting into said groove so as to engage said ratchet teeth so that engagement of said detent tooth with said ratchet teeth prevents retrograde rotational movement of said drum relatively to said finger grip and engagement of said detent tooth with the walls of said groove prevents axial displacement of said finger grip relatively to said drum.

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