April 28, 1942. C. C. HOLDEN 2,281,291

HAIR CURLER

Filed Aug. 12, 1941

Fig. 1

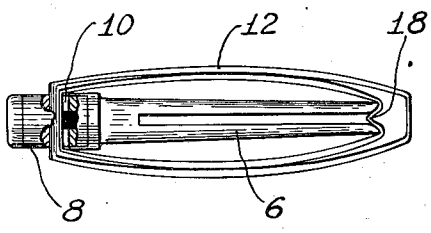


Fig. 2

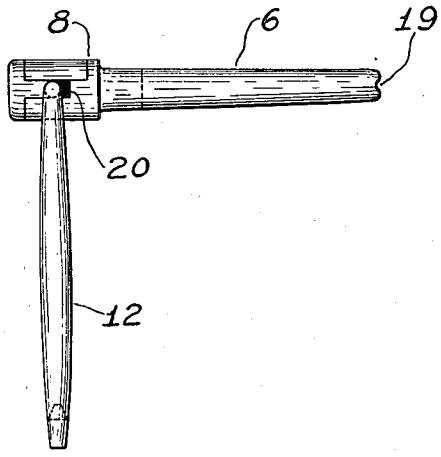
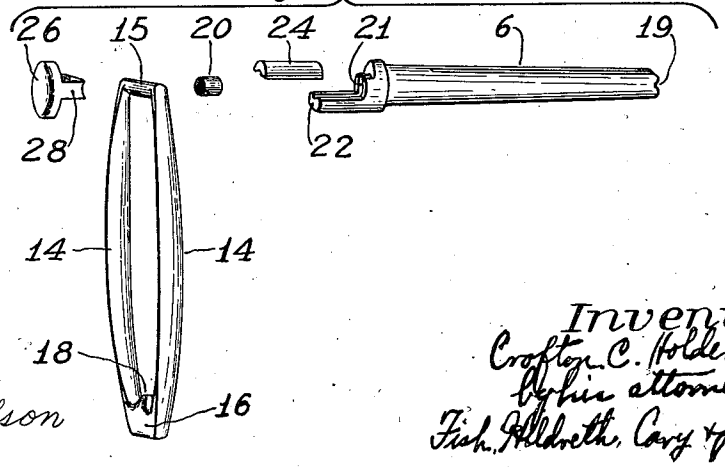


Fig. 3



Witness
Charles T. Olson

Inventor
Crofton C. Holden
by his attorneys
Fish, Aldreth, Cary & Jenney

Patented Apr. 28, 1942

2,281,291

UNITED STATES PATENT OFFICE

2,281,291

HAIR CURLER

Crofton C. Holden, Leominster, Mass., assignor to Tilton & Cook Co., Leominster, Mass., a corporation of Massachusetts

Application August 12, 1941, Serial No. 406,447

6 Claims. (Cl. 132—41)

The present invention relates to hair curlers, and has for its object to provide a simple, inexpensive and durable hair curler made substantially entirely of plastic materials.

The usual hair curlers employing a forked winding member are made of metal parts. These parts, together with the pins used to hold them together, frequently present burrs or rough edges which are likely to cut the hair. According to the present invention, no exposed metal parts are used, and the only surfaces which come in contact with the hair are of smooth plastic material.

In the accompanying drawing, Fig. 1 is an elevation, partly in section, of a curler according to the present invention; Fig. 2 is another elevation of the curler; and Fig. 3 is a perspective view of the several parts of the curler.

The illustrated embodiment of the invention comprises a bifurcated hair winding member 6, connected to a head 8. The head has an elongated aperture 10 to receive the loop or retaining member indicated generally at 12. For purposes of assembly, the head is of multiple-part construction, to be described later in detail.

The loop or bail member 12 is formed of plastic material in a single piece, and comprises two bowed arms 14, connected at the upper end by a cylindrical pivot portion 15, which is received in the aperture 10 of the head, and at the lower end by a fin 16 having a central projection 18, which is adapted to be received between the forked end portions of the winding member. As shown in Fig. 2, the legs of the winding member are notched at 19 to provide snap surfaces cooperating with the fin 16 to lock the parts in closed position.

While the arms of the loop may be sufficiently resilient to permit the device to be readily fastened and unfastened, it is preferable to provide additional resilience in the form of a yielding member, indicated as a small rubber plug 20, received in the socket 21 in the head and pressing outwardly against the pivot portion 15 of the loop.

To permit convenient construction and assembly, the head is made in several parts. One part, 22, is formed integral with the winding member 6, and is provided with the socket 21 within which the resilient plug 20 is received. A second part, 24, is cemented to the part 22, thereby forming a slot which is finally closed by a cap 26, having a projection 28 which fits in the slot and is of proper length to determine the aperture 10. With slightly greater complication of the mold structure, the part 24, as well as the part 22, may be molded integral with the winding member 6.

With the exception of the resilient plug, all of the parts are preferably made of thermo-plastic acetate material. The various parts of the curler are of shapes capable of being easily molded. The parts of the head are easily cemented together with a thin coating of solvent.

Having thus described my invention, I claim:

1. A hair curler comprising a bifurcated hair-winding member of plastic material and having a head with an elongated aperture therethrough, and a one-piece resilient loop of plastic material having a pivot arm received in the aperture, the ends of the winding member and loop having cooperating locking portions.

2. A hair curler comprising a bifurcated hair-winding member of plastic material and having a head with an elongated aperture therethrough, a one-piece resilient loop of plastic material having a pivot arm received in the aperture, the ends of the winding member and loop having cooperating locking portions, and a yielding member received in the head and bearing against the pivot arm of the loop.

3. A hair curler comprising a bifurcated hair-winding member of plastic material and having a head with an elongated aperture therethrough, a one-piece resilient loop of plastic material having a pivot arm received in the aperture, the ends of the winding member and loop having cooperating locking portions, and a resilient rubber plug received in the head and bearing against the pivot arm of the loop.

4. A hair curler comprising a bifurcated hair-winding member of plastic material and having an integral head portion, a one-piece resilient loop of plastic material having a pivot arm mounted on the head portion, and a cap member cemented to the head portion to complete a head which retains the pivot arm of the loop.

5. A hair curler comprising a multiple-part head, one part of which has an integral bifurcated hair winding member, the several parts being entirely of plastic material, and a resilient plastic loop member having a straight pivot portion received in the head, the several parts of the head being permanently secured together to retain the loop member, the ends of the winding member and loop member having cooperating snap surfaces.

6. A hair curler comprising a multiple-part head, one part of which has an integral bifurcated hair-winding member, the several parts being entirely of plastic material, a resilient plastic loop member having a straight pivot portion received in the head, the several parts of the head being permanently secured together to retain the loop member, the ends of the winding member and loop member having cooperating snap surfaces, and a resilient plug of rubber received in the head and bearing against the pivot portion of the loop.

CROFTON C. HOLDEN.