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F. FUSCALDO ET AL

2,149,215

HAIR CLIP AND CURLER

Filed March 30, 1938

Fig. 1

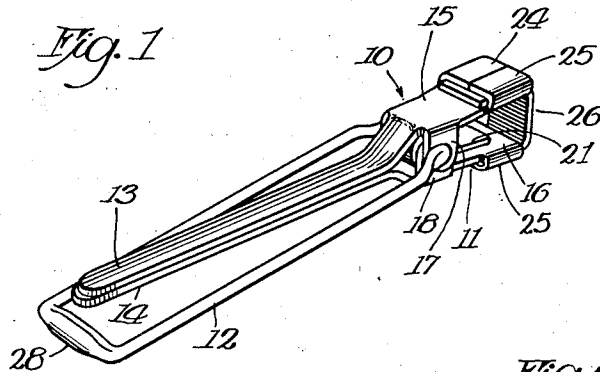


Fig. 2

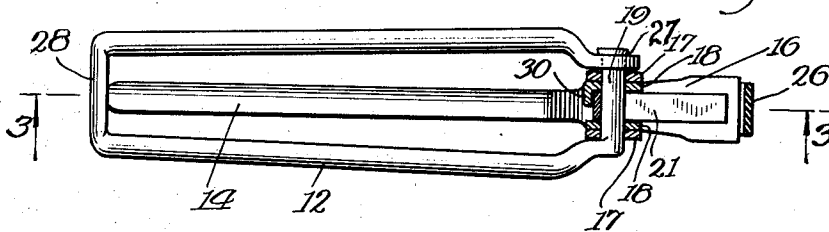


Fig. 3

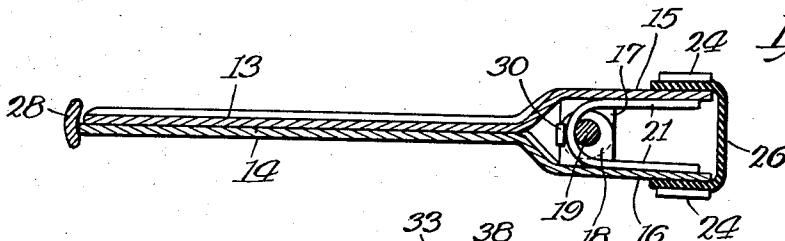


Fig. 5

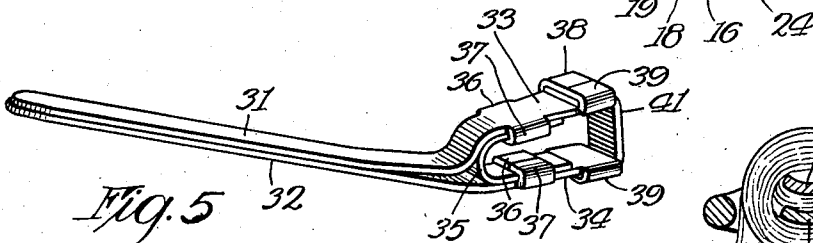


Fig. 4

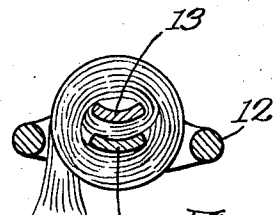
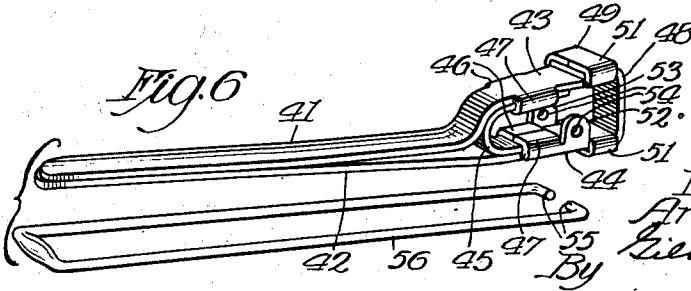


Fig. 6



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## UNITED STATES PATENT OFFICE

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## HAIR CLIP AND CURLER

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11 Claims. (Cl. 132—31)

This invention relates to toilet articles and more particularly to hair dressing equipment.

One of the objects of the invention is the provision of a new and improved combined pin and hair holder for use in dressing hair and impressing curls therein.

Another object of the invention is the provision of a hair curler provided with spring-pressed pivoted jaw or arm members having their rear ends provided with a flexible shield member extending over the rear ends of these members and having a novel loop or curl retaining member movable to a position over the forward ends thereof.

A further object of the invention is the provision of a new and improved hair pin having two jaw, clamping finger, or arm members connected together with a curved spring in such manner as to constitute a pivot for the jaw members together with novel means for preventing the hair from entering between the rear ends of the finger or jaw members.

Another object of the invention is the provision of a new and improved combined pin and hair curler having novel means for preventing the hair from entering between jaws or arms of the pin.

A further object of the invention is the provision of a new and improved hair curler made from light material and so constructed that it requires no ventilating openings or complicated arrangement of the parts.

A still further object of the invention is the provision of a new and improved hair pin and curler that is simple in construction, inexpensive to manufacture, easily assembled, and that may be readily applied and is efficient in operation.

Other and further objects and advantages of the invention will appear from the following description, taken in connection with the accompanying drawing, in which—

Fig. 1 is a perspective view of the curler device;

Fig. 2 is a top plan view thereof;

Fig. 3 is a side elevation of the device with a looped portion in section;

Fig. 4 is a transverse section of the curler showing the hair that is being treated in position therein;

Fig. 5 is a perspective view of a hair pin showing a modified form of the pin; and

Fig. 6 is a perspective view of a curler showing the pin and guard in separated position.

In the use of curlers, hair pins and the like, great difficulty has been experienced in so constructing the same that the hair will not become

entangled in the device during their application and removal. Considerable difficulty has also been experienced in so constructing a hair pin or a curler that it may be made at a minimum of time and expense.

It is common practice to provide hair curlers having clamping jaws of such dimensions that they must be provided with openings to permit air to have access to the hair for drying the same. Such an arrangement is objectionable because of the bulkiness of the device and its cost of production.

In the use of hair pins in dressing hair, the hair dresser, when his hands have been covered more or less with oil, ointment, and the like, employed by him in this operation, has experienced considerable difficulty in preventing the hair pins from turning or slipping out of his hands.

The present invention remedies this situation by providing a wide handle portion having retaining lugs thereon which enables the operator to firmly hold the device while using the same as a hair pin or as a hair curler.

The present invention seeks to remedy these defects by the provision of a simplified curler and pin of extremely light material that may be made and assembled at a minimum expense.

Referring now to the drawing, the reference character 10 designate a curler which comprises the pin portion 11 and the loop or keeper 12. The pin portion 11 comprises two fingers 13 and 14 which are concave in cross-section, as shown in Fig. 4, and which are provided at their inner ends with offset widened portions 15 and 16 constituting handles or finger pieces for the pin or curler. The handles 15 and 16 are provided with inwardly extending ears 17 and 18 at each side thereof, the ears being adapted to overlap.

The overlapping ears are provided with an aligned opening for receiving a pivot pin 19 for connecting the fingers together. The fingers are normally held in clamping position by any suitable means such as a U-shaped spring 21, see Fig. 3, which extends between the handle portions 15 and 16 and around the pivot pin 19.

Appropriate means are provided for limiting the inward movement of the spring. In the form shown, a lug 30 on one or both of the ears 18, Fig. 2, is provided for that purpose. The ends of the spring may be extended, if desired, and bent partially around the end of the handle portions for accomplishing the same purpose.

Suitable means are provided for preventing hair from entering between the handle members

15 and 16 while the pin is being used. As shown, each handle member is provided with tabs or ears 24 and 25 which are adapted to be bent over on the handle portions 15 and 16 for clamping the ends of the flexible member 26 against said handles as shown more clearly in Fig. 1 of the drawings. The guard or flexible member 26 may be of rubber, canvas or any other suitable material that is stiff enough and resilient enough to retain the curve therein when the handle members are pressed toward each other.

Suitable means are provided for preventing the unrolling of the hair. In the form of the construction shown, a keeper 12 is provided. This keeper is in the form of a wire loop having its inner ends connected to the pivot 19. If desired, the pivot 19 may be integral with one of the fingers, as shown more clearly in Fig. 2, and extend through an eye 27 on the other end of the loop. The central portion of the loop is preferably flattened as shown at 28 and may be slightly concave toward the jaws 13 and 14 at least one of which is adapted to snap into this concave recess for holding the keeper in operative position. In the use of the device, the outer ends of the hair to be curled are clamped between the fingers 13 and 14 and then rolled about the fingers as shown in Fig. 4. When the device is rolled against the head, the keeper 12 is moved over the roll of hair and snapped in position and the roll left to dry.

In Fig. 5 is shown a modified form of pin. In this form of the construction, a pair of fingers 31 and 32 are employed. The finger 31 extends rearwardly at slight angle to form the flat handle portion 33 and the finger 32 has a flat handle portion 34 offset therefrom. The fingers 31 and 32 are connected together by a spring 35 which has its ends rigidly secured to the handle portions 33 and 34 in any suitable manner. As shown, each of the handle members 33 and 34 has lugs 36 and 37 at the side edges and these are adapted to be bent inwardly and over onto the ends of the spring for holding the same rigidly to the handle members. This spring constitutes a pivot for the pin and also means for clamping the finger members together. The outer ends of the handle members 33 and 34 are each provided with integral tabs or ears 38 and 39 which are adapted to be bent over onto the corresponding handle portion for clamping the ends of a guard 41 in position thereon as in the previous construction.

Suitable means may be provided whereby a pin of the type shown in Fig. 5 may be employed as a part of the curler. In this form of construction, the finger members 41 and 42 correspond to the finger members or jaws 31, 32 of the form shown in Fig. 5. They have rearwardly projecting flat portions 43 and 44 that are substantially parallel. In this form, a U-shaped spring 45 is held in position between the handle portions 43 and 44 by tabs 46 and 47 on each handle portion to pivotally connect the fingers together. A guard 48 is held by tabs 49 and 51 on each handle member. As shown, the central portions at each side of the handle members 43 and 44 are bent upwardly as shown in Fig. 6 to form ears 52 and 53 that are provided with openings 54 which are adapted to receive the intumed ends 55 of a keeper 56. The keeper 56 functions in substantially the same manner as the keeper 12 and further description appears to be unnecessary.

In all forms of the device, the handle portion is flat which is adapted to prevent the device from turning in the user's fingers. Furthermore,

the tabs for retaining the guard in position constitute means for assisting the fingers to grip and hold the pin.

The device, as shown in Fig. 6, may be used as a pin alone or as a hair curler. When used as a pin, the keeper 56 is removed. The ears 52 and 53 may be omitted entirely, as shown in Fig. 5, in which event the device is used as a hair pin alone.

It is thought from the foregoing taken in connection with the accompanying drawings that the construction and operation of our device may be apparent to those skilled in the art and that changes in size, shape, proportion and detail may be made without departing from the spirit and scope of the appended claims.

We claim as our invention:

1. In a hair curler device, a pair of fingers, means for pivoting said fingers together adjacent their inner ends, a loop of light material pivoted to said means and movable to a position to embrace said fingers, said fingers being extended inwardly beyond the pivot to form handles, and a loop of flexible material extending about the free ends of said handles and having its ends clamped to the outer sides of said handles.

2. In a hair curler device, a pair of fingers having their inner ends forming handle members for operating said fingers, means adjacent said handles for movably connecting said fingers together so they may be separated by said handles to clamp a lock of hair between them, and a flexible but slightly resilient member extending around the ends of said handle members for preventing hair entering between said handles during use.

3. In a device of the class described, a pair of fingers each having a flat handle portion, a U-shaped spring between said fingers with the ends extending toward the handle portions, means for rigidly connecting said spring to said fingers, said spring constituting the pivotal connection between said fingers, and a slightly resilient flexible member forming a loop about and rigidly secured to the ends of the handle portion.

4. In a device of the class described, a pair of narrow fingers curved in transverse cross-section and adapted to interengage, means for pivotally connecting said fingers together, and a wire loop extending about the ends of said fingers, said loop being pivoted to move from a position parallel to said fingers to a position at an angle thereto, said loop having a concave surface for receiving the free end of one of said fingers for detachably holding the loop in clamping position on said fingers.

5. In a device of the class described, a pair of narrow fingers curved in transverse cross-section and adapted to interengage, means for pivotally connecting said fingers together, a wire loop, and means for pivotally connecting said loop to said device and movable to one position extending about said fingers and to another at an angle thereto, the connecting portion of said loop having a concavity on the connecting portion for snapping on to the end of one of said fingers for holding said loop in operative position.

6. In a device of the class described, a hair pin comprising a pair of finger members having their inner ends flattened, a U-shaped spring having its ends extending toward the outer ends of handle portions and rigidly secured thereto, and a flexible, slightly resilient guard member extending about the free ends of said handle portions and rigidly secured thereto.

7. In a device of the class described, a hair pin comprising arms terminating in comparatively wide flat handle portions, said arms being curved in cross-section and having their outer ends nested and their inner portions spaced apart, a U-shaped spring between the handle portions with its ends extending toward the free ends of the handle portions, tabs on the handle portions for clamping said spring in position, a flexible guard rigidly connected to and extending about the ends of the handle portions, and tabs on said handle portions for clamping said guard in position, said fingers and handle portions extending in planes at an angle to each other.

8. A hair pin comprising a pair of members each having a finger portion and a handle portion, a U-shaped spring rigidly secured to the handle portions, the connecting portion of said spring turned toward said finger portion, and a flexible non-metallic guard extending between said handle portions and rigidly secured thereto to prevent the entrance of hair between said handle portions while in use.

9. A hair pin comprising a pair of members each having a finger portion and a handle portion, a U-shaped spring rigidly secured to the handle portions, the connecting portion of said spring turned toward said finger portion, a flexible resilient guard extending between said handle portions and rigidly secured thereto to prevent the entrance of hair between said handle por-

tions while in use, and a wire loop extending about the end of said finger portions and having a flat outer member for engaging the outer end of one of said finger portions.

10. In a device of the class described, a pair of narrow solid fingers having flat inner ends, a resilient member for pivotally connecting said fingers together, each flat portion having inner, outer and intermediate pairs of tabs along its edges, said inner tabs being bent over on said resilient member for holding the same, a flexible guard extending about the ends of said handle members, said outer pair of tabs being clamped against said guard member for holding the same in position, said intermediate pair of tabs extending in a plane at right angles to said handle portion, and a wire loop extending about said fingers and pivoted to said tabs.

11. In a device of the class described, a pair of gripping jaws of thin narrow material each having a widened portion at its inner end to form a handle or finger piece, ears on said widened portions for forming handle portions, ears on said handle portions, a pivot extending through said ears, a U-shaped spring extending around said pivot and having its ends extending rearwardly, and a lug on one of said ears for limiting the forward movement of said spring.

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