Sept. 11, 1962 A. T. BRETON 3,053,264

PHARMACEUTICAL HAIR DEVICE HAVING HOLLOW TEETH

Filed May 18, 1959

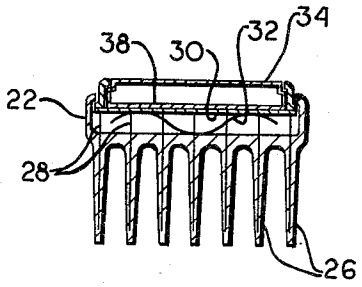


FIG. 3

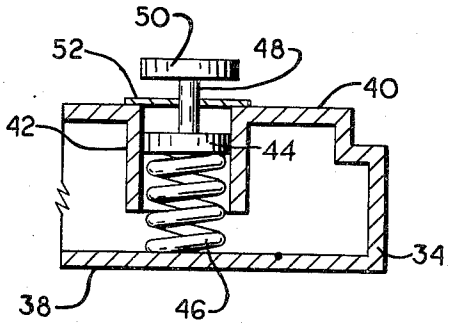


FIG. 5

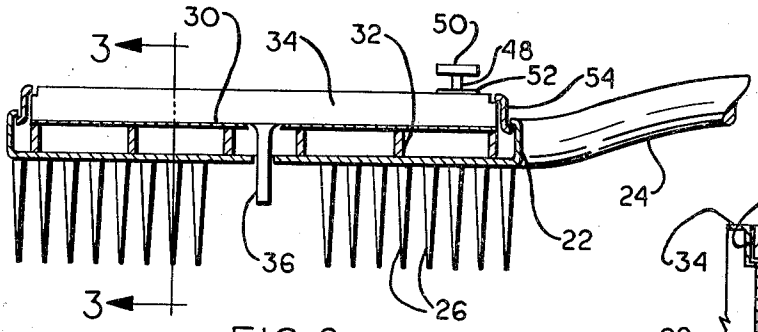


FIG. 2

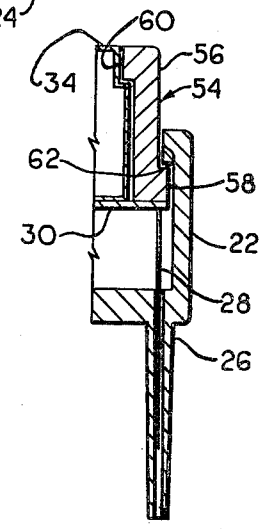


FIG. 4

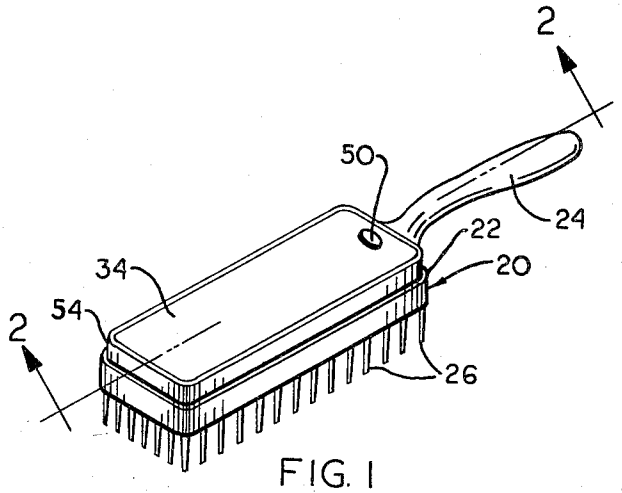


FIG. 1

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PHARMACEUTICAL HAIR DEVICE HAVING HOLLOW TEETH

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The present invention relates to a hair dressing or scalp treating device such as a hair brush or comb.

The present invention contemplates a brush or comb including an upper support. A plurality of hollow teeth depend from the support. The lower ends of these teeth are adapted to engage the hair and scalp of the user, and being hollow are adapted to pick up the oil or other sediment upon the scalp. The invention further contemplates a plurality of pins which extend from the top of the hollow teeth into the teeth and which can be moved downwardly for ejecting the oil or sediment from the lower ends of the teeth.

Preferably the pins are carried by a carriage whereby all of the pins may be operated simultaneously. Also resilient means is employed for normally retaining the pins in the retracted upper position.

Furthermore the present invention contemplates a fluid container carried by the carriage. A tube extends downwardly from the fluid container; it is open at the lower end and its upper end is in open communication with the interior of the container. This container may contain a detergent, or a pomade, or any suitable medicinal fluid. Any suitable type of pumping mechanism may be employed for ejecting the fluid from the container through the tube and onto the scalp of the user.

Further objects and advantages will be apparent from the following description, reference being had to the accompanying drawings wherein a preferred embodiment of the invention is illustrated.

In the drawings:

FIG. 1 is a perspective view of the hair dressing device and is herein shown as a hair brush;

FIG. 2 is a view partly in section, the section being taken along line 2—2 of FIG. 1 but showing the handle and the fluid container in elevation;

FIG. 3 is a sectional view taken on line 3—3 of FIG. 2;

FIG. 4 is a fragmentary sectional view of a corner of the hair brush but on a larger scale; and

FIG. 5 is a fragmentary sectional view of the pump employed.

Referring more in detail to the drawings, the hair dressing or scalp treating device, for illustrative purposes, is shown as a hair brush 20 which includes a pan shaped support 22 which merges into a handle 24. A plurality of teeth 26 depend from the bottom of the pan type support 22. These teeth are hollow throughout their entire length. In brushing the bottom ends of the teeth across the hair and scalp, oil and other sediments are picked up by the teeth and enter the hollow ends of these teeth.

Each of the hollow teeth is provided with a resilient longitudinally extending pin 28. These pins are guided by the interior walls of the hollow teeth and they are supported at their upper ends by a carriage in the form of a plate 30. This plate is normally urged upwardly by a plurality of leaf springs 32 which are interposed between the inner side of the bottom of the pan shaped support 22 and the bottom of the plate 30. The lower ends of these pins are normally terminating above the lower ends of teeth 26. By pushing downwardly upon the plate 30, the lower ends of the pins 28 will be extended to at least the

bottom of the teeth for ejecting any material which may be lodged in the hollow teeth.

The plate 30 carries a container 34 which may be formed of metal or plastic. A tube 36 extends from the bottom wall 38 of the container 34 for conveying fluid from the container to the hair and scalp of the user of the brush. A pump is provided for ejecting fluid from the container 34 to the tube 36. Any type of pump may be employed for this purpose but in the instant case I have shown a piston type pump in which the upper wall 40 of container 34 forms a downwardly extending cylinder 42 for receiving a piston 44. The piston is normally urged upwardly by a coil spring 46 which is interposed between the bottom wall 38 of the container and the lower side of the piston 44. Piston 44 is operated through a rod 48 which rod is pushed downwardly by a button 50. A plate 52 covers the top of the cylinder 42 and may be held in place by adhesive or any other suitable means.

The container 34 is held in place by a ring 54 which is Z-shaped in cross section including an upright portion 56, an outwardly extending ledge 58 and an inwardly extending ledge 60. The outwardly extending ledge 58 hooks underneath an inwardly extending ledge 62 on the pan type support 22, and the inwardly extending ledge 60 hooks over the top of the container 34. Either the ring 54 or the side walls of the pan shaped support, or both, may be formed of resilient material whereby the ring can be snapped in position and held by the resiliency of these elements. In the instant embodiment the side walls of the pan shaped element are sufficiently resilient so as to receive the ledge 58 below the ledge 62.

The teeth 26 and the pins 28 are sufficiently resilient so that they can be flexed somewhat and thereby can follow the contour of the scalp of the user.

While the form of embodiment herein shown and described constitutes a preferred form, it is to be understood that other forms may be adopted falling within the scope of the claims that follow.

I claim:

1. A hair dressing or scalp treating device comprising an upper support; a plurality of resilient hollow teeth, each having upper ends depending from the support and each having lower ends adapted to touch the scalp of person using same; resilent clean-out pins movably supported in the hollows of the teeth, the lower ends of these pins normally terminating above the lower ends of the hollow teeth; a movable carriage carried by the support, said pins being supported by the carriage and movable therewith; manual means for moving said carriage to extend the pins to at least the said lower ends of the teeth; a fluid container carried by the carriage; a tube extending downwardly from said container alongside certain of said teeth, the lower end of said tube being open and the upper end thereof being in open communication with the interior of the container; and a pump for ejecting fluid from the container through said tube.

2. A hair dressing or scalp treating device as defined in claim 1, including resilient means normally urging the carriage to a position in which the pins are retracted away from said lower ends of the teeth.

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