Aug. 9, 1932. R. E. NOYES 1,870,641

COMB

Filed March 25, 1931

Fig. 1

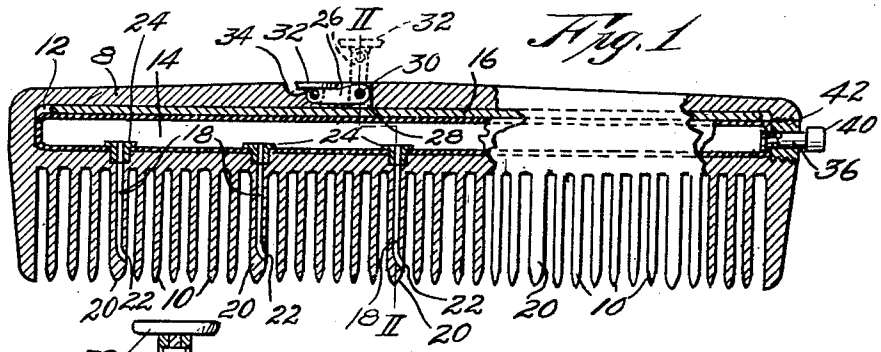


Fig. 2

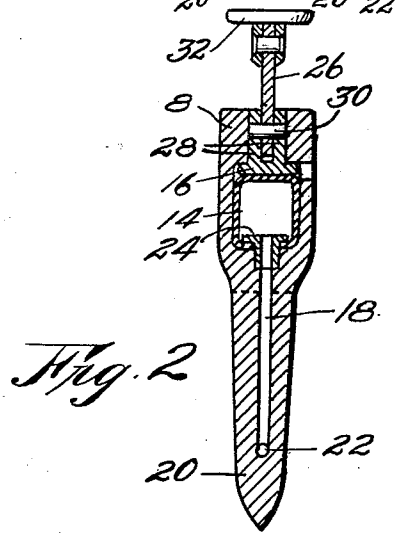


Fig. 3

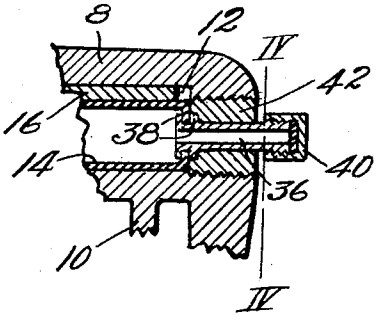


Fig. 4

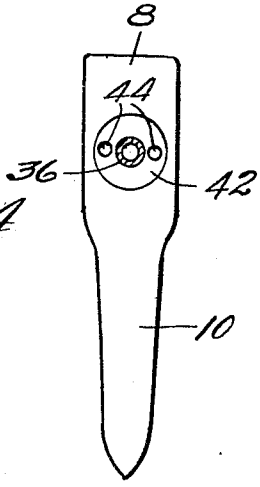
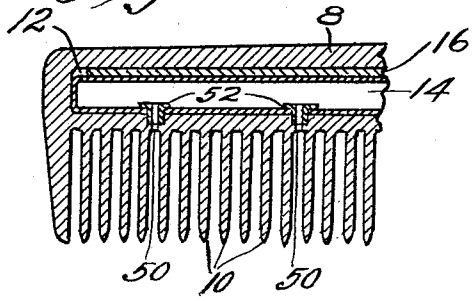


Fig. 5



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UNITED STATES PATENT OFFICE

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COMB

Application filed March 25, 1931. Serial No. 525,123.

This invention relates to combs and particularly hair combs having structure whereby treatment of the hair and scalp can be effected by the application of liquid while using the comb.

One of the primary objects of the instant invention is the provision of a comb having as a part thereof, novel features including a cavity in the body of the comb, a plurality of glands extending from the cavity to the points of discharge, spaced inwardly from the end of the gland-forming tooth, and appropriate feeding apparatus disposed within said cavity.

A yet further object of the invention is the provision of a novelly constructed hair comb wherein is provided a plurality of glands extending from a reservoir, formed by the comb body, and each having a lateral discharge portion positioned to empty a supply of liquid from a point between the teeth of the comb.

Specific structural details embodying the features of this invention, together with other objects and method of forming such a comb will be made evident during the course of the following specification, referring to the accompanying drawing, wherein:

Figure 1 is a broken, vertical, central section taken longitudinally, of a comb embodying features contemplated by the present invention.

Fig. 2 is an enlarged, vertical, cross section through the same taken along line II—II of Fig. 1.

Fig. 3 is an enlarged, fragmentary, sectional view taken through the filler tube and plug at one end of the comb.

Fig. 4 is a vertical section taken through the filler tube at the end of the comb on line IV—IV of Fig. 3, and,

Fig. 5 is a fragmentary, vertical, central, longitudinal, section through a portion of a comb constructed in accordance with a modified form of the invention.

Like reference characters designate similar parts throughout the several views and the numeral 8 indicates a comb body having a plurality of teeth 10 extending therefrom in the usual manner. A longitudinal cavity 12, formed in body 8, receives a collapsible reservoir 14 which may be made of rubber or similar material having the desired property and characteristics. This reservoir 14 may be filled with liquid of any kind which is desired to be applied to the hair or scalp during the use of the comb. The application action might be caused through the use of apparatus shown, which preferably consists of a plate 16, coextensive with reservoir 14 and resting against the side wall thereof.

Reservoir 14 might be molded of rubber or similar substance which allows collapsing when pressure is exerted upon plate 16. When such pressure is exerted, liquid contained within reservoir 14 is forced therefrom through all of glands 18 which are formed in a predetermined number of the teeth of the comb. Teeth 20 forming glands 18 are slightly larger than teeth 10 and each gland 18 terminates in a lateral discharge portion 22, spaced inwardly from the end of tooth 20. As indicated in Fig. 1, this construction allows the discharge of liquid at a point between the respective tooth 20 and the tooth 10 next adjoining. This feature is one of the salient points of invention and is likewise shown in the modified form. The reason for positioning the discharge end of each gland 18 at such a point is obvious. There is no likelihood of clogging and the liquid being discharged is actually drawn or wiped along the side of hair passing between the teeth.

An effective connection between each gland 18 and reservoir 14 is established through the use of bushings 24 which project into an enlarged portion of gland 18 and which are provided with heads, whereby gland and reservoir 18 and 14 respectively are connected in a manner which prevents leaking.

Suitable manually operable means for conveniently depressing reservoir 14 is provided in the form of the pivotally connected arm 26, supported by plate 16 between upstanding lugs 28. A pin 30 maintains arm and plate in assembled relation and a head 32 might be pivotally attached at the free end of arm 26. A depression 34 receives

arm and head 26 and 32 respectively when the comb is not being used as an applicator. Means for filling reservoir 14 without removing the same from its position within cavity 12 might be provided in the form of a filler tube 36, doubly flanged as at 38 to engage the end of reservoir 14 and passing to a point without cavity 12 where it is closed by a cap 40 which may be removably affixed through the intermediacy of screw threads or the like.

As indicated in Figs. 1, 3 and 4, filler tube 36 passes through plug 42 and serves the purpose of connecting plug and reservoir, whereby the two may be removed from the comb without disassembling. Plug 42 is screwed into an opening formed through the end of body 8 and sockets 44 may be formed in plug 42 to receive a spanner wrench when removing or placing the plug. The opening which plug 42 enters is large enough to receive reservoir 14 and plate 16 and it is through this opening that such parts are moved to the operative position.

In the modified form illustrated in Fig. 5, the comb itself is substantially the same as that previously described. The body 8 has teeth 10 and a cavity 12. Reservoir 14 and its actuating plate 16 are the same as before described. In this instance, however, glands 50 are positioned between teeth 10, at the base thereof, and bushings 52 set up connection between the reservoir 14 and glands 50 so that liquid passing through the glands will not escape between the outer face of reservoir 14 and the cavity walls.

It is understood that materials of various types and characters might be used to form a comb embodying the features of this invention and that many modifications in the specific structure might be made without departing from the spirit thereof or the scope of the appended claims.

Having thus described the invention, what is claimed as new and desired to be secured by Letters Patent is:

1. A comb comprising a body; a plurality of teeth integral therewith; a cavity formed within the body; a gland formed in each of a number of said teeth; and means for manually forcing a predetermined amount of liquid from the cavity through all of the glands.

2. A comb comprising a body; a plurality of teeth integral therewith; a cavity formed within the body; a gland formed in each of a number of said teeth; and means for manually forcing a liquid from the cavity through all of the glands; said glands and cavity being in communication adjacent the base of said teeth, each gland terminating in a lateral discharge portion spaced inwardly from the end of the tooth forming the same.

3. A comb comprising a body; a plurality of teeth integral therewith; a cavity formed within the body; and a gland formed in each of a number of said teeth, said gland terminating in a lateral discharge portion directed toward the next adjoining tooth.

4. A comb comprising a body; a plurality of teeth integral therewith; a cavity formed within the body; a gland formed in each of a number of said teeth, said gland terminating in a lateral discharge portion directed toward the next adjoining tooth; and means for forcing a liquid from the cavity through all of said glands simultaneously.

5. A comb comprising a body; a plurality of teeth integral therewith; a cavity formed within the body; a plurality of glands in communication with the cavity at their one end and terminating between the said teeth at their opposite end; and means for forcing a liquid from the cavity through all of said glands including a collapsible reservoir within the cavity and a bushing connecting each gland respectively and said reservoir.

6. A comb comprising a body; a plurality of teeth integral therewith; a cavity formed within the body; a plurality of glands in communication with the cavity at their one end and terminating to project liquid between certain teeth at their opposite end; and means for forcing liquid from the cavity through all of said glands comprising a collapsible reservoir within the cavity; a plate coextensive with said reservoir and an arm supported by the plate movable to and from a position projecting beyond the edge of surface of said body.

7. In a hair-treating comb, a body having a cavity formed therein; a collapsible reservoir within said cavity; an assembly opening through the body wall for the placing of said reservoir; and a plug removably secured in said opening having a filler tube for the reservoir passing therethrough.

8. In a hair-treating comb, a body having a cavity formed therein; a collapsible reservoir and a plate within said cavity; an assembly opening through the body wall for the placing of said reservoir and plate; a plug removably secured in said opening; and a filler tube for the reservoir passing through said plug and securing said reservoir and plug in assembled relation.

In testimony whereof, I hereunto affix my signature.

RAYMOND E. NOYES.