July 26, 1949. M. W. GIDDINGS ET AL 2,477,245

HAIR APPLICATOR

Filed Aug. 12, 1946

Fig. 1.

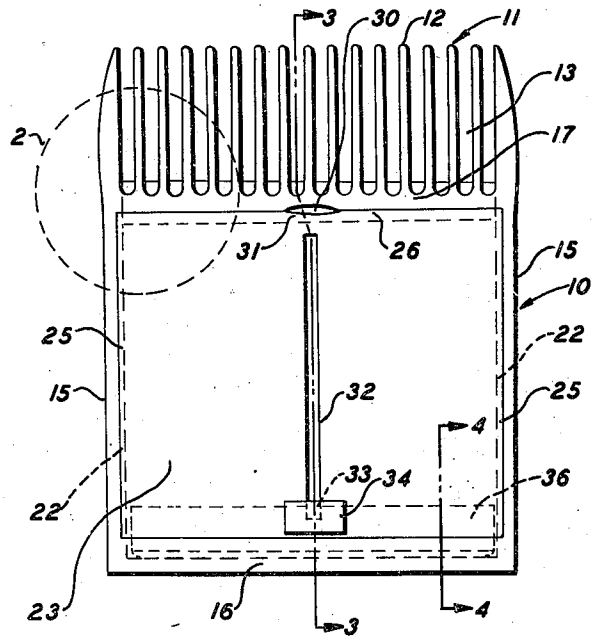


Fig. 2.

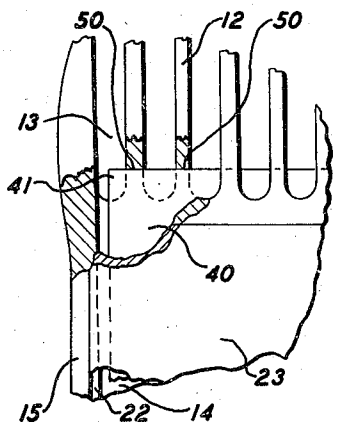


Fig. 3.

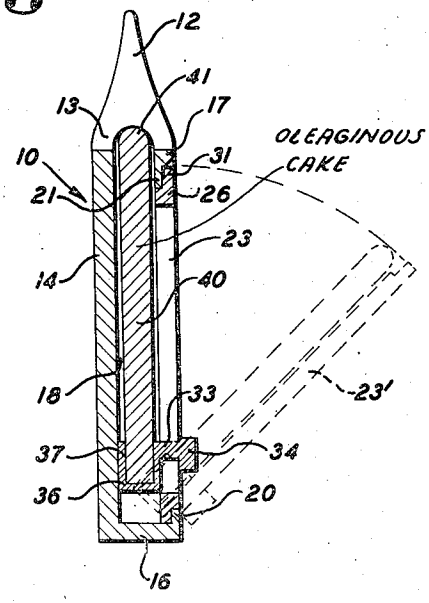
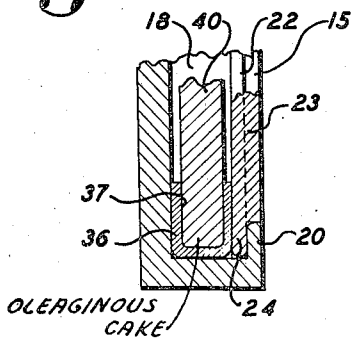


Fig. 4.



INVENTORS
MARION W. GIDDINGS
SUPH HIKELL
BY
Jesse P. Mann
ATTORNEY

Patented July 26, 1949 2,477,245

UNITED STATES PATENT OFFICE

2,477,245

HAIR APPLICATOR

Marion W. Giddings, Pasadena, and Suph Hikell, Tarzana, Calif.

Application August 12, 1946, Serial No. 690,031

11 Claims. (Cl. 132—12)

1

Our invention relates to a simple device for applying conditioning or treating substances to the hair, and relates in particular to a small and conveniently usable applicator whereby a solid compound comprising beneficial oils or essences, or a grease, may be applied to the hair to supplement natural oils or to replace natural oils lost from the hair.

It is an object of the invention to provide an applicator comprising a compact container of flat form, which may be easily handled and occupies small space, this container having a comb formed along one end thereof and an internal cavity of flat form, one edge of which cavity communicates with the inner ends of the spaces between the teeth of the comb, there being in the cavity a flat cake or bar of the substance which is to be applied to the hair, and means for moving this cake so that an edge thereof will be moved into that edge portion of the cavity which communicates with the teeth interspaces, and therefore will be exposed at the inner ends of the teeth interspaces for contact with the hair when the comb is passed through the hair in the ordinary manner of using a comb.

It is a further object of the invention to provide a comb-equipped and chambered applicator and a flat body or cake of one or more beneficial oleaginous substances, this body being characterized by having sufficient solidity and coherence to cause it to retain its form, but being of such constituency that it will readily adhere to the hair and will be readily fed to the hair through the chamber openings provided by the inner ends of the spaces between the comb teeth.

A further object of the invention is to provide an applicator having a body of flat form with a comb formed along one of its edges and a flat recess extending in from one side of the body, an edge of this recess communicating with the teeth interspaces. For this recess a cover is provided which is held in place without the use of hinges and carries means operable from the exterior of the applicator to hold one edge of the body of applicable substance and to move the same into the inner ends of the teeth interspaces.

Further objects and advantages of the invention may be brought out in the following part of the specification, wherein specific description is for the purpose of presenting a full and complete disclosure without limiting the scope of the invention as defined in the appended claims.

Referring to the drawings, which are for illustrative purposes only:

2

Fig. 1 is a face view to enlarged scale of a preferred embodiment of the invention;

Fig. 2 is a partly sectioned fragmentary view, to enlarged scale, of that portion of Fig. 1 indicated by the dotted circle 2;

Fig. 3 is a sectional view taken as indicated by the line 3—3 of Fig. 1;

Fig. 4 is an enlarged fragmentary sectional view taken as indicated by the line 4—4 of Fig. 1.

As shown in Fig. 1, the applicator includes a body 10 having a comb 11 formed along one end thereof, this comb consisting of teeth 12 separated by spaces 13 referred to herein as the comb teeth interspaces. As shown in Figs. 1 and 2, the body 10 has a rearwardly disposed side wall 14, two edge walls 15, and a bottom wall 16 cooperating with a laterally directed wall portion 17 at the lower edge of the comb 11 to form a narrow recess 18.

As shown in Fig. 3, the recess 18 extends upwardly under the laterally directed wall portion 17 and into the lower ends of the comb teeth 12, so that this recess 18 communicates at its upper edge with the lower ends of the teeth interspaces 13. The lower wall 16 has along its front edge a lip 20 which projects upwardly, and the laterally extending wall portion 17 has a shelf 21 projecting downwardly therefrom, the front face of this shelf 21 being offset inwardly from the plane defined by the external front face of the body 10. The edge walls 15 are likewise provided with shoulders 22 offset inwardly from the front face of the body 10.

A rectangular door 23 is provided to close the opening defined by the front portion of the recess 18. This door 23 has a downwardly directed and inwardly offset lip 24 on its lower edge to extend under the lip 20 which is formed on the bottom wall 16 of the body 10. When the door 23 is in closed position as shown in full lines in the drawings, the lateral and upper edges 25 and 26 thereof rest respectively against the shoulders 22 of the edge walls 15 and the shelf 21 of the wall portion 17. The door 23 is of such size with relation to the opening of the body into which it fits that when it is moved from the opened position indicated by dotted lines 23' of Fig. 3, into closing position, it closes with a snap action and is thereafter frictionally held in closed position. The wall portion 17 has therein a thumbnail depression 30 and the upper edge 26 of the door 23 has a lip 31 adapted to be engaged by the thumbnail whereby the door 23 may be pulled into opened position.

The door 23 has a vertical slot 32 in which a member 33 is slidable, this member 33 having on its outer end a knob 34 which lies close to the outer face of the door 23, and having connected to its inner end a holder 36 which extends laterally from one side to the other of the recess 18. This holder 36 has therein an upwardly spaced channel 37 to receive the lower edge of a thin rectangular body or cake 40 of the substance or composition which is to be applied to the hair by use of the comb 11.

In Fig. 3 the holder 36 is shown in raised position so that the upper edge 41 of the thin body 40 will extend into the comb teeth interspaces 13 and will be, therefore, exposed in the lower ends of the interspaces 13 for contact with the hair when it is combed by use of the comb 11. The upward movement of the body 40 in the recess 18, which constitutes a substantially closed cavity when the door 23 is in closed position, is accomplished by upward force manually applied to the knob 34.

Although the invention is adapted for application of various treatment to the hair, it has special utility as a simple means of applying oleaginous substances to the hair as a matter of ordinary toilet procedure, or under circumstances where the use of ordinary hair oils is not convenient. For example, indulgence in the sport of swimming, or other sports requiring the taking of a shower thereafter, often results in loss of oil from the hair so that it becomes stiff and tends to stand up or becomes disarranged. The present applicator and its contained body or cake of oleaginous characteristics is of small size so that it may be readily carried, is comparatively unbreakable and may be quickly used at any time to apply a desired amount of material to the hair merely by running the comb 11 through the hair while applying pressure to the knob 34 so as to move the upper edge of the body 40 into the position thereof as shown in Figs. 1 to 3 inclusive.

A special feature of the invention is the forming of the oleaginous substance or substances, including a small amount of perfume, into a flat body of such hardness that it will retain its general form, but at the same time will be sufficiently soft to enable its adherence to the surfaces of the hair which pass through the interspaces 13. Also, the oleaginous constituency of the body 40 is sufficiently soft to permit it to deform or spread from beneath the inner end faces 50, Fig. 2, of the comb teeth 12 as the contact of the hair wears the upper edge of the body 40 away where it is exposed at the inner ends of the interspaces 13.

A further feature of the invention consists in making the inner ends of the teeth 12 relatively thin where they are engaged by the edge of the cake 40, as compared to the width of the interspaces 13. This may be accomplished by slenderizing the inner ends of the teeth 12 where they confront the edge portion of the cavity 18, or by making the teeth 12 slender throughout their entire length. As shown in Fig. 2, the thickness of the teeth 12 is approximately one-half the thickness of the adjacent interspaces 13. By use of this relation of the inner ends of the teeth 12 and the interspaces 13, a ready flowing of the portions of the cake 40 which engage the inner ends 50 of the teeth 12 into the interspaces 13 is accomplished by application of relatively small pressure against the knob 39 to force the cake 40 in the cavity 18 toward the comb 11.

We claim:

1. Means for applying oleaginous substances to the hair from a thin cake comprising oleaginous substance comprising: a thin hollow body having teeth along one edge thereof to form a comb, said body having a cavity therein to receive said cake, one edge portion of which communicates with the inner ends of the spaces between said teeth; and means adapted to move said cake in said cavity so that an edge thereof will be in said edge portion of said cavity and therefore will be exposed for contact with hair which passes through the inner ends of said spaces between said teeth.

2. Means for applying oleaginous substances to the hair from a thin cake comprising oleaginous substance comprising: a thin hollow body having teeth along one edge thereof to form a comb, said body having a cavity therein to receive said cake, one edge portion of which communicates with the inner ends of the spaces between said teeth, one wall of said hollow body having an opening therein; means adapted to move said cake in said cavity so that an edge thereof will be in said edge portion of said cavity and therefore will be exposed for contact with hair which passes through the inner ends of said spaces between said teeth; and means extending through said opening to the exterior of said body for operating said last named means.

3. Means for applying oleaginous substances to the hair from a thin cake comprising oleaginous substance comprising: a thin hollow body having teeth along one edge thereof to form a comb, the inner ends of said teeth having a thickness which is less than the width of the adjacent portions of the spaces between the teeth, said body having a cavity therein to receive said cake, one edge portion of which communicates with the inner ends of the spaces between said teeth; and means adapted to move said cake in said cavity so that an edge thereof will be in said edge portion of said cavity and therefore will be exposed for contact with hair in the inner ends of said teeth spaces.

4. A hair anointer for use with an oleaginous cake of the character described, comprising: a hollow body having a recess to movably receive said cake; a comb formed along an edge of said hollow body, the spaces between the teeth of the comb intersecting the edge portion of said cavity so that when the cake is moved within the cavity toward the comb an edge portion thereof will be exposed at the inner ends of said teeth; and means adapted to move said cake in said cavity toward said comb.

5. A hair anointer for use with an oleaginous cake of the character described, comprising: a hollow body having a recess to receive said cake; a comb formed along an edge of said hollow body, the spaces between the teeth of the comb intersecting the edge portion of said cavity so that when the cake is moved within the cavity toward the comb an edge portion thereof will be exposed in the inner ends of said spaces; and means for moving said cake in said cavity toward said comb, said last-named means including a part exposed externally of said body for manual engagement whereby pressure may be applied to force the cake into engagement with the inner ends of the comb teeth.

6. A hair anointer for use with an oleaginous cake of the character described, comprising: a hollow body having a recess to receive said cake; and a comb formed along an edge of said hollow body, the spaces between the teeth of the comb intersecting the edge portion of said cavity so that when the cake is moved within the cavity toward

the comb an edge portion thereof will be exposed in the inner ends of said spaces, the inner ends of the comb teeth having a thickness lengthwise of the comb which is less than the width of the adjacent portions of the spaces between the teeth.

7. A hair anointer for use with an oleaginous cake of the character described, comprising: a hollow body having a recess to receive said cake; a comb formed along an edge of said hollow body, the spaces between the teeth of the comb intersecting the edge portion of said cavity so that when the cake is moved within the cavity toward the comb an edge portion thereof will be exposed in the inner ends of said spaces, the inner ends of the comb teeth having a thickness which is less than the width of the adjacent portions of the spaces between the teeth; and means for moving said cake in said cavity toward said comb, said last-named means including a part exposed externally of said body for manual engagement whereby pressure may be applied to force the cake into engagement with the inner ends of the comb teeth.

8. A hair anointer for use with an oleaginous cake of the character described, comprising: a hollow body having a recess to receive said cake; a comb formed along an edge of said hollow body, the spaces between the teeth of the comb intersecting the edge portion of said cavity so that when the cake is moved within the cavity toward the comb an edge portion thereof will be exposed in the inner ends of said spaces, said hollow body being of thin form and having one wall thereof removable so as to provide access to said cavity, said wall having a slot therein; a cake holder in said cavity for receiving the edge of a cake opposite to said comb; and means extending through said slot for manual engagement whereby said holder may be moved so as to move said cake in said cavity.

9. A hair anointer for use with an oleaginous cake of the character described, comprising: a hollow body having a recess to receive said cake; a comb formed along an edge of said hollow body, the spaces between the teeth of the comb intersecting the edge portion of said cavity so that when the cake is moved within the cavity toward the comb an edge portion thereof will be exposed in the inner ends of said spaces; the inner ends of the comb teeth having a thickness which is less than the width of the adjacent portions of the spaces between the teeth, said hollow body being of thin form and having one wall thereof removable so as to provide access to said cavity, said wall having a slot therein; a cake holder in said cavity for receiving the edge of a cake opposite to said comb; and means extending through said slot for manual engagement whereby said holder may be moved so as to move said cake in said cavity.

10. Means for applying oleaginous substance from a cake thereof to the hair, comprising: a hollow body having teeth at one extremity thereof to form a comb, said body having a cavity therein with an opening at the inner ends of said teeth; a holder for said cake movable in said cavity toward said opening; and means adapted to move said holder in said cavity so as to move said cake toward said opening and expose a portion of said cake at the inner ends of said teeth for contact with hair which moves through said teeth.

11. Means for applying oleaginous substance from a cake thereof to the hair, comprising: a hollow body having teeth at one extremity thereof to form a comb, said body having a cavity therein with an opening at the inner ends of said teeth; a holder for said cake movable in said cavity toward said opening; and operating means having a part engageable on the exterior of said hollow body and a part extending in said cavity to engage said holder, said operating means being adapted to move said holder in said cavity so as to move said cake toward said opening and expose a portion of said cake at the inner ends of said teeth for contact with hair which moves through said teeth.

MARION W. GIDDINGS.
SUPH HIKELL.

REFERENCES CITED

The following references are of record in the file of this patent:

UNITED STATES PATENTS

Number	Name	Date
1,833,293	Laguionie	Nov. 24, 1931
2,000,456	Schifter	May 7, 1935