

DESCRIPTION

TITLE OF INVENTION: HAIR COSMETIC AGENT APPLICATOR

CROSS-REFERENCE TO RELATED APPLICATIONS

[0001]

The present international application claims priorities to Japanese Patent Application No. 2019-200111 filed to the Japan Patent Office on November 1, 2019 and Japanese Patent Application No. 2019-200112 filed to the Japan Patent Office on November 1, 2019, and the entire disclosure of Japanese Patent Application No. 2019-200111 and Japanese Patent Application No. 2019-200112 are incorporated herein by reference.

TECHNICAL FIELD

[0002]

The present disclosure relates to a hair cosmetic application tool for applying a hair cosmetic.

BACKGROUND ART

[0003]

There is an application tool for applying a hair cosmetic such as a hair dye, a hair color, a bleaching agent, or a permanent wave agent to hair. For improving the performance of applying the hair cosmetic to hair, Patent Literatures 1 and 2 below describe, for example, an application tool configured such that a mini brush portion used for applying a hair cosmetic to a small area of hair is provided at a tip end portion of the application tool in addition to a main application portion. Moreover, Patent

Literature 3 below describes an application tool configured such that an imaginary plane defined by a brush tip of a dense hair body is inclined with respect to an imaginary plane defined by a brush tip of a brush body, and describes that a hair cosmetic can be easily applied to, e.g., a hairline by means of the dense hair body.

[0004]

Further, Patent Literature 4 below describes an application tool provided with a slicing stick capable of picking up part of hair for slicing, i.e., division into blocks, for example.

CITATION LIST

PATENT LITERATURE

[0005]

PATENT LITERATURE 1: JP-A-2017-70625

PATENT LITERATURE 2: JP-A-2017-70746

PATENT LITERATURE 3: JP-UM-A-6-15530

PATENT LITERATURE 4: JP-A-2018-102724

SUMMARY OF THE INVENTION

PROBLEMS TO BE SOLVED BY THE INVENTION

[0006]

The hair cosmetic applied to hair by means of the above-described application tool may include, for example, one directly discharged to an application tool from a container housing the hair cosmetic, as typified by, e.g., a two-component type oxidation hair dye discharged from a so-called double aerosol container. Other hair cosmetics may include a hair cosmetic in the form of viscous fluid such as a cream form

or a gel form, the hair cosmetic being housed in a tube and being discharged once into another container such as a tray from the tube and subsequently, for example, picked up by the application tool and applied to hair with placed on the application tool.

[0007]

As described above, the application tool described in Patent Literature 4 is provided with the slicing stick for slicing. In the case of applying the hair cosmetic to hair by means of the application tool provided with the slicing stick, the hair cosmetic is normally taken out to another container in advance. Then, after slicing with the slicing stick of the application tool held with one hand, the picked-up hair is held with the other hand which does not hold the application tool while a mixture in another container is picked up by a mini brush portion of the application tool. The picked-up mixture is applied to the hair.

[0008]

As described above, it is normally assumed that the application tool provided with the slicing stick is used for applying the latter type of hair cosmetic.

[0009]

On the other hand, the application tools described in Patent Literatures 1 to 3 are used for applying the hair cosmetic directly discharged to the application tool from the container. However, the application tool used for applying such a type of hair cosmetic does not employ a configuration allowing slicing. This may be because of the following reasons. That is, for directly discharging the hair cosmetic to the application tool from the container, the application tool needs to be held with one hand, and the hair cosmetic needs to be discharged to the application tool from the container with the other hand. However, for slicing, picked-up hair needs to be held at least with one hand as described above. In this state, at least one hand cannot be used freely, and

for this reason, the process, which needs both hands, of discharging the hair cosmetic to the application tool from the container as described above cannot be performed.

[0010]

One aspect of the present disclosure provides, as an application tool used for applying a hair cosmetic directly discharged to the application tool from a container, a new application tool which can achieve both slicing and direct discharging of a hair cosmetic to the application tool from a container.

[0011]

The application tool described in Patent Literature 4 above includes only one mini brush as an application portion for applying the hair cosmetic. For improvement in the performance of applying the hair cosmetic to hair, the application tool preferably includes, as described in Patent Literatures 1 to 3 above, a main application portion (hereinafter also referred to as a “first application portion”) and an additional application portion (hereinafter also referred to as a “second application portion”) for applying the hair cosmetic to a small area of hair.

[0012]

In the application tools described in Patent Literatures 1 and 2, a brush body as the first application portion is provided at the side of the application tool, and the tips of brush teeth of the brush body faces the side of the application tool. On the other hand, the mini brush portion as the second application portion is provided at the tip end of the application tool, and the tip of a hair bundle of the mini brush portion faces the tip end side of the application tool. In this case, every time switching is made between application with the first application portion and application with the second application portion, the orientation of the application tool needs to be greatly changed such that each application portion faces hair. For this reason, an arm easily gets tired while the

hair cosmetic is applied using the application tool. For greatly changing the orientation of the application tool, a user changes the way to hold the hair cosmetic application tool or a hand holding the hair cosmetic application tool in some cases. In this case, there is a probability that the hair cosmetic application tool is accidentally dropped.

[0013]

In the application tool described in Patent Literature 3, the imaginary plane defined by the brush tip of the dense hair body as the second application portion is inclined with respect to the imaginary plane defined by the brush tip of the brush body as the first application portion. Thus, switching can be made between application with the first application portion and application with the second application portion merely in such a manner that the angle of the application tool is slightly inclined.

[0014]

However, in the application tool described in Patent Literature 3, a handling direction in the case of application with the second application portion is not taken into consideration. For example, it is assumed that an arm easily gets tired even in the case of changing the handling direction in every switching between application with the first application portion and application with the second application portion.

[0015]

One aspect of the present disclosure provides, as a hair cosmetic application tool having multiple application portions, an application tool configured so that arm tiredness due to switching in application between multiple application portions can be reduced.

SOLUTION TO THE PROBLEMS

[0016]

One aspect of the present disclosure is a hair cosmetic application tool, and the hair cosmetic application tool includes a support portion, a comb portion, a slicing stick, and a brush portion. The comb portion has multiple comb teeth standing on the support portion. The slicing stick is provided on a tip end side of the hair cosmetic application tool with respect to the comb portion on a comb portion side of the support portion, and extends from the support portion. The brush portion is provided on the opposite side of the support portion from the comb portion and the slicing stick, and has multiple brush tooth lines in each of which multiple brush teeth are arranged. According to this configuration, even in the case of using the hair cosmetic application tool for applying a hair cosmetic directly discharged to the application tool from a container, both slicing and direct discharging of the hair cosmetic to the application tool from the container can be achieved.

[0017]

In one aspect of the present disclosure, the multiple brush teeth at the brush portion may have the greatest height in an outermost brush tooth line in a direction in which the brush tooth lines are arranged. Moreover, in one aspect of the present disclosure, the multiple brush teeth in the outermost brush tooth line may stand so as to be inclined to an outside of the brush portion in the direction in which the brush tooth lines are arranged. According to this configuration, the hair cosmetic can be guided to a region inside the outermost brush tooth line at the brush portion, and can be stably held.

[0018]

In one aspect of the present disclosure, among the multiple brush tooth lines of the brush portion, at least one brush tooth line and a brush tooth line adjacent to the at

least one brush tooth line may be arranged such that positions of the multiple brush teeth along the direction in which the brush teeth are arranged are shifted from each other. According to this configuration, the performance of applying the hair cosmetic to hair can be improved.

[0019]

One aspect of the present disclosure may further include, in a case where the brush portion is a first brush portion, a second brush portion provided on the tip end side of the hair cosmetic application tool with respect to the first brush portion on the opposite side of the support portion from the comb portion and the slicing stick and having multiple brush tooth lines in each of which multiple brush teeth are arranged. According to this configuration, the hair cosmetic can be also stably held on the second brush portion.

[0020]

In one aspect of the present disclosure, tips of the multiple brush teeth at the second brush portion may be positioned on a side closer to the comb portion and the slicing stick with respect to a plane passing through a tip of a tallest one of the multiple brush teeth at the first brush portion. According to this configuration, switching can be easily made between application with the first brush portion and application with the second brush portion.

[0021]

In one aspect of the present disclosure, the multiple brush teeth of the brush tooth lines at the first brush portion may be arranged next to each other along a direction from a tip end to a tail end of the hair cosmetic application tool, and the multiple brush teeth of the brush tooth lines at the second brush portion may be arranged next to each other in the direction from the tip end to the tail end of the hair cosmetic application

tool. According to this configuration, an arm is less likely to get tired even upon switching between application with the first brush portion and application with the second brush portion.

[0022]

In one aspect of the present disclosure, among the multiple brush tooth lines of the second brush portion, at least one brush tooth line and a brush tooth line adjacent to the at least one brush tooth line may be arranged such that the positions of the multiple brush teeth along the direction in which the brush teeth are arranged are shifted from each other. According to this configuration, the performance of applying the hair cosmetic to hair can be improved.

[0023]

In one aspect of the present disclosure, a number of brush tooth lines of the second brush portion may be smaller than a number of brush tooth lines of the first brush portion. According to this configuration, the hair cosmetic applied to hair is less likely to be scraped in the case of applying the hair cosmetic by means of the second brush portion, and a proper amount of hair cosmetic can be applied even to a small area such as a hair root or a hairline.

[0024]

One aspect of the present disclosure is a hair cosmetic application tool, and the hair cosmetic application tool includes a support portion, a first brush portion, and a second brush portion. The first brush portion is provided at the support portion, and has multiple brush tooth lines in each of which multiple brush teeth are arranged. The second brush portion is provided on a tip end side of the hair cosmetic application tool with respect to the first brush portion on a side, on which the first brush portion is provided, of the support portion, and has multiple brush tooth lines in each of which

multiple brush teeth are arranged. The multiple brush teeth of the brush tooth lines at the first brush portion are arranged next to each other along a direction from a tip end to a tail end of the hair cosmetic application tool, and the multiple brush teeth of the brush tooth lines at the second brush portion are arranged next to each other in the direction from the tip end to the tail end of the hair cosmetic application tool. According to this configuration, an arm is less likely to get tired even upon switching between application with the first brush portion and application with the second brush portion.

[0025]

In one aspect of the present disclosure, tips of the multiple brush teeth at the second brush portion may be positioned on a support portion side with respect to a plane passing through a tip of a tallest one of the multiple brush teeth at the first brush portion. According to this configuration, switching can be easily made between application with the first brush portion and application with the second brush portion.

[0026]

In one aspect of the present disclosure, among the multiple brush tooth lines of the first brush portion, at least one brush tooth line and a brush tooth line adjacent to the at least one brush tooth line may be arranged such that positions of the multiple brush teeth along a direction in which the brush teeth are arranged are shifted from each other. According to this configuration, the performance of applying the hair cosmetic to hair can be improved.

[0027]

In one aspect of the present disclosure, among the multiple brush tooth lines of the second brush portion, at least one brush tooth line and a brush tooth line adjacent to the at least one brush tooth line may be arranged such that positions of the multiple brush teeth along the direction in which the brush teeth are arranged are shifted from

each other. According to this configuration, the performance of applying the hair cosmetic to hair can be improved.

[0028]

In one aspect of the present disclosure, the multiple brush teeth at the first brush portion may have a greatest height in an outermost brush tooth line in a direction in which the brush tooth lines are arranged. Moreover, in one aspect of the present disclosure, the multiple brush teeth in the outermost brush tooth line may stand so as to be inclined to an outside of the first brush portion in the direction in which the brush tooth lines are arranged. According to this configuration, the hair cosmetic can be guided to a region inside the outermost brush tooth line at the first brush portion, and can be stably held.

[0029]

In one aspect of the present disclosure, a number of brush tooth lines of the second brush portion may be smaller than a number of brush tooth lines of the first brush portion. According to this configuration, the hair cosmetic applied to hair is less likely to be scraped in the case of applying the hair cosmetic by means of the second brush portion, and a proper amount of hair cosmetic can be applied even to a small area such as a hair root or a hairline.

BRIEF DESCRIPTION OF DRAWINGS

[0030]

Fig. 1 is an entire view of a hair cosmetic application tool;

Fig. 2 is a partially-enlarged view of a tip end side of the hair cosmetic application tool shown in Fig. 1;

Fig. 3A is a view of a first brush portion of the hair cosmetic application tool of

Fig. 1 from the side of the hair cosmetic application tool, and Fig. 3B is a sectional view of the first brush portion of the hair cosmetic application tool of Fig. 1 along an IIIB-IIIB line shown in Fig. 3A;

Fig. 4A is a view of a second brush portion of the hair cosmetic application tool of Fig. 1 from the side of the hair cosmetic application tool, and Fig. 4B is a sectional view of the second brush portion of the hair cosmetic application tool of Fig. 1 along an IVB-IVB line shown in Fig. 4A;

Fig. 5 is a view showing a second brush portion of a hair cosmetic application tool of a comparative example;

Fig. 6 is a view showing an example where linear anti-slip patterns are provided;

Fig. 7 is a view showing an example where holes are provided as an anti-slip pattern;

Fig. 8 is a view showing an example where small protrusions are provided as an anti-slip pattern;

Fig. 9 is a view showing an example where V-shaped anti-slip patterns are provided; and

Fig. 10 is a view showing an example where a grid-shaped anti-slip pattern is provided.

LIST OF REFERENCE NUMERALS

[0031]

- | | |
|---|--------------------------------|
| 1 | Hair Cosmetic Application Tool |
| 2 | Grip Portion |
| 3 | Support Portion |

4	Comb Portion
5	Slicing Stick
6	First Brush Portion
7	Second Brush Portion
41	Comb Tooth
61	Brush Tooth Line
62	Base
63	Brush Tooth
71	Brush Tooth Line
72	Base
73	Brush Tooth
81	First Tip plane
82	Second Tip plane

DESCRIPTION OF THE EMBODIMENTS

[0032]

Hereinafter, an exemplary embodiment of the present disclosure will be described with reference to the drawings.

[0033]

[1. Configuration]

A hair cosmetic application tool 1 shown in Fig. 1 includes a grip portion 2, a support portion 3, a comb portion 4, a slicing stick 5, a first brush portion 6, and a second brush portion 7. The hair cosmetic application tool 1 is, for example, preferably a molded product made of plastic such as olefin-based resin (e.g., polyethylene resin or polypropylene resin) or ABS resin, but part or the entirety of the

hair cosmetic application tool 1 may be made of, e.g., metal or wood.

[0034]

The grip portion 2 is a portion to be gripped with a hand when a hair cosmetic is applied to hair by means of the hair cosmetic application tool 1. The grip portion 2 is a flat plate-shaped portion elongated in a direction along a direction from a tip end toward a tail end of the hair cosmetic application tool 1, i.e., an X-direction shown in Fig. 1. Note that the tail end of the hair cosmetic application tool 1 as described herein indicates an end on a grip portion 2 side of the hair cosmetic application tool 1, i.e., an end on the side closer to an arm when the hair cosmetic application tool 1 is gripped with a hand. Moreover, the tip end of the hair cosmetic application tool 1 indicates an end on the opposite side of the tail end. Further, the direction along the X-direction as described herein is not necessarily precisely parallel with the X-direction, and may be substantially along the X-direction. Narrow portions and wide portions are alternately provided along the X-direction at the grip portion 2 such that a hand easily fits the grip portion 2 when gripping the grip portion 2.

[0035]

The support portion 3 is a portion supporting the comb portion 4, the slicing stick 5, the first brush portion 6, and the second brush portion 7. The support portion 3 is a flat plate-shaped portion extending from the grip portion 2 and elongated in the direction along the X-direction. The support portion 3 has such a shape that the width thereof gradually decreases from the tail end to the tip end of the hair cosmetic application tool 1.

[0036]

The comb portion 4 and the slicing stick 5 are provided at one end of the support portion 3 in a width direction thereof. Moreover, the first brush portion 6 and

the second brush portion 7 are provided at the other end of the support portion 3 in the width direction thereof. Hereinafter, the width direction of the hair cosmetic application tool 1 will be referred to as a Y-direction. In other words, the Y-direction is a direction from the side closer to the comb portion 4 and the slicing stick 5 toward the side closer to the first brush portion 6 and the second brush portion 7, and is also a direction perpendicular to the X-direction.

[0037]

As shown in Fig. 2, the comb portion 4 has multiple comb teeth 41 standing on the support portion 3. Specifically, the multiple comb teeth 41 stand perpendicularly to the support portion 3 along the Y-direction, and are arranged next to each other along the X-direction. The comb portion 4 has a tip-end-side portion 42 as a portion on the tip end side of the hair cosmetic application tool 1 and a tail-end-side portion 43 as a portion on the tail end side of the hair cosmetic application tool 1. The tip-end-side portion 42 forms a large portion of the comb portion 4. At the tip-end-side portion 42, the height of the standing comb tooth 41 increases toward the tip end side and the tail end side. In other words, a line connecting the tips of the comb teeth 41 standing at the tip-end-side portion 42 is in an arc shape raised to a support portion 3 side at the center. The tip-end-side portion 42 has such a shape because the comb portion 4 can favorably fit the head of a person basically having an outer shape close to a spherical shape. Note that the height as described herein indicates a height with respect to a side surface 31 of the support portion 3 on the side on which the comb teeth 41 stand. Moreover, at the tail-end-side portion 43, the height of the standing comb tooth 41 decreases from the tip end side toward the tail end side.

[0038]

The slicing stick 5 is a portion for slicing. The slicing stick 5 is provided on

the tip end side with respect to the comb portion 4 on a comb portion 4 side of the support portion 3, and the tip of the slicing stick 5 extends from the support portion 3 in a direction slightly inclined to the tip end side with respect to a direction in which the comb teeth 41 extend, i.e., a Y1-direction shown in Fig. 2. The slicing stick 5 has a stick shape thinned toward the tip thereof. For reducing contact of the slicing stick 5 with hair when the hair is combed using the comb portion 4, the height of the tip of the slicing stick 5 is lower than the tip of the tallest comb tooth 41.

[0039]

The first brush portion 6 is provided on the opposite side of the support portion 3 from the comb portion 4 and the slicing stick 5. The first brush portion 6 has multiple brush tooth lines 61 and a base 62 supporting the brush tooth lines 61. The brush tooth line 61 has multiple brush teeth 63 arranged at predetermined pitches along the X-direction. Hereinafter, a direction in which the brush teeth 63 are arranged in each brush tooth line 61 at the first brush portion 6 will be referred to as an X1-direction. The base 62 is a flat plate-shaped portion. Note that the brush as described herein indicates, unlike a mini brush, one configured such that relatively-hard stick-shaped brush teeth are two-dimensionally arranged. On the other hand, the mini brush generally indicates one configured such that relatively-soft hair bundles are arranged in line. The brush can stably hold the hair cosmetic, for example, on the brush tooth lines or among the brush tooth lines.

[0040]

In the present embodiment, the first brush portion 6 has five brush tooth lines 61a to 61e as shown in Figs. 3A and 3B. The brush tooth lines 61a to 61e are arranged such that the positions of the brush teeth 63 along the X1-direction are shifted from each other in adjacent ones of the brush tooth lines 61. For example, the positions of brush

teeth 63a of the brush tooth line 61a in the X1-direction and the positions of brush teeth 63b of the brush tooth line 61b adjacent to the brush tooth line 61a in the X1-direction are shifted from each other. Specifically, the brush tooth lines 61a to 61e are arrayed in a zigzag pattern.

[0041]

The height of the brush tooth 63 is constant in each brush tooth line 61. Moreover, as shown in Fig. 3B, the height of the brush tooth 63 increases to the outside and decreases to the inside in a direction in which the multiple brush tooth lines 61 are arranged, i.e., a Z1-direction shown in Fig. 3B. That is, the brush teeth 63 of the outermost brush tooth lines 61a, 61e are tallest, the brush teeth 63 of the brush tooth lines 61b, 61d are next tallest, and the brush teeth 63 of the innermost, i.e., center, brush tooth line 61c are shortest. Note that the height of the brush tooth 63 as described herein indicates a height with respect to a flat surface of the base 62 on the side on which the brush teeth 63 stand.

[0042]

The brush teeth 63 of the outermost brush tooth lines 61a, 61e of the brush tooth lines 61a to 61e stand so as to be inclined to the outside of the first brush portion 6 in the Z1-direction. On the other hand, the brush teeth 63 of the three inner brush tooth lines 61b to 61d stand perpendicularly to the base 62.

[0043]

As shown in Fig. 2, the second brush portion 7 is provided on the tip end side with respect to the first brush portion 6 on the opposite side of the support portion 3 from the comb portion 4 and the slicing stick 5.

[0044]

The second brush portion 7 has multiple brush tooth lines 71 and a base 72

supporting the brush tooth lines 71. The brush tooth line 71 has multiple brush teeth 73 arranged at predetermined pitches along the X-direction. Hereinafter, a direction in which the brush teeth 73 are arranged in each brush tooth line 71 at the second brush portion 7 will be referred to as an X2-direction.

[0045]

The base 72 is provided to extend from the base 62 of the first brush portion 6 toward the tip end side of the hair cosmetic application tool 1. Moreover, the base 72 is provided so as to be inclined to the side on which the comb portion 4 and the slicing stick 5 are provided with respect to the base 62 of the first brush portion 6. The base 72 is a flat plate-shaped portion as in the base 62 of the first brush portion 6. The length of the base 72 in the X2-direction is shorter than the length of the base 62 in the X1-direction.

[0046]

As shown in Figs. 4A and 4B, the second brush portion 7 has four brush tooth lines 71a to 71d. The number of brush tooth lines 71 is smaller than the number of brush tooth lines 61 provided on the base 62 of the first brush portion 6. Moreover, the number of brush teeth 73 in each brush tooth line 71 is also smaller than the number of brush teeth 63 in each brush tooth line 61 at the first brush portion 6.

[0047]

The outermost brush tooth lines 71a, 71d and the brush tooth lines 71b, 71c adjacent to the brush tooth lines 71a, 71d respectively are arranged such that the positions of the brush teeth 73 along the X2-direction are shifted from each other. Specifically, the brush tooth line 71a and the brush tooth line 71b are arrayed in a zigzag pattern, and the brush tooth line 71c and the brush tooth line 71d are arrayed in a zigzag pattern.

[0048]

The height of the brush tooth 73 is constant in each brush tooth line 71. Moreover, as shown in Fig. 4B, the height of the brush tooth 73 increases to the outside and decreases to the inside in a direction in which the multiple brush tooth lines 71 are arranged, i.e., a Z2-direction shown in Fig. 4B. That is, the brush teeth 73 of the outermost brush tooth lines 71a, 71d are tallest, and the brush teeth 73 of the inner, i.e., center, two brush tooth lines 71b, 71c are shortest. The Z2-direction as described herein indicates the same direction as the direction (the Z1-direction) in which the brush tooth lines 61 are arranged at the first brush portion 6. Note that the height of the brush tooth 73 as described herein indicates a height with respect to a flat surface of the base 72 on the side on which the brush teeth 73 stand.

[0049]

As shown in Fig. 2, any of the brush tooth lines 71a to 71d stands so as to be inclined slightly to the tip end side of the hair cosmetic application tool 1 with respect to a direction perpendicular to the base 72. In this case, at the second brush portion 7, the tips of the brush teeth 73 contact a later-described second tip plane 82 so as to be inclined to the tip end side of the hair cosmetic application tool 1. Thus, the entirety of the second brush portion 7 is in a shape pointed to the tip end side of the hair cosmetic application tool 1, and therefore, as compared to a case where the brush teeth 73 stand in the direction perpendicular to the base 72, the hair cosmetic is easily applied particularly to a small area such as a hair root or a hairline by means of, in particular, a region of the second brush portion 7 on the tip end side of the hair cosmetic application tool 1. As a result, a user tends to use the region of the second brush portion 7 on the tip end side of the hair cosmetic application tool 1 when applying the hair cosmetic to hair by means of the second brush portion 7, and therefore, the first brush portion 6 is

much less likely to contact hair when the hair cosmetic is applied to the hair by means of the second brush portion 7.

[0050]

Note that any of the brush tooth 63 of the first brush portion 6 and the brush tooth 73 of the second brush portion 7 is, at the tip thereof, in a rounded shape. For increasing the area of contact with the hair cosmetic to be placed on the first brush portion 6 and the second brush portion 7, such a rounded portion (hereinafter referred to as a “fillet portion”) is preferably formed relatively large. For example, the percentage of the fillet portion in the length of each of the brush teeth 63, 73 is preferably equal to or higher than 25% and equal to or lower than 50% and more preferably equal to or higher than 30% and equal to or lower than 40%

[0051]

A plane passing through the tips of the brush teeth 63 of the tallest brush tooth lines 61a, 61e at the first brush portion 6 is taken as a first tip plane 81. Moreover, a plane passing through the tips of the brush teeth 73 of the tallest brush tooth lines 71a, 71d at the second brush portion 7 is taken as the second tip plane 82. In this case, the tips of all of the brush teeth 73 forming the second brush portion 7 are positioned on the side closer to the comb portion 4 and the slicing stick 5, i.e., on the support portion 3 side, in the Y-direction with respect to the first tip plane 81. Moreover, the tips of the multiple brush teeth 63 at the first brush portion 6 are also positioned on the side closer to the comb portion 4 and the slicing stick 5, i.e., on the support portion 3 side, in the Y-direction with respect to the second tip plane 82.

[0052]

As shown in Fig. 2, an angle $\theta 1$ between the first tip plane 81 and the second tip plane 82 is set as necessary such that the second brush portion 7 is less likely to

contact hair when the hair cosmetic is applied to the hair by means of the first brush portion 6 and the first brush portion 6 is less likely to contact hair when the hair cosmetic is applied to the hair by means of the second brush portion 7. For example, the angle θ_1 is preferably equal to or greater than 5 degrees and equal to or less than 30 degrees and more preferably equal to or greater than 10 degrees and equal to or less than 25 degrees.

[0053]

An angle θ_2 between the comb tooth 41 and the slicing stick 5 is set as necessary such that slicing with the slicing stick 5 is easily performed. Note that the angle θ_2 is specifically an angle between the direction in which the slicing stick 5 extends, i.e., an axial direction of the slicing stick 5, and the Y1-direction in which the comb tooth 41 extends, as shown in Fig. 2. The angle θ_2 is preferably great to a certain extent such that the slicing stick 5 is less likely to contact the skin when hair is combed using the comb portion 4 and the comb portion 4 is less likely to contact hair when slicing is performed using the slicing stick 5. Specifically, the angle θ_2 is preferably equal to or greater than 5 degrees and more preferably equal to or greater than 10 degrees. In a case where the angle θ_2 is, for example, 90 degrees, the orientation of the hair cosmetic application tool 1 needs to be significantly changed such that the tip of the slicing stick 5 contacts the head when slicing is performed using the slicing stick 5, and this leads to degradation of handleability. For this reason, the angle θ_2 is preferably small to a certain extent. Specifically, the angle θ_2 is preferably equal to or less than 60 degrees, more preferably equal to or less than 45 degrees, and much more preferably equal to or less than 30 degrees. If the angle θ_2 falls within such a range, the size of the hair cosmetic application tool 1 in the X-direction is short, and the hair cosmetic application tool 1 is compactly formed. Thus, the hair cosmetic

application tool 1 is easily packed in a container box upon packing.

[0054]

Further, the height of the slicing stick 5 is also set as necessary such that slicing with the slicing stick 5 is easily performed. Note that the height of the slicing stick 5 as described herein indicates a height in the Y1-direction with respect to the side surface 31 of the support portion 3 on the side on which the comb teeth 41 stand. The height of the slicing stick 5 is preferably tall to a certain extent such that the comb portion 4 is less likely to contact hair and slicing is easily performed when slicing is performed using the slicing stick 5. Specifically, the height of the slicing stick 5 is preferably equal to or higher than 50%, more preferably equal to or higher than 70%, and much more preferably equal to or higher than 80% when the height of the comb tooth 41a, which is positioned closest to a slicing stick 5 side, in the Y1-direction is 100%. Moreover, the height of the slicing stick 5 is preferably short to a certain extent such that the slicing stick 5 is less likely to contact the skin when hair is combed using the comb portion 4. Specifically, the height of the slicing stick 5 is preferably equal to or lower than 100% of the height of the comb tooth 41a in the Y1-direction and more preferably equal to or lower than 95%.

[0055]

[2. Method for Using Hair Cosmetic Application Tool]

Hereinafter, one example of a use method in a case where a two-component type oxidation hair dye discharged from a double aerosol container is applied to hair by means of the hair cosmetic application tool 1 having the above-described configuration will be described.

[0056]

First, the user grips the grip portion 2 of the hair cosmetic application tool 1

with one hand, and holds the aerosol container housing the hair cosmetic with the other hand. Then, the user discharges the hair cosmetic to the first brush portion 6 from the aerosol container with the first brush portion 6 of the hair cosmetic application tool 1 facing up. Note that at this point, the user may also discharge the hair cosmetic to the second brush portion 7.

[0057]

Next, the user disengages one's hand from the aerosol container. Then, the user moves the hair cosmetic application tool 1 such that the tip of the slicing stick 5 faces hair in a state in which the hair cosmetic is placed on the first brush portion 6, and slices the hair by means of the slicing stick 5. At this point, the first brush portion 6 can stably hold the hair cosmetic because the first brush portion 6 is not the mini brush but the brush as described above. Moreover, since the first brush portion 6 is on the opposite side of the slicing stick 5, the first brush portion 6 can be kept facing up, and slicing can be performed with the hair cosmetic being held on the first brush portion 6.

[0058]

Next, the user holds the picked-up hair with a hand which does not grip the hair cosmetic application tool 1 while flipping the hair cosmetic application tool 1 such that the first brush portion 6 faces the hair. Then, the user handles the hair cosmetic application tool 1 in the Z1-direction such that the hair is combed with the first brush portion 6, and in this manner, the hair cosmetic held on the first brush portion 6 is applied to the hair.

[0059]

Thereafter, the user flips, as necessary, the hair cosmetic application tool 1 from the state in which the first brush portion 6 faces the hair, and in this manner, the hair can be combed using the comb portion 4. Moreover, the user picks up the hair

cosmetic applied to the hair by means of the second brush portion 7 and handles the hair cosmetic application tool 1 in the Z2-direction, as necessary. In this manner, the hair cosmetic picked up by the second brush portion 7 can be applied to the hair. At this point, the second brush portion 7 can be used merely in such a manner that from the state in which the first brush portion 6 faces the hair, the hair cosmetic application tool 1 is inclined such that the second brush portion 7 faces the hair, for example. Note that in a case where the hair cosmetic is also placed on the second brush portion 7 from the aerosol container, the hair cosmetic can be also applied using the second brush portion 7.

[0060]

According to this use method, in the case of the hair cosmetic directly discharged to the hair cosmetic application tool 1 from a container such as the aerosol container, both slicing and direct discharging of the hair cosmetic to the application tool from the container can be achieved.

[0061]

Note that the method for applying the hair cosmetic to hair by means of the hair cosmetic application tool 1 is not specifically limited to the above-described method and a specific application method is, including, e.g., the number of times of application by each portion, left to the discretion of the user.

[0062]

[3. Advantageous Effects]

According to the embodiment described above in detail, the following advantageous effects are obtained.

[0063]

(3a) The hair cosmetic application tool 1 includes the first brush portion 6

provided on the opposite side of the support portion 3 from the comb portion 4 and the slicing stick 5 and having the multiple brush tooth lines 61 in each of which the multiple brush teeth 63 are arranged. In a case where the first brush portion 6 is, for example, the mini brush, the hair cosmetic easily drops from a mini brush portion even after the hair cosmetic has been discharged to the mini brush portion. However, in the above-described embodiment, the first brush portion 6 is the brush, and therefore, the hair cosmetic can be stably held when the hair cosmetic is placed on the first brush portion 6 as compared to the case of the mini brush. Thus, as described above in the use method, the hair cosmetic can be directly discharged to the hair cosmetic application tool 1, and the hair cosmetic can be applied to hair subsequently after slicing has been performed with the hair cosmetic being placed on the hair cosmetic application tool 1.

[0064]

Thus, according to the above-described hair cosmetic application tool 1, even in the case of use for the hair cosmetic directly discharged to the application tool from the container, both slicing and direct discharging of the hair cosmetic to the application tool from the container can be achieved.

[0065]

(3b) The height of the brush tooth 63 at the first brush portion 6 is the tallest in the outermost brush tooth lines 61a, 61e in the Z1-direction in which the brush tooth lines 61 are arranged. Moreover, the multiple brush teeth 63 of the outermost brush tooth lines 61a, 61e stand so as to be inclined to the outside of the first brush portion 6 in the Z1-direction in which the multiple brush tooth lines 61 are arranged.

[0066]

In some cases, the user unevenly places the hair cosmetic on an outer region of the first brush portion 6 or shallowly places the hair cosmetic on the tips of the brush

teeth 63 of the first brush portion 6 when placing the hair cosmetic on the first brush portion 6. However, in the above-described configuration, the first brush portion 6 has such a structure that the hair cosmetic easily flows toward an inner region even if the hair cosmetic is unevenly placed as described above. Thus, as compared to a case where all of the brush teeth 63 have the same height, the hair cosmetic can be guided to a region, inside the outermost brush tooth lines 61, of the first brush portion 6, and the hair cosmetic can be stably held.

[0067]

(3c) The hair cosmetic application tool 1 further includes the second brush portion 7 provided on the tip end side of the hair cosmetic application tool 1 with respect to the first brush portion 6 on the opposite side of the support portion 3 from the comb portion 4 and the slicing stick 5 and having the multiple brush tooth lines 71 in each of which the multiple brush teeth 73 are arranged. Thus, when the hair cosmetic is applied to a small area such as a hair root or a hairline by means of the second brush portion 7, the hair cosmetic can be also, as in the first brush portion 6, stably held on the second brush portion 7 as compared to a case where the second brush portion 7 is, for example, the mini brush.

[0068]

In a case where the second brush portion 7 is, for example, a dense hair body as described in Patent Literature 3 above, when the hair cosmetic is applied to hair by means of the dense hair body, the hair cosmetic applied to the hair is, in some cases, excessively scraped by the dense hair body, and for this reason, the hair cosmetic cannot be sufficiently applied. However, in the above-described embodiment, the second brush portion 7 is the brush, and therefore, the hair cosmetic placed on the second brush portion 7 can be sufficiently moved and applied to hair.

[0069]

(3d) The tips of the multiple brush teeth 73 at the second brush portion 7 are positioned on the side closer to the comb portion 4 and the slicing stick 5, i.e., the support portion 3 side, with respect to the first tip plane 81 passing through the tips of the tallest ones of the multiple brush teeth 63 at the first brush portion 6. Thus, switching can be easily made between application with the first brush portion 6 and application with the second brush portion 7 merely in such a manner that the hair cosmetic application tool 1 is, from the state in which the first brush portion 6 faces hair, inclined such that the second brush portion 7 faces the hair, for example. Moreover, the first brush portion 6 is less likely to contact hair when the hair cosmetic is applied to the hair by means of the second brush portion 7.

[0070]

(3e) The brush teeth 63 of the brush tooth lines 61 at the first brush portion 6 are arranged next to each other along the X-direction from the tip end toward the tail end of the hair cosmetic application tool 1, and the brush teeth 73 of the brush tooth lines 71 at the second brush portion 7 are arranged next to each other along the X-direction from the tip end toward the tail end of the hair cosmetic application tool 1. In other words, any of the direction X1 in which the brush teeth 63 of the multiple brush tooth lines 61 at the first brush portion 6 are arranged and the direction X2 in which the brush teeth 63 of the multiple brush tooth lines 71 at the second brush portion 7 are arranged is along the X-direction.

[0071]

As a comparative example, a hair cosmetic application tool 10 having a second brush portion 9 having a configuration shown in Fig. 5 instead of the second brush portion 7 of the hair cosmetic application tool 1 as described above is assumed. At the

second brush portion 9 shown in Fig. 5, brush teeth are arranged in a grid pattern.

[0072]

The hair cosmetic application tool 10 including the second brush portion 9 is basically designed to be handled in the X2-direction when hair is combed using the second brush portion 9. Specifically, it is designed such that the number of brush teeth 93 along a direction perpendicular to the X2-direction as a handling direction is greater than the number of brush teeth 93 along the X2-direction. With this configuration, a greater number of brush teeth 93 can contact hair and the hair can be combed at once across a broader area when the hair passes in the X2-direction than when the hair passes in the Z2-direction.

[0073]

Arrangement of brush teeth in a direction perpendicular to a designed handling direction at a brush portion of a hair cosmetic application tool as described above will be referred to as a brush tooth line. Thus, at the second brush portion 9 shown in Fig. 5, brush tooth lines 91a, 91b are along the Z2-direction as the direction perpendicular to the X2-direction as the handling direction.

[0074]

On the other hand, the handling direction of the hair cosmetic application tool 10 in the case of using a first brush portion 6 similarly included in the hair cosmetic application tool 10 is the Z1-direction as in Fig. 3A. Thus, the handling direction (the Z1-direction) in the case of using the first brush portion 6 and the handling direction (the X2-direction) in the case of using the second brush portion 9 are different from each other.

[0075]

In this case, the handling direction of the hair cosmetic application tool 10

needs to be changed in every switching between the first brush portion 6 and the second brush portion 9. Moreover, upon switching of the handling direction, a user changes the way to hold the hair cosmetic application tool 10 or a hand holding the hair cosmetic application tool 10 in some cases. In this case, there is a probability that an arm easily gets tired and the hair cosmetic application tool is accidentally dropped.

[0076]

On the other hand, in the case of the hair cosmetic application tool 1 having the above-described configuration, the handling direction (the Z1-direction) in the case of using the first brush portion 6 and the handling direction (the Z2-direction) in the case of using the second brush portion 7 are the same as each other, and therefore, the hair cosmetic application tool 1 may only be handled in the same direction (the Z1-direction, the Z2-direction) in both of the case of using the first brush portion 6 and the case of using the second brush portion 7. Thus, e.g., the necessity of switching the handling direction or switching the hair cosmetic application tool from one hand to the other hand as described above is reduced, and an arm is less likely to get tired.

[0077]

(3f) The multiple brush tooth lines 61, i.e., the brush tooth lines 61a to 61e, of the first brush portion 6 are arranged such that the positions of the brush teeth 63 along the X1-direction are shifted from each other in adjacent ones of the brush tooth lines 61. Of the multiple brush tooth lines 71 of the second brush portion 7, the brush tooth lines 71a, 71d and the brush tooth lines 71b, 71c adjacent to the brush tooth line 71a, 71d are arranged such that the positions of the brush teeth 73 along the X2-direction are shifted from each other.

[0078]

In the configuration in which at least one brush tooth line 61, 71 and the brush

tooth line 61, 71 adjacent to the at least one brush tooth line 61, 71 are respectively arranged such that the positions of the brush teeth 63, 73 respectively along the X1, X2-direction in which the multiple brush teeth are arranged are shifted from each other as described above, hair flows so as to meander and fill a gap among the brush teeth 63, 73 when the hair cosmetic application tool 1 is handled. Thus, the area of contact between the hair and the brush tooth 63 is larger as compared to a case where the brush teeth 93 forming the brush tooth lines 91a, 91b adjacent to each other are arranged in line as in, e.g., the second brush portion 9 of Fig. 5. As a result, the performance of applying the hair cosmetic to hair can be improved.

[0079]

As in (3e) above, the handling direction in the case of using the first brush portion 6 is the Z1-direction which is a direction in which hair passes while meandering through the brush teeth 63. Moreover, the handling direction in the case of using the second brush portion 7 is also the Z2-direction which is a direction in which hair passes while meandering through the brush teeth 73. That is, the handling direction (the Z1-direction) in the case of using the first brush portion 6 and the handling direction (the Z2-direction) in the case of using the second brush portion 7 are the same as each other. Thus, the hair cosmetic application tool 1 may only be handled in the same direction (the Z1-direction, the Z2-direction) in both of the case of using the first brush portion 6 and the case of using the second brush portion 7, and therefore, an arm is less likely to get tired.

[0080]

(3g) The number of brush tooth lines 71 of the second brush portion 7 is smaller than the number of brush tooth lines 61 of the first brush portion 6.

[0081]

Tendency shows that the opportunities of applying the hair cosmetic to a small area such as a hair root or a hairline are relatively fewer than the opportunities of applying the hair cosmetic to a wide area of hair. For this reason, in the case of applying the hair cosmetic to a small area of hair by means of the second brush portion 7, the hair cosmetic is preferably sufficiently applied by a fewer number of application steps as compared to the case of applying the hair cosmetic to a wide area of hair by means of the first brush portion 6.

[0082]

In the above-described configuration, the hair cosmetic applied to hair is less likely to be scraped in the case of applying the hair cosmetic by means of the second brush portion 7 than in the case of applying the hair cosmetic by means of the first brush portion 6. Thus, a proper amount of hair cosmetic can be applied even in the case of applying the hair cosmetic to a small area of hair by means of the second brush portion 7.

[0083]

(3h) Of the comb teeth 41, the comb teeth 41 standing on the tail end side of the hair cosmetic application tool 1 are formed such that the heights thereof decrease toward the tail end side of the hair cosmetic application tool 1. In a case where at least either the brush teeth 63 of the first brush portion 6 or the brush teeth 73 of the second brush portion 7 are in arrangement leading to a high performance of applying the hair cosmetic to hair as described above in (3f), resistance when hair is combed is relatively greater as compared to the case of arrangement in a grid pattern as shown in, e.g., Fig. 5. For this reason, the user needs, in some cases, relatively-great force to comb hair. In this case, when gripping a portion of the hair cosmetic application tool 1 closer to the tip end side thereof with respect to the grip portion 2, such as the vicinity of a boundary

between the grip portion 2 and the support portion 3, with a hand to handle the hair cosmetic application tool 1, the user easily applies force to the first brush portion 6 or the second brush portion 7. In this case, if it is configured such that the height of the comb tooth 41 at the tail-end-side portion 43 decreases toward the tail end side as described above, the comb teeth 41 standing at the tail-end-side portion 43 are less likely to contact a hand, and therefore, force is easily applied to the first brush portion 6 or the second brush portion 7.

[0084]

[4. Other Embodiments]

The embodiment of the present disclosure has been described above, but the present disclosure is not limited to the above-described embodiment. Needless to say, various forms may be employed.

[0085]

(4a) In the above-described embodiment, the base 62 of the first brush portion 6 and the base 72 of the second brush portion 7 are in the flat plate shape, but the shapes of the bases 62, 72 are not limited to above. For example, the bases 62, 72 may be in a curved plate shape obtained by curving of a flat plate. Specific shapes of the bases 62, 72 may include, for example, a shape raised to the support portion 3 side or the side opposite to the support portion 3 at a center region in directions respectively along the brush tooth lines 61, 71 or a center region in the Z1, Z2-directions in which the brush tooth lines 61, 71 are respectively arranged.

[0086]

The height of each of the brush teeth 63, 73 in this case is as follows. That is, a plane unambiguously defined by the tips of three or more brush teeth 63, 73 and not crossing the other brush teeth 63, 73 is assumed as a plane passing through the tips of

the tallest brush teeth 63, 73. A plane obtained after the above-described plane has been moved in parallel toward the root of each of the brush teeth 63, 73 until reaching such a position that the plane no longer crosses all of the brush teeth 63, 73 respectively is taken as a reference for the height of each of the brush teeth 63, 73.

[0087]

(4b) In the above-described embodiment, the height of the brush tooth 63 of the first brush portion 6 increases to the outside and decreases to the inside in the Z1-direction. However, the height of the brush tooth 63 of the first brush portion 6 is not limited to above. For example, all of the brush teeth 63 may have a constant height, or the outermost brush tooth lines 61 and the center brush tooth line 61 may be tallest and the other lines may be shorter. Alternatively, the brush teeth 63 in each brush tooth line 61 do not necessarily have a constant height. The same also applies to the height of the brush tooth 73 of the second brush portion 7.

[0088]

(4c) In the above-described embodiment, the brush teeth 63 of the outermost brush tooth lines 61a, 61e stand so as to be inclined to the outside of the first brush portion 6 in the Z1-direction. However, the standing direction of each brush tooth 63 forming the first brush portion 6 is not limited to above. That is, each brush tooth 63 may stand perpendicularly to the base 62, or as in the second brush portion 7, may stand so as to be inclined slightly to the tip end side of the hair cosmetic application tool 1 with respect to the direction perpendicular to the base 62, for example. Similarly, the standing direction of each brush tooth 73 at the second brush portion 7 is not limited to that described above in the embodiment.

[0089]

(4d) In the above-described embodiment, the comb teeth 41 stand

perpendicularly to the support portion 3, but may stand obliquely to the support portion 3.

[0090]

(4e) The number of brush tooth lines 61 of the first brush portion 6 and the number of brush tooth lines 71 of the second brush portion 7 are not limited to those described above in the embodiment. Moreover, in the above-described embodiment, the number of brush tooth lines 71 of the second brush portion 7 is smaller than the number of brush tooth lines 61 of the first brush portion 6, but the number of brush tooth lines 71 may be equal to or greater than the number of brush tooth lines 61.

[0091]

(4f) For example, an anti-slip pattern may be provided at the grip portion 2 so that the grip portion 2 can be easily gripped with a hand. Considering the case of gripping, e.g., a grip-portion-2-side portion of the support portion 3 with a hand, an anti-slip pattern may be also provided at the support portion 3, for example.

[0092]

The anti-slip pattern may include, for example, those shown in Figs. 6 to 10. The pattern shown in Fig. 6 is a pattern in which multiple linearly-elongated raised or recessed portions are provided. The pattern shown in Fig. 7 is a pattern provided with multiple holes. The pattern shown in Fig. 8 is a pattern in which multiple small protrusions or recessed portions are provided. The pattern shown in Fig. 9 is a pattern in which multiple V-shaped raised or recessed portions are provided. The pattern shown in Fig. 10 is a pattern in which recessed or raised portions are provided in a grid pattern. Note that the anti-slip pattern is not limited to those shown in Figs. 6 to 10 and the shapes of, for example, the recessed portion, the raised portion, and the protrusion, the position of the pattern, and the like are not limited to those shown in

Figs. 6 to 10. The anti-slip patterns shown in Figs. 6 to 10 may be used in combination.

[0093]

The grip portion 2 is not essential, and the hair cosmetic application tool 1 does not necessarily have the grip portion 2.

[0094]

(4g) The second brush portion 7 is not essential, and the hair cosmetic application tool 1 does not necessarily have the second brush portion 7.

[0095]

(4h) The hair cosmetic application tool 1 is, as described above, used suitably for the hair cosmetic directly discharged from the container to the hair cosmetic application tool 1, but is also applicable to a hair cosmetic not directly discharged to the hair cosmetic application tool 1. Moreover, the hair cosmetic application tool 1 is used suitably for the hair cosmetic discharged from the aerosol container, but the hair cosmetic applied using the hair cosmetic application tool 1 is not limited to above. For example, the hair cosmetic is not limited to one discharged from the aerosol container, and may be discharged from a pump container, a squeeze container, a tube container, or the like.

[0096]

The type of hair cosmetic is not specifically limited. The hair cosmetic may include, for example, a hair dye (an oxidation hair dye, a non-oxidation hair dye), a hair color, a bleaching agent, a dye remover, a permanent wave agent, and a hair relaxer. Moreover, the hair cosmetic may be of a single component type or a multicomponent type. Further, the dosage form of the hair cosmetic is not specifically limited, and for example, may include a cream form, a foam form, a mist form, a liquid form, an

emulsion form, a gel form, and a paste form.

[0097]

The viscosity of the hair cosmetic at 25°C is not specifically limited. The viscosity of the hair cosmetic is preferably equal to or greater than 3000 mPa·s, more preferably equal to or greater than 5000 mPa·s, and much more preferably equal to or greater than 8000 mPa·s. If the viscosity falls within such a range, the hair cosmetic is less likely to drop from, e.g., the first brush portion 6. Moreover, the viscosity of the hair cosmetic is preferably equal to or less than 40000 mPa·s, more preferably equal to or less than 25000 mPa·s, and much more preferably equal to or less than 20000 mPa·s. If the viscosity falls within such a range, the hair cosmetic is easily spread, and is easily uniformly spread to the tip of hair. Note that the viscosity can be obtained using, e.g., a B-type viscometer and a rotor No. 4 under measurement conditions of 12 rpm/min for one minute. Specific examples of the B-type viscometer may include a BL-type viscometer VISCOMETER (manufactured by Toki Sangyo Co., Ltd.).

[0098]

(4i) The function of one component in the above-described embodiment may be distributed to multiple components, or the functions of multiple components may be integrated into one component. Further, some of the configurations of the above-described embodiment may be omitted. In addition, at least some of the configurations of the above-described embodiment may be added to or replaced with the other configurations of the above-described embodiment, for example.

CLAIMS

1. A hair cosmetic application tool comprising:
 - a support portion;
 - a comb portion having multiple comb teeth standing on the support portion;
 - a slicing stick provided on a tip end side of the hair cosmetic application tool with respect to the comb portion on a comb portion side of the support portion and extending from the support portion; and
 - a brush portion provided on an opposite side of the support portion from the comb portion and the slicing stick and having multiple brush tooth lines in each of which multiple brush teeth are arranged.
2. The hair cosmetic application tool according to claim 1, wherein
 - the multiple brush teeth at the brush portion have a greatest height in an outermost brush tooth line in a direction in which the brush tooth lines are arranged, and
 - the multiple brush teeth in the outermost brush tooth line stand so as to be inclined to an outside of the brush portion in the direction in which the brush tooth lines are arranged.
3. The hair cosmetic application tool according to claim 1 or 2, wherein
 - among the multiple brush tooth lines of the brush portion, at least one brush tooth line and a brush tooth line adjacent to the at least one brush tooth line are arranged such that positions of the multiple brush teeth along the direction in which the brush teeth are arranged are shifted from each other.
4. The hair cosmetic application tool according to any one of claims 1 to 3,

further comprising:

in a case where the brush portion is a first brush portion, a second brush portion provided on the tip end side of the hair cosmetic application tool with respect to the first brush portion on the opposite side of the support portion from the comb portion and the slicing stick and having multiple brush tooth lines in each of which multiple brush teeth are arranged.

5. The hair cosmetic application tool according to claim 4, wherein
tips of the multiple brush teeth at the second brush portion are positioned on a side closer to the comb portion and the slicing stick with respect to a plane passing through a tip of a tallest one of the multiple brush teeth at the first brush portion.
6. The hair cosmetic application tool according to claim 4 or 5, wherein
the multiple brush teeth of the brush tooth lines at the first brush portion are arranged next to each other along a direction from a tip end to a tail end of the hair cosmetic application tool, and the multiple brush teeth of the brush tooth lines at the second brush portion are arranged next to each other in the direction from the tip end to the tail end of the hair cosmetic application tool.
7. The hair cosmetic application tool according to any one of claims 4 to 6,
wherein
among the multiple brush tooth lines of the second brush portion, at least one brush tooth line and a brush tooth line adjacent to the at least one brush tooth line are arranged such that positions of the multiple brush teeth along the direction in which the brush teeth are arranged are shifted from each other.

8. The hair cosmetic application tool according to any one of claims 4 to 7, wherein

a number of brush tooth lines of the second brush portion is smaller than a number of brush tooth lines of the first brush portion.

9. A hair cosmetic application tool comprising:

a support portion;

a first brush portion provided at the support portion and having multiple brush tooth lines in each of which multiple brush teeth are arranged; and

a second brush portion provided on a tip end side of the hair cosmetic application tool with respect to the first brush portion on a side, on which the first brush portion is provided, of the support portion and having multiple brush tooth lines in each of which multiple brush teeth are arranged,

wherein the multiple brush teeth of the brush tooth lines at the first brush portion are arranged next to each other along a direction from a tip end to a tail end of the hair cosmetic application tool, and the multiple brush teeth of the brush tooth lines at the second brush portion are arranged next to each other in the direction from the tip end to the tail end of the hair cosmetic application tool.

10. The hair cosmetic application tool according to claim 9, wherein

tips of the multiple brush teeth at the second brush portion are positioned on a support portion side with respect to a plane passing through a tip of a tallest one of the multiple brush teeth at the first brush portion.

11. The hair cosmetic application tool according to claim 9 or 10, wherein
among the multiple brush tooth lines of the first brush portion, at least one brush tooth line and a brush tooth line adjacent to the at least one brush tooth line are arranged such that positions of the multiple brush teeth along a direction in which the brush teeth are arranged are shifted from each other.

12. The hair cosmetic application tool according to any one of claims 9 to 11, wherein
among the multiple brush tooth lines of the second brush portion, at least one brush tooth line and a brush tooth line adjacent to the at least one brush tooth line are arranged such that positions of the multiple brush teeth along the direction in which the brush teeth are arranged are shifted from each other.

13. The hair cosmetic application tool according to any one of claims 9 to 12, wherein
the multiple brush teeth at the first brush portion have a greatest height in an outermost brush tooth line in a direction in which the brush tooth lines are arranged, and
the multiple brush teeth in the outermost brush tooth line stand so as to be inclined to an outside of the first brush portion in the direction in which the brush tooth lines are arranged.

14. The hair cosmetic application tool according to any one of claims 9 to 13, wherein
a number of brush tooth lines of the second brush portion is smaller than a number of brush tooth lines of the first brush portion.