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Packaging container

Abstract

A packaging container includes a lid assembly, an applicator, an outer stopper, an inner stopper, and a bottle, where the applicator includes a mounting portion, a connecting portion, and an application portion; two ends of the connecting portion are respectively fixedly connected to the mounting portion and the application portion; the mounting portion is fixedly connected to the lid assembly; the lid assembly covers a bottle mouth of the bottle; the outer stopper is fixedly provided at the bottle mouth of the bottle; the inner stopper is rotatably provided in the outer stopper; a first scraping hole and a second scraping hole communicating with each other are formed in the inner stopper; the first scraping hole is configured to scrape materials on the connecting portion; the second scraping hole is configured to scrape materials on the application portion; and the application portion can drive the inner stopper to rotate.

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Background/Summary

CROSS-REFERENCE TO THE RELATED APPLICATIONS

(1) This application is based upon and claims priority to Chinese Patent Application No. 202410524137.0, filed on Apr. 28, 2024, the entire contents of which are incorporated herein by reference.

TECHNICAL FIELD

(2) The present disclosure relates to a cosmetic packaging technology, and in particular to a packaging container.

BACKGROUND

(3) At present, applicators are provided in many cosmetic packaging containers. When used, cosmetic material is directly applied to human skin through an applicator, to not get fingers dirty. Moreover, cosmetic material is applied more uniformly through an applicator. However, since applicators are sheet-like, applicators need to be inserted into an inner stopper according to a fixed direction, which causes inconvenient operation.

SUMMARY

(4) In order to overcome the above defects, the present disclosure provides a packaging container. In the packaging container, the application portion of the applicator can drive the inner stopper to rotate, such that the application portion slides automatically into the second scraping hole of the inner stopper to enter the bottle. Therefore, the present disclosure is used very conveniently.

(5) To solve the technical problems, the present disclosure adopts the following technical solutions:

(6) The present disclosure provides a packaging container, including a lid assembly, an applicator, an outer stopper, an inner stopper, and a bottle, where the applicator includes a mounting portion, a connecting portion, and an application portion; two ends of the connecting portion are respectively fixedly connected to the mounting portion and the application portion; the mounting portion is

fixedly connected to the lid assembly; the lid assembly covers a bottle mouth of the bottle; the outer stopper is fixedly provided at the bottle mouth of the bottle; the inner stopper is rotatably provided in the outer stopper; a first scraping hole and a second scraping hole communicating with each other are formed in the inner stopper; the first scraping hole is configured to scrape materials on the connecting portion; the second scraping hole is configured to scrape materials on the application portion; and the application portion is capable of driving the inner stopper to rotate, such that the application portion is inserted into the second scraping hole.

(7) Optionally, a length of the connecting portion extending out of the lid assembly is defined as L1, and a size of a radial section of the lid assembly is defined as L2, $L1 \geq 0.5*L2$.

(8) Optionally, a structure of the lid assembly includes a cylinder; the radial section of the lid assembly is circular; and a radius of the lid assembly is defined as R, $L1 \geq R$.

(9) Optionally, a structure of the connecting portion includes a cylinder; a structure of the application portion includes a sheet-like structure; and a width H of the application portion is greater than a diameter D of the connecting portion.

(10) Optionally, a slot and an oblique plane are arranged on an inner sidewall of the inner stopper; the slot and the oblique plane are spaced apart; an elastic piece is fixedly provided in the slot; and a gap is provided between two elastic pieces to form the second scraping hole.

(11) Optionally, a shape of a radial section of the first scraping hole includes a circle; a shape of a radial section of the second scraping hole includes a square; and a width W of the second scraping hole is less than a thickness T of the application portion.

(12) Optionally, two to four pairs of second scraping holes are formed at a periphery of the first scraping hole; and each pair of second scraping holes are arranged symmetrically along a central axis of the inner stopper.

(13) Optionally; an inner sidewall of the outer stopper extends radially inward to form a circle of protrusion, a circle of clamping groove is formed in an outer sidewall of the inner stopper, the protrusion is provided in the clamping groove to rotatably provide the inner stopper in the outer stopper, and the inner stopper is axially stopped relative to the outer stopper; or a circle of groove is formed in the inner sidewall of the outer stopper, the outer sidewall of the inner stopper extends radially outward to form a circle of bump, the bump is provided in the groove to rotatably provide the inner stopper in the outer stopper, and the inner stopper is axially stopped relative to the outer stopper.

(14) Optionally, a material of the applicator includes a temperature-sensitive material; and the temperature-sensitive material includes metal, alloy, ceramic, glass or stone.

(15) Optionally, the lid assembly includes an outer lid and an inner lid fixedly provided in the outer lid; the mounting portion is fixedly provided in the inner lid; and the inner lid and the bottle are fixed through threaded connection.

(16) The present disclosure has the following beneficial effects: According to the packaging container, the cosmetic material is applied to the skin uniformly through the application portion. Therefore, in the process of applying the cosmetic material, the present disclosure is used more conveniently without getting fingers dirty, applies the cosmetic material more uniformly, and has the better application effect. The inner stopper can rotate relative to the outer stopper. When the application portion of the applicator comes in contact with the inner stopper, if the application portion is not aligned to the second scraping hole of the inner stopper, the application portion can drive the inner stopper to rotate relative to the outer stopper, such that the application portion slides automatically into the second scraping hole. Therefore, when the applicator is inserted into the inner stopper, there is no need to align the application portion to the second scraping hole particularly. The present disclosure is used more conveniently, and saves the makeup time.

Description

BRIEF DESCRIPTION OF THE DRAWINGS

(1) FIG. **1** is a first schematic structural view of a packaging container according to the present disclosure;

(2) FIG. **2** is an enlarged view of A shown in FIG. **1**;

(3) FIG. **3** is a second schematic structural view of a packaging container according to the present disclosure;

(4) FIG. **4** is an exploded view of a packaging container according to the present disclosure;

(5) FIG. **5** is a schematic structural view of an applicator according to the present disclosure;

(6) FIG. **6** is an internal structural view of an outer stopper and an inner stopper according to the present disclosure;

(7) FIG. **7** is a schematic structural view of an outer stopper according to the present disclosure;

(8) FIG. **8** is a first schematic structural view of an inner stopper according to the present disclosure;

(9) FIG. **9** is a second schematic structural view of an inner stopper according to the present disclosure;

(10) FIG. **10** is a schematic structural view when an applicator is inserted into an inner stopper according to the present disclosure;

(11) FIG. **11** is a sectional view along B-B shown in FIG. **10**;

(12) FIG. **12** is a sectional view along C-C shown in FIG. **11**; and

(13) FIG. **13** is a schematic view when an applicator is pulled out according to the present disclosure.

(14) In the figures: **10**—outer lid, **20**—inner lid, **30**—applicator, **31**—mounting portion, **32**—connecting portion, **33**—application portion, **40**—outer stopper, **41**—protrusion, **50**—inner stopper, **51**—clamping groove, **52**—first scraping hole, **53**—second scraping hole, **54**—slot, **55**—oblique plane, **56**—elastic piece, and **60**—bottle.

DETAILED DESCRIPTION OF THE EMBODIMENTS

(15) The following describes the technical solutions in the embodiments of the present disclosure clearly and completely with reference to the embodiments of the present disclosure. Apparently, the embodiments described are merely some rather than all of the embodiments of the present disclosure. All other embodiments obtained by a person of ordinary skill in the art based on the embodiments of the present disclosure without creative efforts shall fall within the protection scope of the present disclosure.

(16) It should be noted that the terms “first”, “second” and so on in the description and claims of the present disclosure and in the above accompanying drawings are intended to distinguish similar objects but do not necessarily indicate a specific order or sequence. It should be understood that the objects used in such a way may be exchanged under proper conditions to make it possible to implement the described implementations of this application in sequences except those illustrated or described herein. Moreover, the terms “include”, “have” and their variants mean to cover a non-exclusive inclusion. For example, a process, method, system, product or device that includes a list of steps or units is not necessarily limited to those steps or units which are clearly listed. Instead, they may include other steps or units which are not expressly listed or inherent to such a process, method, product, or device.

(17) For ease of description, spatially relative terms, such as “above”, “on the upper side of”, “on the upper surface of” and “on”, can be used to describe the spatial positional relationship between components or features shown in the figure. It should be understood that the spatially relative terms are intended to encompass different orientations of the components in use or operation in addition to those shown in the figure. For example, if a component in the figure is inverted, it is described as a component “above other component or structure” or “on other component or structure”. Therefore, the component will be positioned as “below other component or structure” or “under

other component or structure". Therefore, the exemplary term "above" may include both orientations "above" and "below". The component may also be positioned in other different ways (rotated by 90 degrees or in other orientations), but the relative description of the space should be explained accordingly.

(18) Embodiment: As shown in FIGS. **1**-**13**, a packaging container includes a lid assembly, applicator **30**, outer stopper **40**, inner stopper **50**, and bottle **60**. The applicator **30** includes mounting portion **31**, connecting portion **32**, and application portion **33**. Two ends of the connecting portion **32** are respectively fixedly connected to the mounting portion **31** and the application portion **33**. The mounting portion **31** is fixedly connected to the lid assembly. The lid assembly covers a bottle mouth of the bottle **60**. The outer stopper **40** is fixedly provided at the bottle mouth of the bottle **60**. The inner stopper **50** is rotatably provided in the outer stopper **40**. First scraping hole **52** and second scraping hole **53** communicating with each other are formed in the inner stopper **50**. The first scraping hole **52** is configured to scrape materials on the connecting portion **32**. The second scraping hole **53** is configured to scrape materials on the application portion **33**. The application portion **33** can drive the inner stopper **50** to rotate, such that the application portion **33** is inserted into the second scraping hole **53**.

(19) In the present disclosure, the bottle **60** is configured to store a skincare cosmetic material such as a facial cream, a hand cream, and a body cream. When the lid assembly covers the bottle mouth of the bottle **60**, the lid assembly and the bottle mouth of the bottle **60** are sealed by the outer stopper **40** and the inner stopper **50**. When the lid assembly is pulled out of the bottle **60**, the application portion **33** carries a certain amount of the cosmetic material, and the cosmetic material is applied to the skin uniformly through the application portion **33**. Therefore, in the process of applying the cosmetic material, the present disclosure is used more conveniently without getting fingers dirty, applies the cosmetic material more uniformly, and has the better application effect. In the process of inserting the applicator **30** into the inner stopper **50**, the application portion **33** is inserted into the second scraping hole **53** to pass through the inner stopper **50**. In the present disclosure, the inner stopper **50** can rotate relative to the outer stopper **40**. When the application portion **33** comes in contact with the inner stopper **50**, if the application portion **33** is not aligned to the second scraping hole **53**, the application portion **33** can drive the inner stopper **50** to rotate relative to the outer stopper **40**, such that the application portion **33** slides automatically into the second scraping hole **53**. Therefore, when the applicator **30** is inserted into the inner stopper **50**, there is no need to align the application portion **33** to the second scraping hole **53** particularly. The present disclosure is used more conveniently, and saves the makeup time.

(20) Optionally, the applicator **30** is coaxial with the lid assembly. As shown in FIG. **3**, a length of the connecting portion **32** extending out of the lid assembly is defined as L1, and a size of a radial section of the lid assembly is defined as L2, $L1 \geq 0.5*L2$. The so-called size of the radial section of the lid assembly refers to a maximum size of the radial section of the lid assembly. For example, when the radial section of the lid assembly is a rectangle, the size of the radial section of the lid assembly is a length of the radial section. When the radial section of the lid assembly is an ellipse, the size of the radial section of the lid assembly is a length of a major axis of the radial section. When the radial section of the lid assembly is circular, the size of the radial section of the lid assembly is a diameter of the radial section. The connecting portion of the conventional applicator has a very short length. When the lid assembly is held by a hand to apply the cosmetic material with the applicator **30**, due to obstruction of the lid assembly, a region of the application portion **33** close to the lid assembly cannot come in direct contact with the skin. Hence, the cosmetic material in the region cannot be used to cause a residue for a long time. This not only wastes the cosmetic material, but also is prone to cross-contamination of the cosmetic material to cause a waste of the cosmetic material.

(21) In the present disclosure, the length of the connecting portion **32** extending out of the lid assembly is increased. That is, the connecting portion **32** is used to replace some region of the

application portion **33**, and the whole application portion **33** can come in contact with the skin in the application process. Hence, the application portion **33** does not suffer the residue of the cosmetic material. Since the cosmetic material on the connecting portion **32** is scraped by the first scraping hole **52**, the whole applicator **30** does not suffer the residue of the cosmetic material. By extending the length of the connecting portion **32**, the present disclosure solves the waste of the cosmetic material and the cross-contamination.

(22) Optionally, as shown in FIGS. **1**-**4**, a structure of the lid assembly includes a cylinder. The radial section of the lid assembly is circular. A radius of the lid assembly is defined as R, L1≥R. The lid assembly designed as the cylinder meets using habits of people. When the length L1 of the connecting portion **32** extending out of the lid assembly is greater than or equal to the radius R of the lid assembly, all regions of the application portion **33** can come in direct contact with the skin, without the residue of the cosmetic material.

(23) As shown in FIG. **1**, FIG. **3** and FIG. **5**, a structure of the connecting portion **32** includes a cylinder. A structure of the application portion **33** includes a sheet-like structure. A width H of the application portion **33** is greater than a diameter D of the connecting portion **32**. The application portion **33** is the sheet-like structure, namely the width H of the application portion **33** is far greater than a thickness T of the application portion **33**. The sheet-like application portion **33** is more convenient to disperse the cosmetic material. The diameter D of the connecting portion **32** is less than the width H of the application portion **33**. This reduces the usage of the material and the weight of the applicator **30**. On the other hand, this facilitates scraping of the second scraping hole **53** for the application portion **33**, so as to prevent the application portion **33** from carrying the material excessively to cause the waste and contamination of the material.

(24) As shown in FIGS. **6**-**9**, slot **54** and oblique plane **55** are arranged on an inner sidewall of the inner stopper **50**. The slot **54** and the oblique plane **55** are spaced apart. Elastic piece **56** is fixedly provided in the slot **54**. A gap is provided between two elastic pieces **56** to form the second scraping hole **53**. The slot **54** and the oblique plane **55** are arranged along a circumferential direction of the inner sidewall of the inner stopper **50**. Two adjacent slots **54** are spaced apart by the oblique plane **55**. Likewise, two adjacent oblique planes **55** are spaced apart by the slot **54**. When the applicator **30** is inserted into the bottle **60**, if the application portion **33** is aligned fittingly to the slot **54**, the application portion **33** can directly pass through the second scraping hole **53** in the slot **54** to enter the bottle **60**. Then, the lid assembly covers a bottle mouth of the bottle **60**. If the application portion **33** comes in contact with the oblique plane **55**, the inner stopper **50** rotates a certain angle under an action of the application portion **33**, and then the application portion **33** slides into the slot **54**. Hence, the application portion **33** can also pass through the second scraping hole **53**. Therefore, there is no need to align the application portion **33** to the second scraping hole **53** particularly in use, and the present disclosure is used very conveniently.

(25) As shown in FIG. **11**, a shape of a radial section of the first scraping hole **52** includes a circle. The shape of the radial section of the first scraping hole **52** is the same as a shape of a radial section of the connecting portion **32**. A diameter of the radial section of the first scraping hole **52** is less than a diameter of the radial section of the connecting portion **32**. This can ensure that the cosmetic material on the connecting portion **32** can be scraped by an edge of the first scraping hole **52** completely. A shape of a radial section of the second scraping hole **53** includes a square. The shape of the radial section of the second scraping hole **53** is the same as a shape of a radial section of the application portion **33**. In the embodiment, both the shape of the radial section of the second application hole and the shape of the radial section of the application portion are the square. A width W of the second scraping hole **53** is less than a thickness T of the application portion **33**. This ensures that the material on the contacting application portion **33** is scraped by an edge of the second scraping hole **53** completely, keeps the material of the application portion **33** not contacting the edge of the second scraping hole **53**, and effectively prevents the application portion **33** from carrying the cosmetic material excessively.

(26) Optionally, two to four pairs of second scraping holes **53** are formed at a periphery of the first scraping hole **52**. Each pair of second scraping holes **53** are arranged symmetrically along a central axis of the inner stopper **50**. FIG. **11** shows two pairs of second scraping holes **53**. The two pairs of second scraping holes **53** are formed into a crisscross. Certainly, there may also be three or four pairs of second scraping holes **53**. This not only ensures a certain strength of the inner stopper **50** to guarantee the scraping effect, but also can facilitate insertion of the applicator **30**.
(27) As shown in FIG. **2**, in an implementation, an inner sidewall of the outer stopper **40** extends radially inward to form a circle of protrusion **41**. A circle of clamping groove **51** is formed in an outer sidewall of the inner stopper **50**. The protrusion **41** is provided in the clamping groove **51** to rotatably provide the inner stopper **50** in the outer stopper **40**. The inner stopper **50** is axially stopped relative to the outer stopper **40**.
(28) In another implementation, a circle of groove is formed in the inner sidewall of the outer stopper **40**. The outer sidewall of the inner stopper **50** extends radially outward to form a circle of bump. The bump is provided in the groove to rotatably provide the inner stopper **50** in the outer stopper **40**. The inner stopper **50** is axially stopped relative to the outer stopper **40**. Certainly, the outer stopper **40** and the inner stopper **50** each may be provided thereon a circle of convex rib. Two convex ribs are clamped to each other, such that the inner stopper **50** and the outer stopper **40** are stopped axially and movable circumferentially.
(29) Optionally, a material of the applicator **30** includes a temperature-sensitive material. The temperature-sensitive material includes metal, alloy, ceramic, glass or stone. When the applicator **30** made of the above temperature-sensitive material comes in contact with the skin, the user feels cool, with pores expanded. Meanwhile, this facilitates shrinkage of the pores after the skincare is penetrated into the pores, and improves the absorption effect of the skin for the skincare.
(30) As shown in FIGS. **1**-**4**, the lid assembly includes outer lid **10** and inner lid **20** fixedly provided in the outer lid **10**. The outer lid **10** and the inner lid **20** are fixed by clamping of clamping ribs, glue bonding, ultrasonic welding, etc. The mounting portion **31** is fixedly provided in the inner lid **20**. A mounting groove is formed in the inner lid **20**. The mounting portion **31** is fixedly provided in the mounting groove by clamping, glue bonding, etc. The inner lid **20** and the bottle **60** are fixed through threaded connection. An inner thread is provided on an inner sidewall of the inner lid **20**. An outer thread is provided on an outer sidewall of the bottle **60**. The inner lid **20** and the bottle **60** are detachably fixed through threaded connection of the inner thread and the outer thread. In the implementation, the radius of the radial section of the lid assembly is a radius of the outer lid **10**, and the length of the connecting portion **32** extending out of the lid assembly is greater than or equal to the radius of the outer lid **10**.
(31) The operation process of the present disclosure includes the following steps: First of all, the outer lid **10** is rotated, such that the lid assembly is separated from the bottle **60**. The lid assembly is pulled out. Meanwhile, the applicator **30** is taken out, and the material on the connecting portion **32** and in some region of the application portion **33** is scraped by the inner stopper **50**. Then, the cosmetic material carried on the application portion **33** is applied to the skin uniformly. Upon completion of application, the applicator **30** is inserted into the inner stopper **50**. Since the inner stopper **50** can rotate relative to the outer stopper **40**, the application portion **30** passes through the second scraping hole **53** easily to enter the bottle **60**. At last, the lid assembly is screwed to the bottle **60**.
(32) It should be noted that those of ordinary skill in the art can further make variations and improvements without departing from the conception of the present disclosure. These variations and improvements all fall within the protection scope of the present disclosure. Therefore, the protection scope of the present disclosure shall be subject to the appended claims.

Claims

1. A packaging container, comprising a lid assembly, an applicator, an outer stopper, an inner stopper, and a bottle, wherein the applicator comprises a mounting portion, a connecting portion, and an application portion; two ends of the connecting portion are respectively fixedly connected to the mounting portion and the application portion; the mounting portion is fixedly connected to the lid assembly; the lid assembly covers a bottle mouth of the bottle; the outer stopper is fixedly provided at the bottle mouth of the bottle; the inner stopper is rotatably provided in the outer stopper; a first scraping hole and a second scraping hole communicating with each other are formed in the inner stopper; the first scraping hole is configured to scrape materials on the connecting portion; the second scraping hole is configured to scrape materials on the application portion; and the application portion is allowed for driving the inner stopper to rotate, wherein the application portion is inserted into the second scraping hole.
2. The packaging container according to claim 1, wherein a length of the connecting portion extending out of the lid assembly is defined as L1, and a size of a radial section of the lid assembly is defined as L2, $L1 \geq 0.5*L2$.
3. The packaging container according to claim 2, wherein the lid assembly comprises an outer lid and an inner lid fixedly provided in the outer lid; the mounting portion is fixedly provided in the inner lid; and the inner lid and the bottle are fixed through threaded connection.
4. The packaging container according to claim 2, wherein a structure of the lid assembly comprises a cylinder; the radial section of the lid assembly is circular; and a radius of the lid assembly is defined as R, $L1 \geq R$.
5. The packaging container according to claim 4, wherein the lid assembly comprises an outer lid and an inner lid fixedly provided in the outer lid; the mounting portion is fixedly provided in the inner lid; and the inner lid and the bottle are fixed through threaded connection.
6. The packaging container according to claim 1, wherein a structure of the connecting portion comprises a cylinder; a structure of the application portion comprises a sheet-like structure; and a width H of the application portion is greater than a diameter D of the connecting portion.
7. The packaging container according to claim 6, wherein the lid assembly comprises an outer lid and an inner lid fixedly provided in the outer lid; the mounting portion is fixedly provided in the inner lid; and the inner lid and the bottle are fixed through threaded connection.
8. The packaging container according to claim 1, wherein a slot and an oblique plane are arranged on an inner sidewall of the inner stopper; the slot and the oblique plane are spaced apart; an elastic piece is fixedly provided in the slot; and a gap is provided between two elastic pieces to form the second scraping hole.
9. The packaging container according to claim 8, wherein the lid assembly comprises an outer lid and an inner lid fixedly provided in the outer lid; the mounting portion is fixedly provided in the inner lid; and the inner lid and the bottle are fixed through threaded connection.
10. The packaging container according to claim 8, wherein a shape of a radial section of the first scraping hole comprises a circle; a shape of a radial section of the second scraping hole comprises a square; and a width W of the second scraping hole is less than a thickness T of the application portion.
11. The packaging container according to claim 10, wherein the lid assembly comprises an outer lid and an inner lid fixedly provided in the outer lid; the mounting portion is fixedly provided in the inner lid; and the inner lid and the bottle are fixed through threaded connection.
12. The packaging container according to claim 10, wherein two to four pairs of second scraping holes are formed at a periphery of the first scraping hole; and each pair of second scraping holes are arranged symmetrically along a central axis of the inner stopper.
13. The packaging container according to claim 12, wherein the lid assembly comprises an outer lid and an inner lid fixedly provided in the outer lid; the mounting portion is fixedly provided in the inner lid; and the inner lid and the bottle are fixed through threaded connection.

14. The packaging container according to claim 1, wherein an inner sidewall of the outer stopper extends radially inward to form a circle of protrusion, a circle of clamping groove is formed in an outer sidewall of the inner stopper, the circle of protrusion is provided in the circle of clamping groove to rotatably provide the inner stopper in the outer stopper, and the inner stopper is axially stopped relative to the outer stopper; or a circle of groove is formed in the inner sidewall of the outer stopper, the outer sidewall of the inner stopper extends radially outward to form a circle of bump, the circle of bump is provided in the circle of groove to rotatably provide the inner stopper in the outer stopper, and the inner stopper is axially stopped relative to the outer stopper.

15. The packaging container according to claim 14, wherein the lid assembly comprises an outer lid and an inner lid fixedly provided in the outer lid; the mounting portion is fixedly provided in the inner lid; and the inner lid and the bottle are fixed through threaded connection.

16. The packaging container according to claim 1, wherein a material of the applicator comprises a temperature-sensitive material; and the temperature-sensitive material comprises metal, alloy, ceramic, glass or stone.

17. The packaging container according to claim 16, wherein the lid assembly comprises an outer lid and an inner lid fixedly provided in the outer lid; the mounting portion is fixedly provided in the inner lid; and the inner lid and the bottle are fixed through threaded connection.

18. The packaging container according to claim 1, wherein the lid assembly comprises an outer lid and an inner lid fixedly provided in the outer lid; the mounting portion is fixedly provided in the inner lid; and the inner lid and the bottle are fixed through threaded connection.