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(71) Applicant: **Yonwoo Co., Ltd.**
Incheon 22824 (KR)

(72) Inventors:
• **KIM, You-Seob**
Incheon 22824 (KR)
• **KIM, Min-Goo**
Incheon 22824 (KR)

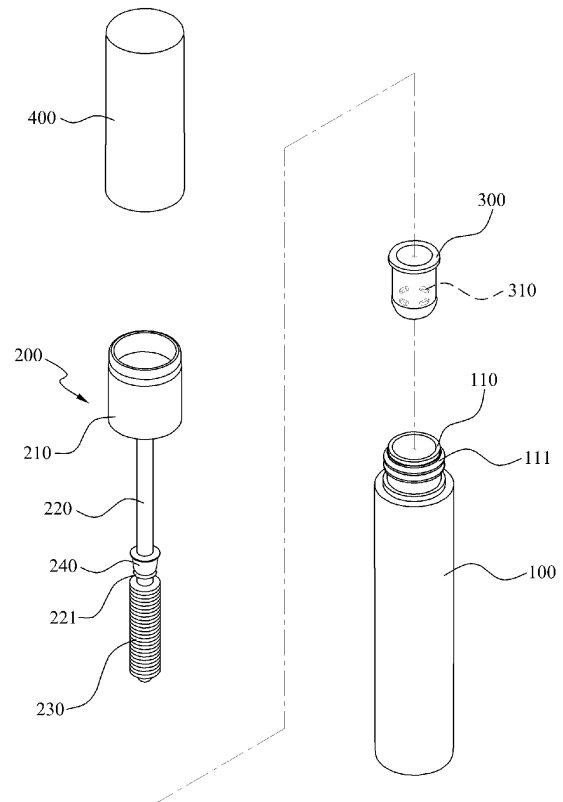
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(74) Representative: **Nordic Patent Service A/S**
Bredgade 30
1260 Copenhagen K (DK)

(54) **MASCARA CONTAINER PROVIDED WITH MOVING WIPER**

(57) The present invention relates to a mascara container provided with a moving wiper, more specifically the mascara container consisting of a dual wiper structure including a brush wiper coupled to the upper portion of a container body and a brush rod wiper surrounding and being slidably coupled to the outer circumferential surface of a brush rod, thereby keeping the cleanliness of the brush rod by wiping away contents adhered to a brush by means of the brush wiper in the process of withdrawing a mascara part from the container body, as well as wiping away contents adhered to the outer circumferential surface of the brush rod by means of the brush rod wiper.

Fig. 1



Description

BACKGROUND OF THE INVENTION

[0001] The present invention relates to a mascara container provided with a moving wiper, more specifically the mascara container consisting of a dual wiper structure including a brush wiper coupled to the upper portion of a container body and a brush rod wiper surrounding and being slidably coupled to the outer circumferential surface of a brush rod, thereby keeping the cleanliness of the brush rod by wiping away contents adhered to a brush by means of the brush wiper in the process of withdrawing a mascara part from the container body, as well as wiping away contents adhered to the outer circumferential surface of the brush rod by means of the brush rod wiper.

[0002] Generally, a mascara, which has a brush smeared with mascara liquid for arranging eyelashes or curling up eyelashes or making eyelashes look thick and voluminous, is used for an eyelash makeup that can make eyelashes look prettier.

[0003] A mascara container, which is configured to store mascara as in the above, is provided with: a container body storing mascara liquid and provided with a discharge part at an upper portion; a mascara part, coupled with a coupling part which is screw-coupled to the discharge part, extending downward at a center portion thereof and inserted into the container body, and having a brush rod integrally assembled with a brush rod coupled at a lower end thereof; and a cover part coupled, encasing the mascara part. This type mascara container configured to smear contents adhered on a brush by separating the mascara part from the container body where gel-type mascara liquid is stored.

[0004] At the mascara container in the above, a wiper is installed and fixed at an upper portion of the container body for wiping away contents adhered on the brush and brushing off certain amount of contents when separating the mascara part from the container body. A mascara container, provided with this type wiper, is disclosed in the registered utility model no. 20-0397604 (Hereafter, it is called as the registered utility model.)

[0005] The registered utility model relates to a mascara container, comprising a container filled with a certain amount of mascara and a cap, a brush rod and a brush assembled to the cap, first and second wipers with two-staged structure which prevents evaporation of moisture of mascara adhered on the brush and wipes away the mascara adhered on the brush while the brush is being withdrawn,

characterized in that a second wiper, interlocked from an upper portion to a lower portion of the first wiper, is assembled with a bent end encasing an upper portion and a peripheral end of a flange fastened to an upper end of a mouth of the container, and comprises a multitude of radial-shaped blades which are bent in a predetermined angle towards the center of downward direction at a lower

end thereof, and a two-staged wiper having a contents passing hole with a predetermined width longitudinally between these blades and a center hole where a brush rod passes at the center.

[0006] The registered utility model in the above, containing dual wipers such that a brush can be adhered with an appropriate amount of mascara for being used, can wipe away contents adhered on the brush by means of first and second wipers. However, not having a structure for wiping away contents adhered on the brush rod, the registered utility model has a problem in which it is hard to wipe away contents adhered on an outer circumferential surface of the brush rod.

SUMMARY OF THE INVENTION

[0007] The present invention, disclosed herein to solve the problems described in the above, is to provide a mascara container provided with a moving wiper, which has a dual wiper structure of a brush wiper coupled to the container body and a brush rod wiper encasing an outer circumferential surface and slidably coupled, such that it is possible to wipe away contents adhered to a brush by means of the brush wiper in the process of withdrawing a mascara part from the container main body, and also to keep the cleanliness of the brush rod by wiping away contents adhered to the outer circumferential surface of the brush rod by means of the brush rod wiper.

[0008] To solve the problem in the above, a mascara container provided with a moving wiper according to the present invention includes: a container body storing contents; a mascara part coupled to an upper portion of the container body, and comprising a brush rod, which extends downwards from a center portion thereof and is inserted to an interior of the container body, and a brush which is coupled to a lower end of the brush rod; and a brush wiper coupled to an upper portion of the container body and wiping contents adhered on the brush, wherein the mascara part further comprises a brush rod wiper coupled for encasing an outer circumferential surface of the brush rod and slidably moving in a longitude direction,

characterized in that the brush rod wiper is fixedly coupled at an interior of the brush wiper in a state the mascara part is coupled to the container body and wipes away contents adhered on the brush rod in a process of withdrawing the brush rod from the container body and then is withdrawn in company with the brush rod as the coupling with the brush wiper is released by pressurization of a dead end of the brush rod.

[0009] Furthermore, it is characterized in that at an inner circumferential surface of the brush wiper is formed a limitation protrusion which temporarily limits the movement of the brush rod wiper in a process of inserting the brush rod into the container body or withdrawing the brush rod from the container body.

[0010] Furthermore, it is characterized in that at a lower portion of the brush rod is provided a first pressurization

part which pressurizes a lower end of the brush rod wiper and moves the brush rod wiper to an upper portion of the limitation protrusion at a process that the brush rod is being withdrawn from the container body, and at an upper portion is provided a second pressurization part which pressurizes an upper end of the brush rod wiper and moves the brush rod wiper to a lower portion of the limitation protrusion in a process that the brush rod is being inserted into the container body.

[0011] As described in the above, the present invention is composed of a dual wiper structure of a brush wiper coupled to an upper portion of the container body and a brush rod wiper encasing an outer circumferential surface of the brush rod and slidably coupled. Therefore, it is possible to wipe away contents adhered on the brush by means of the brush wiper in a process of withdrawing the mascara part from the container body and additionally to wipe away contents coated on an outer circumferential surface of the brush rod by means of the brush rod wiper, thereby being able to keep the brush rod clean.

[0012] Furthermore, the present invention is composed of a structure in a way that the brush rod wiper fixedly coupled to an inner side of the brush wiper, in a process of withdrawing the mascara part from the container body, firstly wipes away contents adhered on an outer circumferential surface of the brush rod and is withdrawn in company with the brush rod by a pressurization part at a dead end of the brush rod, and then contents adhered on the brush is wiped away by the brush wiper. Since the brush is configured not to be passed through the brush rod having a relatively narrow circumference, it is possible to prevent the brush from being deformed.

BRIEF DESCRIPTION OF THE DRAWINGS

[0013]

FIG. 1 is an exploded perspective view illustrating a configuration of a mascara container provided with a moving wiper according to an exemplary embodiment of the present invention.

FIG. 2 is a perspective view illustrating a configuration of the mascara container provided with a moving wiper according to an exemplary embodiment of the present invention.

FIG. 3 is a combined cross-sectional view illustrating a configuration of the mascara container provided with a moving wiper according to an exemplary embodiment of the present invention.

FIGS. 4 to 6 are usage state diagrams of the mascara container provided with a moving wiper according to an exemplary embodiment of the present invention.

DETAILED DESCRIPTION OF PREFERRED EMBODIMENTS

[0014] Hereinafter, the present invention will be described in detail with reference to accompanying draw-

ings. The same reference numerals provided in the drawings indicate the same members.

[0015] FIG. 1 is an exploded perspective view illustrating a configuration of a mascara container provided with a moving wiper according to an exemplary embodiment of the present invention. FIG. 2 is a perspective view illustrating a configuration of the mascara container provided with a moving wiper according to an exemplary embodiment of the present invention. FIG. 3 is a combined cross-sectional view illustrating a configuration of the mascara container provided with a moving wiper according to an exemplary embodiment of the present invention.

[0016] Referring to FIGS. 1 and 3, a mascara container provided with a moving wiper according to the preferred embodiments of the present invention includes a container body 100, a mascara part 200, and a brush wiper 300.

[0017] The container body 100, storing liquid-type contents such as mascara, is provided with a discharge part 110 in which contents are discharged at an upper portion thereof, wherein a first screw thread 111 is formed at an outer circumferential surface of the discharge part 110 for being screw-coupled with a coupling part 210 of the mascara part 200.

[0018] The mascara part 200, screw-coupled to an upper portion of the container body 100, is provided with a coupling part 210 which encases the discharge part 110 and detachably screw-coupled, wherein a second screw thread 211 is formed at an inner circumferential surface of the coupling part 210 for screw-coupling with the first screw thread 111.

[0019] At a center portion of the coupling part 210 is downwardly extended a brush rod 220 which is inserted into an interior of the container body 100 in a state that the coupling part 210 is coupled to the discharge part 110, and at a lower end of the brush rod 220 is coupled a brush 230 for applying contents stored in the container body 100.

[0020] The present invention is characterized in a way that a brush rod wiper 240 is coupled to the brush rod 220 for encasing an outer circumferential surface of the brush rod 220 and slidably moving in a longitudinal direction, wherein the brush rod wiper 240 is configured to be fixedly coupled to an inner side of the brush wiper 300 in a state that a mascara part 200 is coupled to the container body 100, and to wipe away contents adhered on the brush rod 220 in a process of withdrawing the brush rod 220 from the container body 100. When the brush rod 220 completes being withdrawn away, the brush rod wiper 240 is released from coupling with the brush wiper 300 by pressurization of the first pressurization 221 formed at a dead end of the brush rod 220 and thereby is withdrawn in company with the brush rod 220.

[0021] For this, at a lower portion of the brush rod 220 is provided a first pressurization part 221 which pressurizes a lower end of the brush rod wiper 240 in a process that the brush 220 is withdrawn from the container body

100 and moves the brush rod wiper 240 to an upper portion of a limitation protrusion 310, thereby fixing the brush rod wiper 240 at an inner side of the brush wiper 300.

[0022] Meanwhile, at an upper portion of the brush rod 220 is provided a second pressurization part 221 which fixes the brush rod wiper 240 to an inner side of the brush wiper 300 by pressurizing an upper end of the brush rod wiper 240 in a process the brush rod 220 is inserted into the container body 100 and moving the brush rod wiper 240 to a lower portion of the limitation protrusion 310.

[0023] Furthermore, the brush rod wiper 240 is formed in a smaller size than the brush wiper 300 such that the mascara part 200 can be fixedly coupled to an inner side of the brush wiper 300 in a state of being coupled to the container body 100, preferably in as big a diameter as to be closely contacted to an outer circumferential surface of the brush rod 220 and for the brush rod 220 only to pass through.

[0024] Meanwhile, a cover part 400, which encases the mascara part 200, is coupled to an outer surface of the mascara part 200, wherein the cover part 400 has a predetermined length for a user to grasp, thus enabling the mascara part 200 coupled to an inner side thereof to rotate according to user's manipulation.

[0025] The brush wiper 300 is coupled to an upper portion of the container body 100 and wipes away contents adhered on the brush 230 in a process of withdrawing the mascara part 200 from the container body 100. In the present invention, the brush wiper 300 is characterized to form a limitation protrusion 310, at an inner circumferential surface of the brush wiper 300, which temporarily limits the movement of the brush rod wiper 240 in a process of inserting the brush rod 220 into the container body 100 or withdrawing the brush rod 220 from the container body 100.

[0026] The limitation protrusion 310 supports an upper end portion of the brush rod wiper 240 and limits the downward movement of the brush rod wiper 240 when the brush rod 220 is inserted into the container body 100, but limits the brush rod wiper 240 from moving upwards in a state that the brush rod wiper 240 moves to a lower portion of the limitation protrusion 310 when the second pressurization part 222 pressurizes the brush rod wiper 240.

[0027] Hereafter, with reference to FIGS. 4 and 6, an operational procedure of a mascara container provided with a moving wiper according to an exemplary embodiment of the present invention will be described.

[0028] Firstly, referring to FIGS. 4 and 6, when the cover part 400 is rotated in a state that a coupling part 210 of the mascara part 200 is coupled to a discharge part 100 of the container body 100, a first screw thread 111 of the discharge part 110 is released from screw-coupling with a second screw thread 211 of the coupling part 210, such that the mascara part 200 can be withdrawn from the container body 100. At this moment, since it is in a state that an upper end of the brush rod wiper 240 is supported by a limitation protrusion 310 and thereby the

ascent of the brush rod wiper 240 is limited, the brush rod wiper 240 can wipe away contents adhered on an outer circumferential surface of the brush rod 220 in a process of the brush rod 220 ascending.

[0029] When a first pressurization part 221 provided at a lower portion of the brush rod 220 meets a lower end of the brush rod wiper 240 while the brush rod 220 is ascending, the brush rod wiper 240 breaks away from the limitation protrusion 310 and moves upwards, such that the brush rod wiper 240 can be withdrawn in company with when the brush rod 220 is withdrawn from the container body 100.

[0030] As in the above, in a process that the brush rod 220 is withdrawn, contents adhered on the brush 230 which is coupled to a dead end of the brush rod 220 is wiped away by the brush wiper 300.

[0031] Next, referring FIG. 6, when a mascara part 200 is inserted into the container body 100, a brush rod 220 descends with an upper end of the brush rod wiper 240 seated on a limitation protrusion 310. When a second pressurization part 222 meets an upper end of the brush rod wiper 240 provided at an upper portion of the brush rod 220 while the brush rod 220 is descending, the brush rod wiper 240 breaks away from the limitation protrusion 310 by the second pressurization part 222 and moves downward.

[0032] As in the above, when the brush rod wiper 240 move to a lower portion of the limitation protrusion 310, an upper end of the brush rod wiper 240 is supported by the limitation protrusion 310 and thereby an upward movement thereof is limited. Due to this, when the mascara part 200 is withdrawn for content use, it is possible to wipe away contents adhered on an outer circumferential surface of the brush rod 220.

[0033] The present invention, as previously described, is configured in that the brush rod wiper 240 fixedly coupled to an inner side of the brush wiper 300 in a process of withdrawing the mascara part 200 from the container body 100 firstly wipes away contents adhered on the outer circumferential surface of the brush rod 220 and then, after being withdrawn in company with the brush rod 220 by the pressurization part 221 at a dead end of the brush, contents adhered on the brush 230 is wiped away by the brush wiper 300. Therefore, it is possible to keep the brush rod 220 clean and also to prevent the brush 230 from being deformed due to the structure wherein the brush 230 does not pass through the brush rod wiper 240 whose perimeter is relatively narrow.

[0034] As described above, optimal embodiments have been disclosed in the drawings and the specification. Although specific terms have been used herein, these are only intended to describe the present invention and are not intended to limit the meanings of the terms or to restrict the scope of the present invention as disclosed in the accompanying claims. Therefore, those skilled in the art will appreciate that various modifications and other equivalent embodiments are possible from the above embodiments. Accordingly, the scope of the

present invention should be defined by the technical spirit of the accompanying claims.

the container body (100).

Claims

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1. A mascara container provided with a moving wiper comprises:

a container body (100) storing contents; 10
 a mascara part (200) coupled to an upper portion of the container body (100), comprising a brush rod (220) extending downwards from a center portion thereof and inserted to an interior of the container body (100), and a brush (230) coupled 15
 to a lower end of the brush rod (220); and
 a brush wiper (300) coupled to an upper portion of the container body (100) and wiping contents adhered on the brush (230),
characterized in that the mascara part (200) 20
 further comprises a brush rod wiper (240) coupled for encasing an outer circumferential surface of the brush rod (220) and slidingly moving in a longitudinal direction, and
characterized in that the brush rod wiper (240) 25
 is fixedly coupled at an interior of the brush wiper (300) in a state the mascara part (200) is coupled to the container body (100) and wipes away contents adhered on the brush rod (220) in a process of withdrawing the brush rod (220) from the 30
 container body (100) and then is withdrawn in company with the brush rod (220) as the coupling with the brush wiper (300) is released by pressurization of a dead end of the brush rod (220). 35

2. The mascara container provided with a moving wiper of claim 1, **characterized in that** at an inner circumferential surface of the brush wiper (300) is formed a limitation protrusion (310) which temporarily limits 40
 the movement of the brush rod wiper (240) in a process of inserting the brush rod (220) into the container body (100) or withdrawing the brush rod (220) from the container body (100). 45
3. The mascara container provided with a moving wiper of claim 2, **characterized in that** at a lower portion of the brush rod (220) is provided a first pressurization part (221) which pressurizes a lower end of the brush rod wiper (240) and moves the brush rod wiper 50
 (240) to an upper portion of the limitation protrusion in a process that the brush rod (220) is being withdrawn from the container body (100), and at an upper portion is provided a second pressurization part 55
 (222) which pressurizes an upper end of the brush rod wiper (240) and moves the brush rod wiper (240) to a lower portion of the limitation protrusion (310) in a process of the brush rod (220) being inserted into

Fig. 1

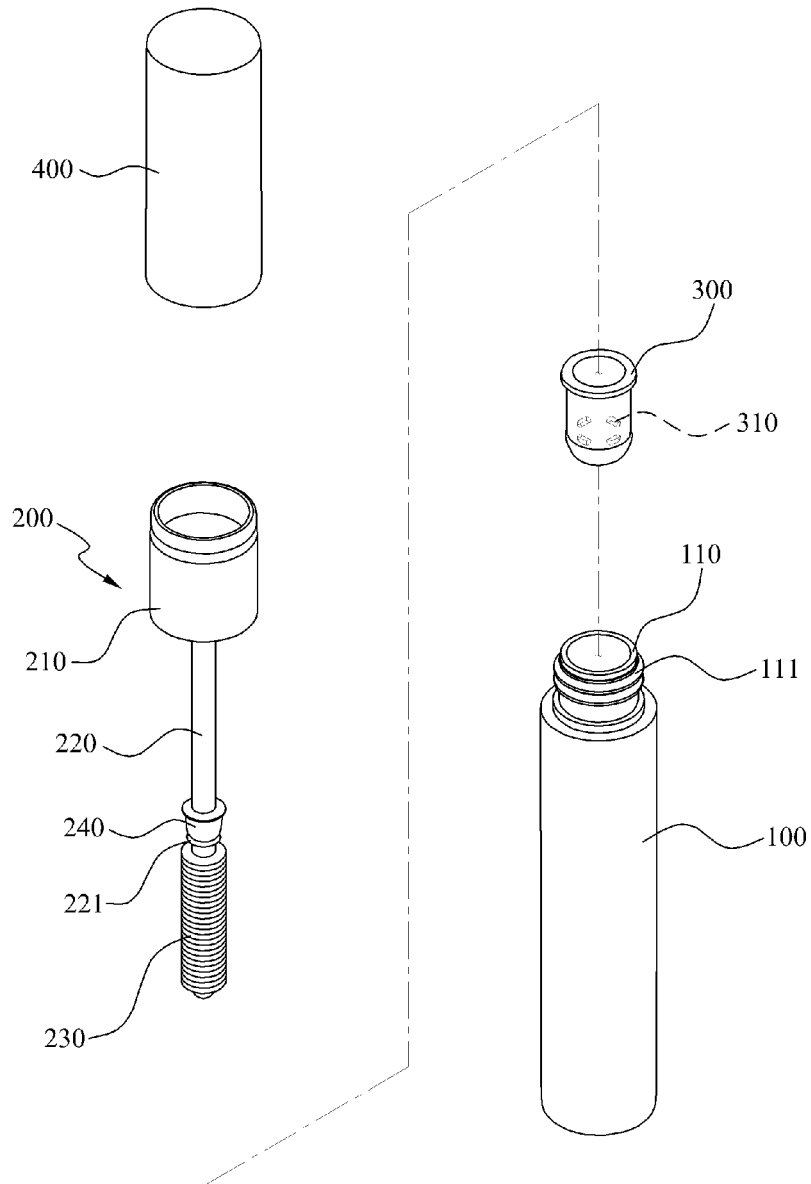


Fig. 2

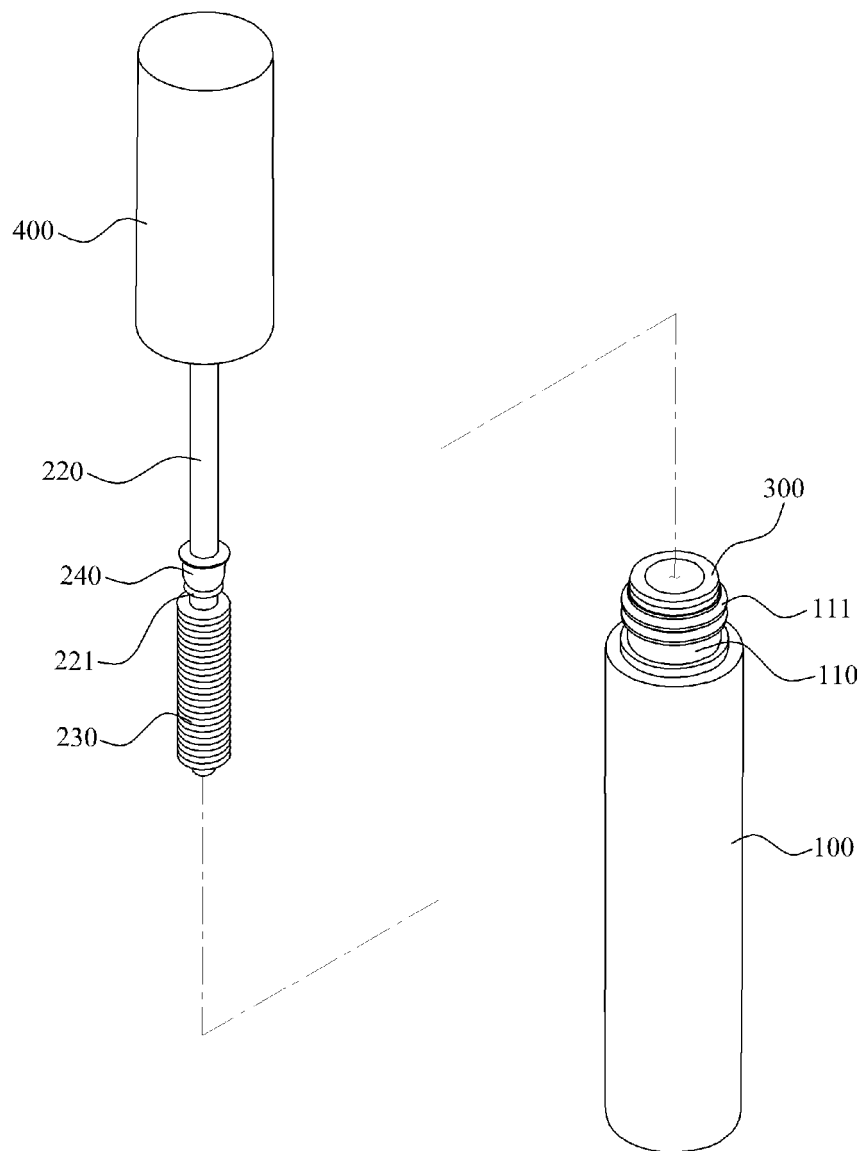


Fig. 3

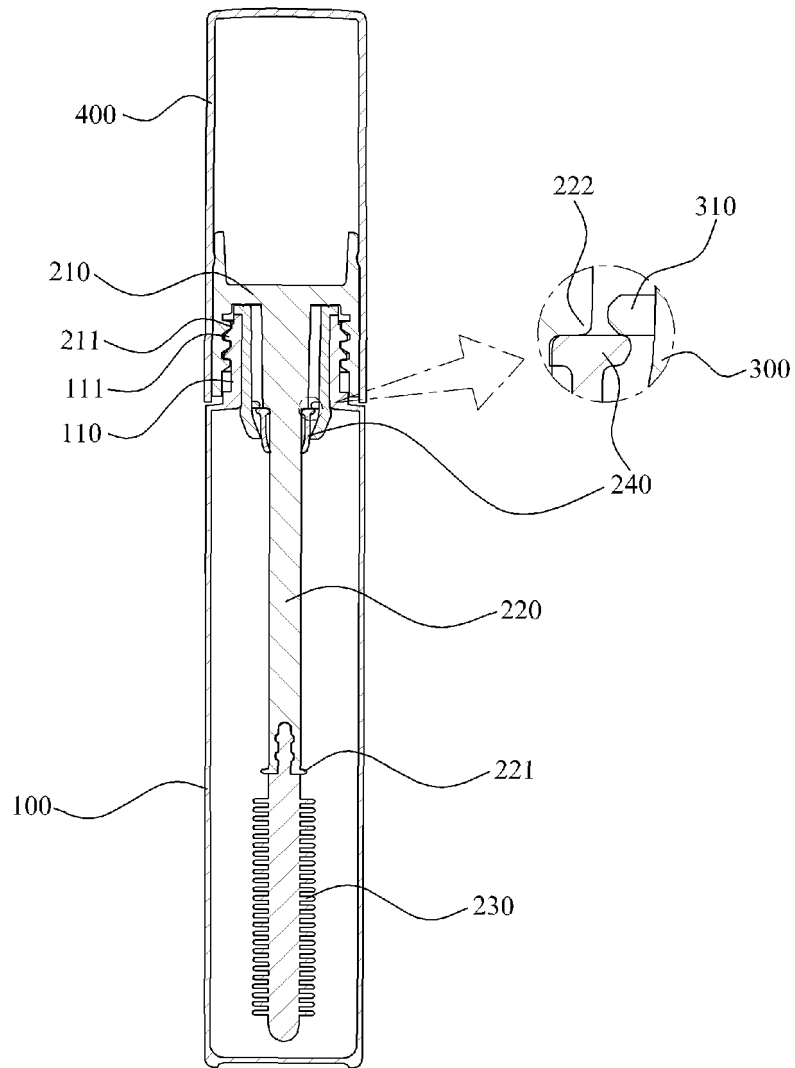


Fig. 4

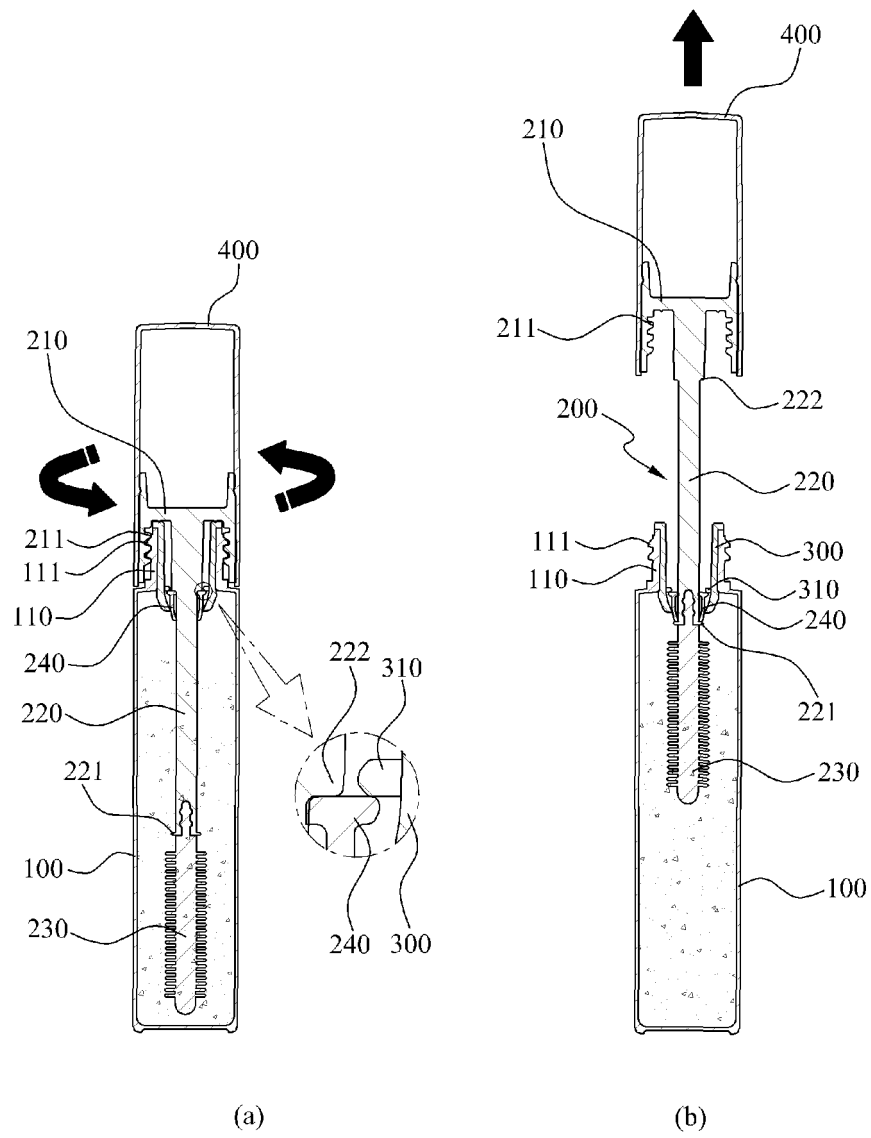


Fig. 5

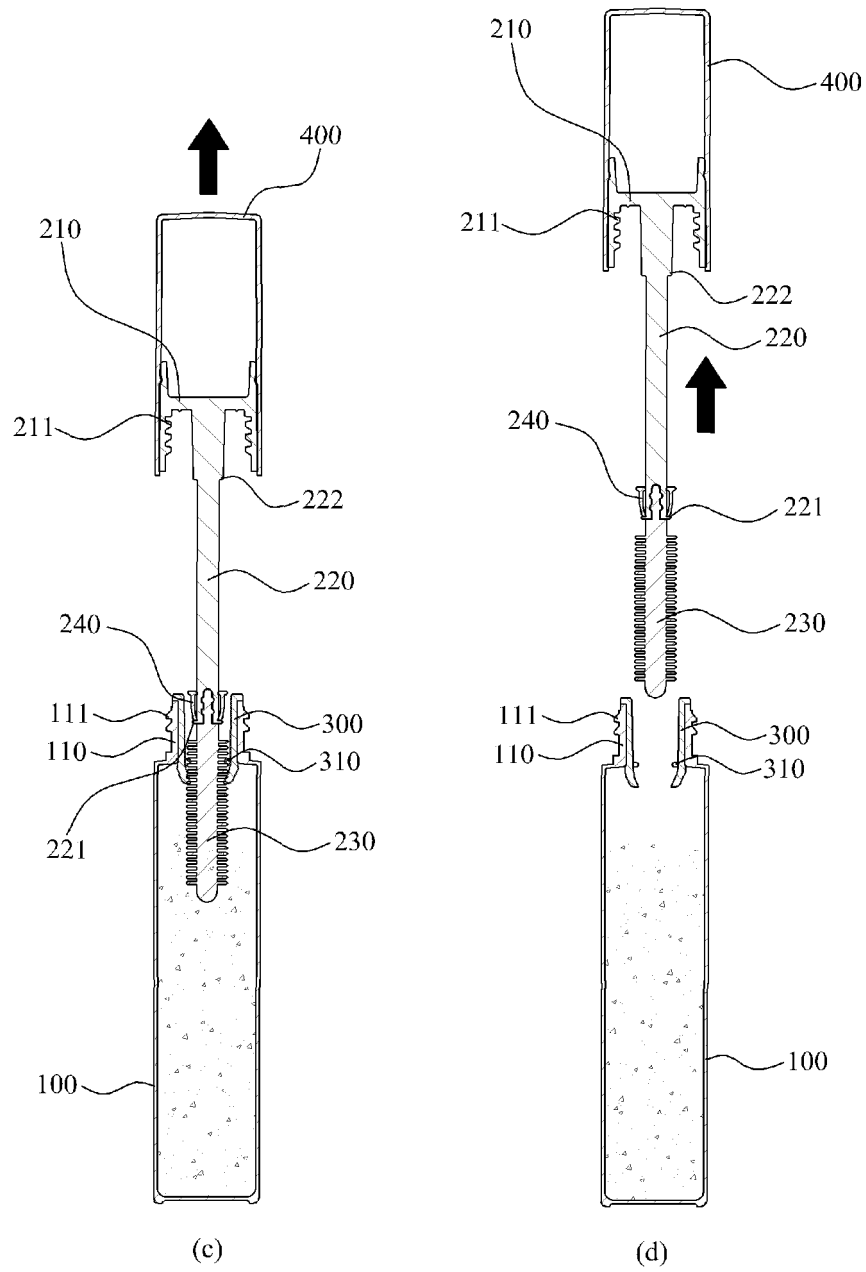
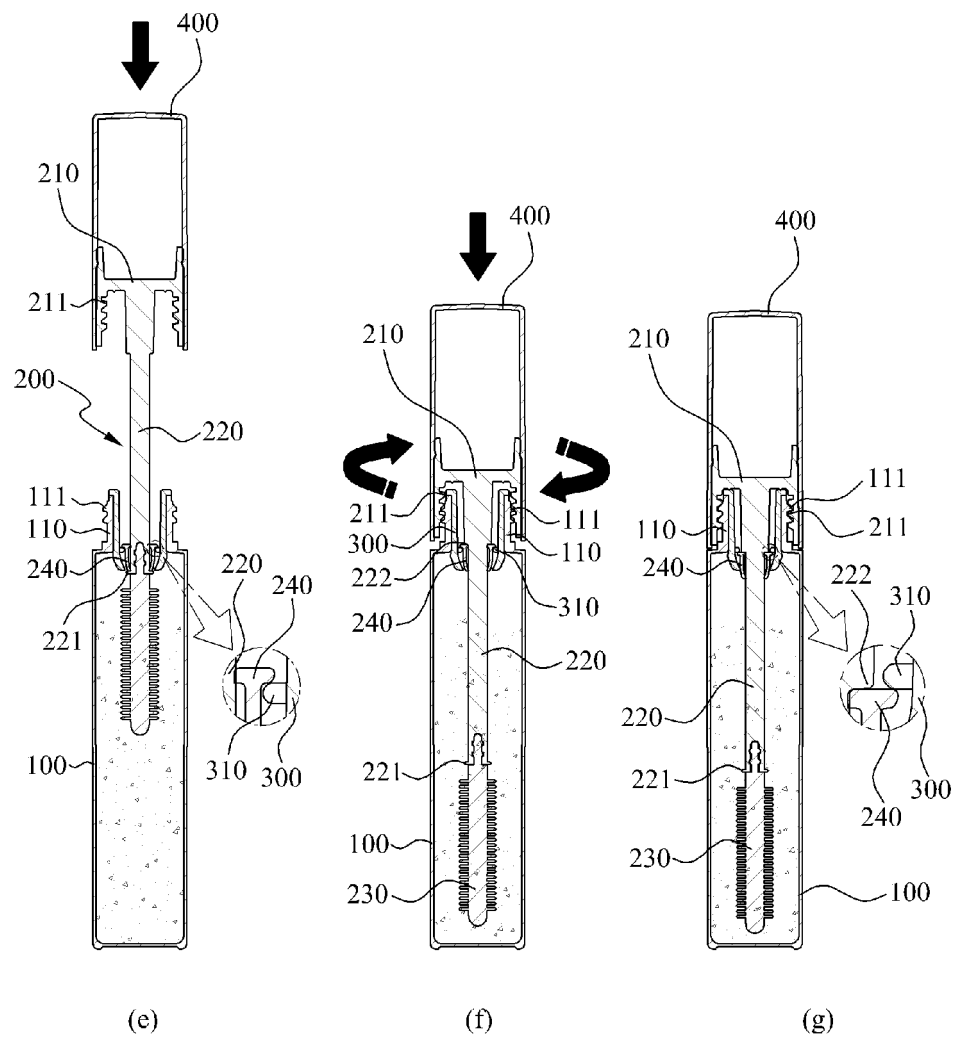


Fig. 6



INTERNATIONAL SEARCH REPORT

International application No.

PCT/KR2015/014308

A. CLASSIFICATION OF SUBJECT MATTER

A45D 34/04(2006.01)i, A45D 34/00(2006.01)i

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

A45D 34/04; A45D 40/26; A45D 34/00; A45D; A45D 40/00

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Korean Utility models and applications for Utility models: IPC as above

Japanese Utility models and applications for Utility models: IPC as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

eKOMPASS (KIPO internal) & Keywords: mascara, brush rod wiper, brush wiper, pressurizing, projection

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	KR 20-0397604 Y1 (BYEON, Jae Sam) 05 October 2005 See paragraphs [0026]-[0043]; claims 1-4; figures 1-8.	1-3
A	KR 20-0475967 Y1 (AMOREPACIFIC CORPORATION) 26 January 2015 See paragraphs [0034]-[0077]; claims 1-8; figures 2-7.	1-3
A	US 5192153 A (GUERET, J. H.) 09 March 1993 See claims 1-8; figures 1-12.	1-3
A	US 2014-0290681 A1 (ZEN DESIGN SOLUTIONS LIMITED) 02 October 2014 See claims 1-20; figures 1-6B.	1-3
A	JP 07-047013 A (YVES SAINT LAURENT PARUMS) 21 February 1995 See claims 1-4; figures 1-11.	1-3

☐ Further documents are listed in the continuation of Box C.
 ☒ See patent family annex.

* Special categories of cited documents:

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"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search

29 FEBRUARY 2016 (29.02.2016)

Date of mailing of the international search report

28 MARCH 2016 (28.03.2016)

Name and mailing address of the ISA/KR


 Korean Intellectual Property Office
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INTERNATIONAL SEARCH REPORT
Information on patent family members

International application No.

PCT/KR2015/014308

Patent document cited in search report	Publication date	Patent family member	Publication date
KR 20-0397604 Y1	05/10/2005	NONE	
KR 20-0475967 Y1	26/01/2015	NONE	
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		JP 04-231911 A	20/08/1992
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