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(54) **Title:** COSMETIC JARS WITH SWEEP COLLAR

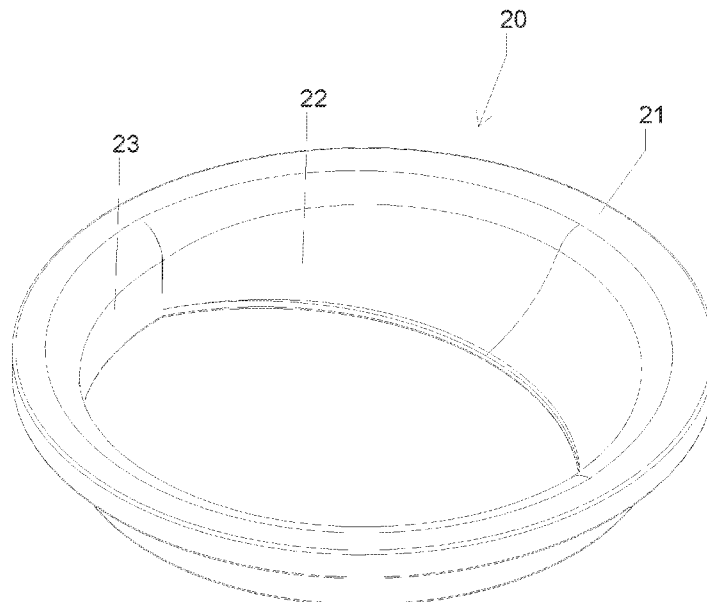


Figure 1

(57) **Abstract:** A cosmetic jar container configured with a collar insert to help distribute loose powder product on an applicator. An illustrative cosmetic jar includes a cap, a jar having a reservoir and a neck, and a collar secured to the neck of the jar. The collar includes a manipulation surface inside the neck for use in distributing a powder product on an applicator and/or removing excess product from the applicator.



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COSMETIC JARS WITH SWEEP COLLAR

RELATED APPLICATIONS

The present application claims the benefit of and priority to US Provisional
5 Patent Application 62/643,406 filed on March 15, 2018, and titled "COSMETIC
JARS WITH SWEEP COLLAR," which is incorporated herein by reference.

FIELD

The present application relates generally to jar and lid assemblies for
10 containing cosmetics.

BACKGROUND

The cosmetic industry generally uses cosmetic jar containers to store cosmetic
compositions which may include various powders, liquids or creams. A jar typically
15 includes a body that forms a reservoir for containing product with a neck at the upper
end thereof. The exterior of the neck may include threading or a snap fit structure for
coupling to a lid.

Loose powder is typically harder to work with as compared to pressed powder
as it can be messy. A typical user will insert a brush or other applicator in the
20 reservoir of loose powder in a jar and rub the applicator or brush against the inside of
the neck while removing it from the reservoir to remove excess product before
applying to body. The result is typically that the product is unevenly distributed on
the applicator.

The jar and/or lid of the cosmetic jar container are typically made of an
25 opaque material, a glass, a plastic, a metal, combinations of the foregoing, or the like,
that when closed together create an airtight seal. These jar and lid assemblies may be
sealed by a thread fastening mechanism, a snap fastening mechanism, or a clamp
fastening mechanism. For additional air-tight sealing, an O-ring or a gasket may be
interposed by the jar and the lid.

30 Thus, although portable vessels and applicators exist, there is a continuing
need for one to effectively clean the brush of excess product.

OVERVIEW

The present inventors have recognized, among other things, that a problem to be solved is the need for improved cosmetic packaging. In particular, a cosmetics jar is provided with a collar that sits on top of the neck, having a portion extending into
5 the neck to provide a manipulation surface against which a user can rub or scrape an applicator to obtain a desired distribution of product.

A first illustrative, non-limiting example takes the form of a container for storing a cosmetic product comprising: a cosmetic jar having a reservoir for containing the product and a neck on an upper portion thereof with an upper end
10 having an opening for accessing product in the reservoir; a collar fitted to the upper end of the neck, the collar having an upper rim defining an opening therethrough and manipulation surface extending down into the reservoir from the upper rim along a portion of the opening; and a cap configured to couple with housing.

A second illustrative, non-limiting example takes the form of a cosmetic
15 container comprising: a jar having a body defining a reservoir and having a neck allowing access to product in the reservoir; a cap configured for coupling to the jar; and a collar on the neck of the jar having an upper rim and a manipulation surface extending down from the upper rim defining a curved inner edge at a bottom edge thereof such that on one portion of the collar, an inner sidewall extends straight down
20 from the rim and on a second portion of the collar, the manipulation surface extends downward at an angle towards the reservoir, such that the manipulation surface allows a user to scrape, rub or tap a brush thereon.

Additionally or alternatively to any of the above examples, the rim of the collar may comprise an inner side wall that extends into the jar, wherein the
25 manipulation surface of the collar projects inward from the side wall.

Additionally or alternatively to any of the above examples, the cap may be a screw cap assembly comprising an inner lid having at least one horizontal protrusion and at least one vertical recess on its outer surface and an outer shell having at least one horizontal recess and at least one vertical protrusion on its inner surface, and the
30 cap may be assembled such that the horizontal protrusion and horizontal recess cooperate, and the vertical protrusion and vertical recess cooperate, to secure the inner lid and the outer shell together.

Additionally or alternatively to any of the above examples, the inner part of the screw cap assembly may comprise internal threading to mate with external threading of the jar neck.

5 Additionally or alternatively to any of the above examples, the cap may include a transparent or semi-transparent window on a top surface thereof to view the loose powder product in the reservoir.

Additionally or alternatively to any of the above examples, the collar rim extends around 360 degrees of the neck, wherein the manipulation surface may extend around about 90 to about 270 degrees of the collar rim.

10 Additionally or alternatively to any of the above examples, the collar rim extends around 360 degrees of the neck, wherein the manipulation surface may extend around about 180 degrees of the collar rim.

Additionally or alternatively to any of the above examples, the neck defines an opening having a diameter, wherein the manipulation surface may extend inward from the neck over about 10% to about 25% of the diameter of the neck.

15 Additionally or alternatively to any of the above examples, the neck defines an opening having a diameter, wherein the manipulation surface may extend inward from the neck over about 15% of the diameter of the neck.

20 Additionally or alternatively to any of the above examples, the neck defines an opening having a radius, wherein the manipulation surface may extend inward from the neck over about 15% to about 50% of the radius.

Additionally or alternatively to any of the above examples, the neck defines an opening having a radius, wherein the manipulation surface may extend inward from the neck over about 30% of the radius.

25 Additionally or alternatively to any of the above examples, the manipulation surface may be generally concave.

Additionally or alternatively to any of the above examples, the manipulation surface may be a flat surface from the top of the rim to its lower edge.

30 Additionally or alternatively to any of the above examples, the manipulation surface may define an angle, relative to a plane on which the top of the neck is defined, of about 30 to about 65 degrees.

Additionally or alternatively to any of the above examples, the manipulation surface may define an angle, relative to a plane on which the top of the neck is defined, of about 50 degrees.

Additionally or alternatively to any of the above examples, the inner shape of the collar may be circular on one side and oval on the other, the oval side corresponding to the manipulation surface.

A third illustrative and non-limiting example takes the form of method of cleaning excess loose powder from an applicator, the method using a cosmetic container is as in any of the first and second illustrative and non-limiting examples (and additions or alternatives thereto), the cosmetic container having a loose powder product therein, the method comprising: removing the cap from jar; placing the applicator in the loose powder product to receive at least some of the loose powder product; removing excess loose powder product and/or distributing the loose powder product on the brush using the manipulation surface until desired amount and/or distribution of the loose powder product is obtained; and applying the loose powder product on a body part. In such a method, the applicator may be a cosmetic makeup brush, a dotfoot application, or any other suitable applicator adapted for use with the loose powder.

This overview is intended to provide an introduction to the subject matter of the present patent application. It is not intended to provide an exclusive or exhaustive explanation of the invention. The detailed description is included to provide further information about the present patent application.

BRIEF DESCRIPTION OF DRAWINGS

In the drawings, which are not necessarily drawn to scale, like numerals may describe similar components in different views. Like numerals having different letter suffixes may represent different instances of similar components. The drawings illustrate generally, by way of example, but not by way of limitation, various embodiments discussed in the present document.

Figure 1 is a perspective view of an illustrative collar insert.

Figure 2A is an exploded top view of an illustrative cosmetic jar container including a collar with a manipulation surface.

Figure 2B is another exploded view of a cosmetic jar container.

Figure 3A is an illustrative view of the collar and manipulation surface from the bottom to top view perspective.

Figure 3B is an illustrative view of the collar insert from the top to bottom view perspective.

Figure 4 is an illustrative view of the collar and manipulation surface including the cosmetic jar.

Figure 5 is an illustrative view of the cap and cosmetic jar side by side.

Figure 6A is an illustrative cross-section view of the cosmetic jar and collar.

5 Figure 6B is another illustrative cross-sectional view of the cosmetic jar and collar.

Figure 7 is an illustrative view of the cosmetic jar container with the cap attached.

Figure 8 shows an illustrative brush that may be used in some embodiments.

10

DETAILED DESCRIPTION

The following description should be read with reference to the drawings wherein the like reference numerals indicated like elements throughout several views. The description and drawings show several embodiments which are meant to be
15 illustrative in nature.

The present invention provides a cosmetic jar and a method which utilizes an applicator within the cosmetic jar for controlling the desired amount of cosmetics to be used on an application surface. The application surface, as used herein, includes one's skin, hair, nails, etc. and other suitable body parts. For example, the applicator
20 may be used to apply cosmetics to one's face, including the eyes, cheeks, mouth, etc. For purposes of providing a manipulation surface on which the applicator may be manipulated after obtaining a quantity of product from within the jar, a collar is provided.

Figure 1 is a perspective view of the collar 20. The collar 20 as shown is
25 generally circular in shape and includes a manipulation surface 22. The collar 20 has an upper rim 21 which defines an opening thereof. The manipulation surface 22 may be used to sweep clean the excess loose powder from an applicator, such as that shown in Figure 8, below. In the example, the manipulation surface 22 extends down toward a reservoir in a jar (shown below) from the collar upper rim 21. The
30 manipulation surface 22 is preferably a flat surface but may include ridges, bumps, and/or a textured surface or region. A user can, after inserting an applicator or brush into a jar, use the manipulation surface to scrape, rub, tap or otherwise manipulate a brush to remove excess product which is then captured in the jar, avoiding the waste and mess of doing such steps on a separate surface. A user may, in addition or instead

of removing excess product, use the manipulation surface to distribute the powder product on the applicator.

The collar 20 includes an inner side wall 23 that extends about an extent of the circumference thereof. As can be appreciated, the manipulation surface extends out
5 away from the inner side wall 23. In general, the collar 20 may be formed as a single piece by molding, though other processes may be used, and multiple pieces may be assembled, if desired. The inner shape of the collar 20 may be circular on one side and oval on the other, as illustrated in Figures 3A-3B, below, wherein the manipulation surface 22 is on the oval side.

10 On one portion of the collar 20, the inner side wall 23 extends straight down from the upper rim 21 and on a second portion of the collar, the manipulation surface 22 extends downward at an angle toward the reservoir. While the collar rim extends around 360 degrees, the manipulation surface extends about only a portion of the circumference of the collar 20. For example, the manipulation surface 22 may extend
15 around about 90 to 270 degrees of the collar upper rim 21 in some examples. In one embodiment, the collar extends around about 180 degrees of the collar upper rim 21, with the remainder taken up by the inner side wall 23.

The collar 20 may be permanently affixed to the neck 16 of the cosmetic jar, such as by the use of adhesive. Alternatively, the collar 20 may be removable for
20 example, to better facilitate refill of the loose powder product.

Figure 2A is an exploded view from a top perspective of an illustrative cosmetic jar container 10 including a collar 20 with a manipulation surface 22. Figure 2B is another exploded view of the cosmetic jar container 10, from a lower perspective. The cosmetic jar 10 includes a main body 15 and a neck 16. The
25 container also includes a screw cap 50 which is shown in Figures 2A-2B as a two part cap structure or assembly including an outer shell 40 and an inner lid 30.

The neck 16 includes external threading 11 for mating with internal threading 13 (shown in Figure 5, below) of the inner lid 30. The outer shell 40 comprises a horizontal recess 32 and vertical protrusions 42 for mating with the horizontal
30 protrusion 35 of the inner lid 30 and vertical recess 45 of the outer shell 40, respectively. The horizontal protrusions/recesses and vertical protrusions/recesses are configured to secure the outer shell 40 and inner lid 30 together.

Figures 3A and 3B are illustrative views of the collar 20 and manipulation surface 22 from below (Figure 3A) and above (Figure 3B). As shown, the collar 20

may be of a circular shape. The manipulation surface 22 may be of a symmetrical crescent or concave shape to extend less than half way of the diameter of the collar 20. In an alternative example, the manipulation surface 22 may be flat/straight, rather than concave. In addition, the manipulation surface 22 may be constructed to extend
5 radially downward towards the cosmetic product within a reservoir 18. The manipulation surface 22 may be smooth in some example. In other examples, one or more of bumps, texture, ridges or other surface features may be provided if desired.

Figure 4 is an illustrative view of the collar 20 and manipulation surface 22 as placed on a cosmetic jar 10. The cosmetic jar 10 is shown as being circular, however,
10 in other examples, the jar may have an oval, conical, or spherical shape, or may have a polygonal or irregular shape. The neck 16 includes external threading 11 to secure to a cap; in alternative examples, a snap fit structure may be used, or any other suitable coupling.

As shown, the collar 20 is placed on the neck 16. A loose powder or other
15 cosmetic product may be stored within a reservoir 18 or cavity defined at least in part by the neck 16 which is located on the upper portion of the housing 15. The neck 16 has an opening with a diameter. In some illustrative examples, the manipulation surface 22 extends inward from the neck 16 over about 10% to about 25% of the diameter of the neck 16. In an embodiment, the manipulation surface extends inward
20 about 15% of the diameter of the neck 16.

In some examples, the manipulation surface 22 extends inward from the neck 16 about 15% to about 50% of the radius of the neck. In an embodiment, the manipulation surface extends inward to about 30% of the radius of the neck.

If desired, for additional air-tight sealing a gasket or O-Ring may be provided
25 on the collar 20 or integrated therein. In one example, the collar 20 may itself be formed of a soft or elastomeric material that enhances a seal that can be formed by tightening a lid thereon.

Figure 5 is an illustrative view of the screw cap 50 and cosmetic jar 10 side by side. The screw cap 50 maybe secured to the cosmetic jar container 10 by interaction
30 of the external threads 11 on the neck of the cosmetic jar 10 with internal threads 13 on the screw cap 50. The screw cap 50 may include an external window 26 in the upper region of the screw cap 50 through which contents of the cosmetic jar 10 may be observed. The external window 26 made be made of any transparent or semi-transparent material such as plastic or glass. The screw cap 50 includes an internal

threading 13 on the inner surface thereof. This example shows threading; tab and slot, snap fit, or hinged opening/closing may be provided as alternatives.

Figures 6A and 6B are cross-sectional views of the cosmetic jar container 10 and the collar 20. The manipulation surface 22 defines an angle relative to a plane on which the top of the neck 16 is defined as shown at 70. In some examples, angle 70 may be in the range of about 30 to about 65 degrees in some examples. In an embodiment, angle 70 is in the range of about 50 degrees.

Figure 7 is an illustrative view of the cosmetic jar container with the cap attached. The screw cap 50 may be removed by applying a twisting force in a second direction, opposite the first direction, between the cosmetic jar container 10 and the screw cap 50.

The cosmetic jar container 10, screw cap 50, collar 20, and manipulation surface 22 as shown and described above may be made of any suitable clear or colored material such as, for example, thermoplastic elastomer (TPE), low density polyethylene (LDPE), synthetic polymer, partially of a resin such as, for example, acrylonitrile butadiene styrene (ABS), styrene acrylonitrile (SAN), pentachlorothioanisole (PCTA), polypropylene (PP), polyethylene (PE), polyethylene terephthalate (PET, PETE, PETG), polyurethane, plastic, rubber, silicone, nylon, ceramic, glass, metal, or composite material, and/or combinations thereof. The term "plastic" to mean any synthetic resin suitable for the purpose such as polymethyl methacrylate (PMMA) or glass reinforced polypropylene (PPG) clear thick walled plastic. If glass, the glass jar may be double walled. Moreover, various elements may be made of any combination of substantially clear, substantially opaque, and/or translucent materials. Natural materials as wood, stone or leather may be used as well for decorative or other purposes.

Figure 8 shows an illustrative brush that may be used in some embodiments. The brush 100 includes a handle 102, ferrule 104, and bristles 106. The design shown may be typical of a brow brush, which can be used with loose powder products to be stored in a cosmetics jar including a collar as shown above. Other brushes and brush types may be used, as well as other applicators of various types. For example, a user may apply a cosmetic product by inserting the brush 100 through a collar 20 as shown above into the reservoir of a cosmetic jar 10 to obtain a quantity of product on the bristles 106. The user can then withdraw the brush 100 and use the manipulation surface 22 of the collar 20 to remove excess product and/or distribute product on the

bristles 106 of the brush 100 by scraping, rubbing, tapping or otherwise maneuvering the brush 100 with the bristles against the manipulation surface 22 of collar 20. The user then applies the product to an application surface, such as the eyebrows, and may repeat the process until a desired look or effect is had.

5 In the event of inconsistent usages between this document and any documents so incorporated by reference, the usage in this document controls. In this document, the terms “a” or “an” are used, as is common in patent documents, to include one or more than one, independent of any other instances or usages of “at least one” or “one or more” unless the content clearly dictates otherwise. Moreover, in the following
10 claims, the terms “first,” “second,” and “third,” etc. are used merely as labels, and are not intended to impose numerical requirements on their objects. The above description is intended to be illustrative, and not restrictive.

 As used in the above description and the appended claims, the term “or” is
15 generally employed in its sense including “and/or” unless the content clearly dictates otherwise.

 Relative terms such as “front”, “back”, “side”, “top”, “bottom”, variants thereof, and the like, may be generally be considered with respect to the positioning, direction, and/or operation of various elements relative to a user and/or other components of the device. It is to be understood that relative terms are not intended to be limiting and
20 are only exemplary.

 The above detailed description should be read with reference to the drawings in which similar elements in different drawings are numbered the same. The drawings, which are not necessarily to scale, show, by way of illustration, specific embodiments in which the invention can be practiced. These embodiments are also
25 referred to herein as “examples.” Such examples can include elements in addition to those shown or described. However, the present inventors also contemplate examples in which only those elements shown or described are provided. Moreover, the present inventors also contemplate examples using any combination or permutation of those elements shown or described (or one or more aspects thereof), either with respect to a
30 particular example (or one or more aspects thereof), or with respect to other examples (or one or more aspects thereof) shown or described herein. For example, the above examples (or one or more aspects thereof) may be used in combination with each other. Other embodiments can be used, such as by one of ordinary skill in the art upon reviewing the above description.

The Abstract is provided to comply with 37 C.F.R. §1.72(b), to allow the reader to quickly ascertain the nature of the technical disclosure. It is submitted with the understanding that it will not be used to interpret or limit the scope or meaning of the claims.

5 Although the invention has been described with reference to exemplary embodiments, it is not limited thereto. Those skilled in the art will appreciate that numerous changes and modifications may be made to the preferred embodiments of the invention and that such changes and modifications may be made without departing from the true spirit of the invention. It is therefore intended that the appended claims
10 be construed to cover all such equivalent variations as fall within the true spirit and scope of the invention.

WHAT IS CLAIMED IS:

1. A container for storing a cosmetic product comprising:
 - a cosmetic jar having a reservoir for containing the product and a neck on an upper portion thereof with an upper end having an opening for accessing product in the reservoir;
 - a collar fitted to the upper end of the neck, the collar having an upper rim defining an opening therethrough and manipulation surface extending down into the reservoir from the upper rim along a portion of the opening; and
 - a cap configured to couple with the cosmetic jar.

2. A cosmetic container comprising:
 - a jar having a body defining a reservoir and having a neck allowing access to product in the reservoir;
 - a cap configured for coupling to the jar; and
 - a collar on the neck of the jar having an upper rim and a manipulation surface extending down from the upper rim defining a curved inner edge at a bottom edge thereof such that on one portion of the collar, an inner sidewall extends straight down from the rim and on a second portion of the collar, the manipulation surface extends downward at an angle towards the reservoir, such that the manipulation surface allows a user to scrape, rub or tap a brush thereon.

3. The cosmetic container as in either of claims 1 or 2, wherein the rim of the collar comprises an inner side wall that extends into the jar, wherein the manipulation surface of the collar projects inward from the side wall.

4. The cosmetic container as in either of claims 1 or 2, wherein the cap is a screw cap assembly comprising an inner lid having at least one horizontal protrusion and at least one vertical recess on its outer surface and an outer shell having at least one horizontal recess and at least one vertical protrusion on its inner surface, and the cap is assembled such that the horizontal protrusion and horizontal recess cooperate, and the vertical protrusion and vertical recess cooperate, to secure the inner lid and the outer shell together.

5. The cosmetic container of claim 3, wherein the inner part of the screw cap assembly comprises internal threading to mate with external threading of the jar neck.
6. The cosmetic container as in either of claims 1 or 2 wherein the cap includes a transparent or semi-transparent window on a top surface thereof to view the loose powder product in the reservoir.
7. The cosmetic container as in either of claims 1 or 2 wherein the collar rim extends around 360 degrees of the neck, wherein the manipulation surface extends around about 90 to about 270 degrees of the collar rim.
8. The cosmetic container as in either of claims 1 or 2 wherein the collar rim extends around 360 degrees of the neck, wherein the manipulation surface extends around about 180 degrees of the collar rim.
9. The cosmetic container as in either of claims 1 or 2 wherein the neck defines an opening having a diameter, wherein the manipulation surface extends inward from the neck over about 10% to about 25% of the diameter of the neck.
10. The cosmetic container as in either of claims 1 or 2 wherein the neck defines an opening having a diameter, wherein the manipulation surface extends inward from the neck over about 15% of the diameter of the neck.
11. The cosmetic container as in either of claims 1 or 2 wherein the neck defines an opening having a radius, wherein the manipulation surface extends inward from the neck over about 15% to about 50% of the radius.
12. The cosmetic container as in either of claims 1 or 2 wherein the neck defines an opening having a radius, wherein the manipulation surface extends inward from the neck over about 30% of the radius.
13. The cosmetic container as in either of claims 1 or 2 wherein the manipulation surface is generally concave.

14. The cosmetic container as in either of claims 1 or 2 wherein the manipulation surface is a flat surface from the top of the rim to its lower edge.
15. The cosmetic container as in either of claims 1 or 2 wherein the manipulation surface defines an angle, relative to a plane on which the top of the neck is defined, of about 30 to about 65 degrees.
16. The cosmetic container as in either of claims 1 or 2 wherein the manipulation surface defines an angle, relative to a plane on which the top of the neck is defined, of about 50 degrees.
17. The cosmetic container as in either of claims 1 or 2 wherein the inner shape of the collar is circular on one side and oval on the side of the manipulation surface.
18. A method of cleaning excess loose powder from an applicator, the method using a cosmetic container is as in any of the preceding claims, the cosmetic container having a loose powder product therein, the method comprising:
- removing the cap from jar;
 - placing the applicator in the loose powder product to receive at least some of the loose powder product;
 - removing excess loose powder product and/or distributing the loose powder product on the brush using the manipulation surface until desired amount and/or distribution of the loose powder product is obtained; and
 - applying the loose powder product on a body part.
19. The method of claim 18, wherein the applicator is a cosmetic makeup brush.

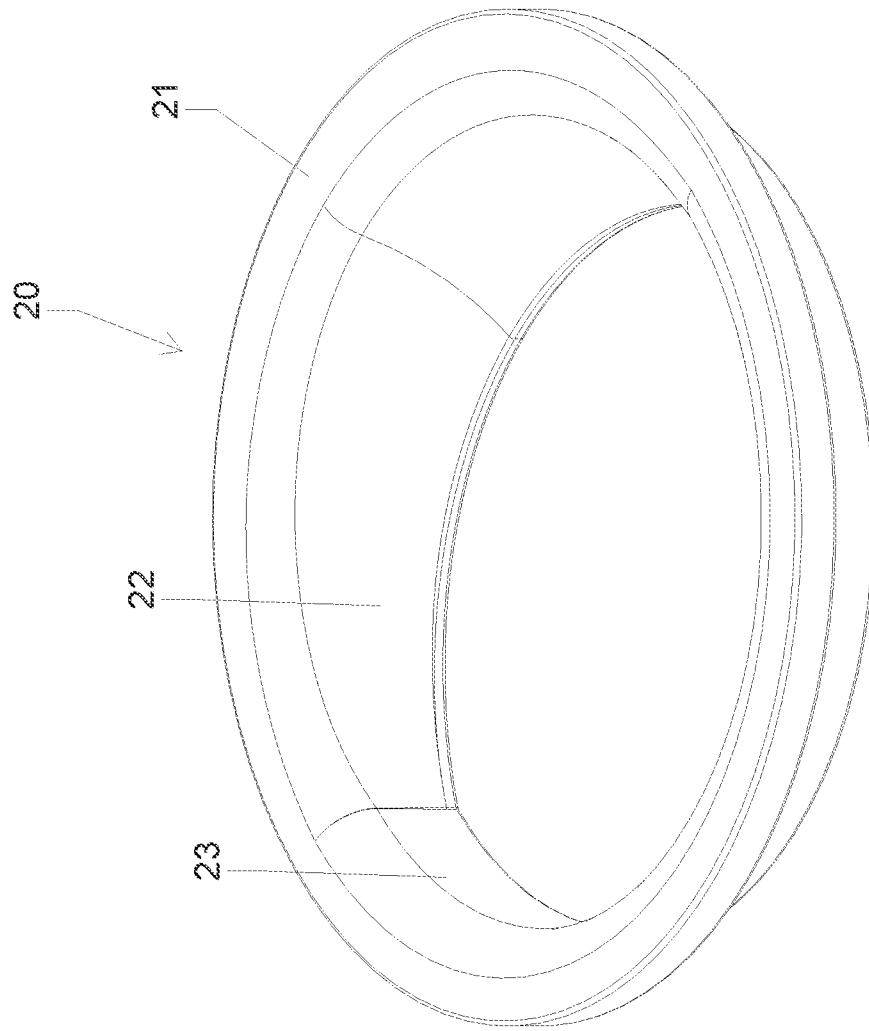


Figure 1

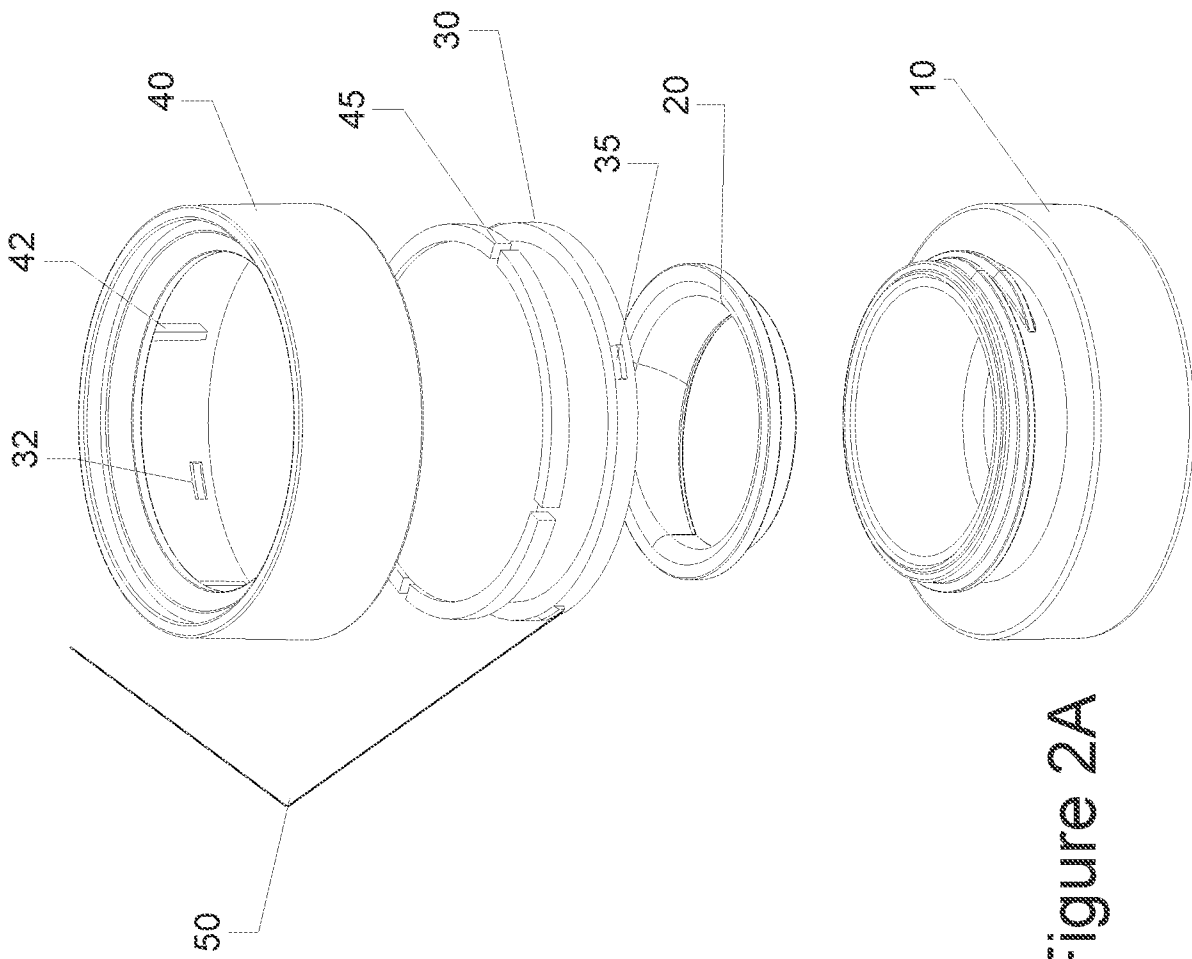


Figure 2A

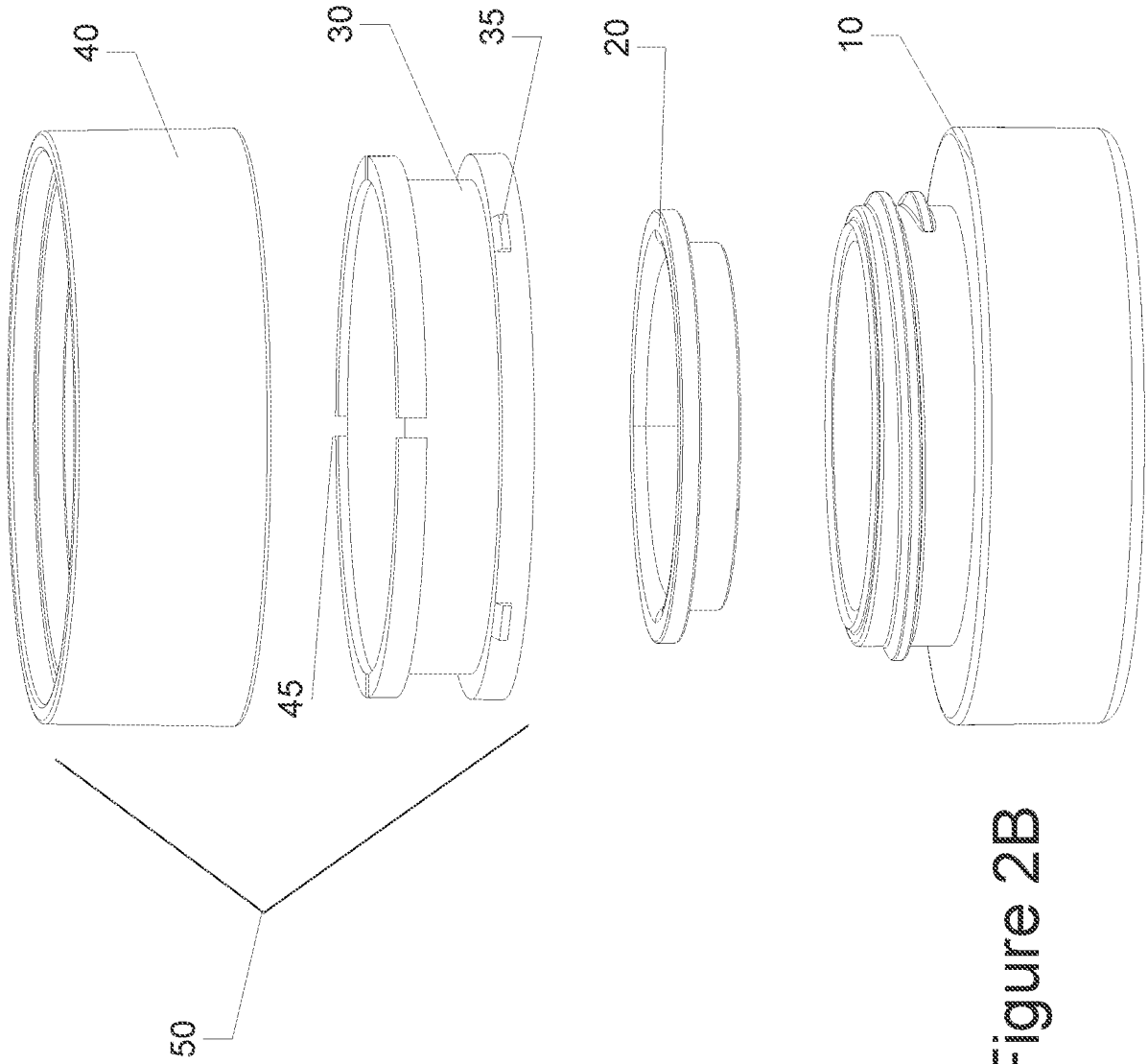


Figure 2B

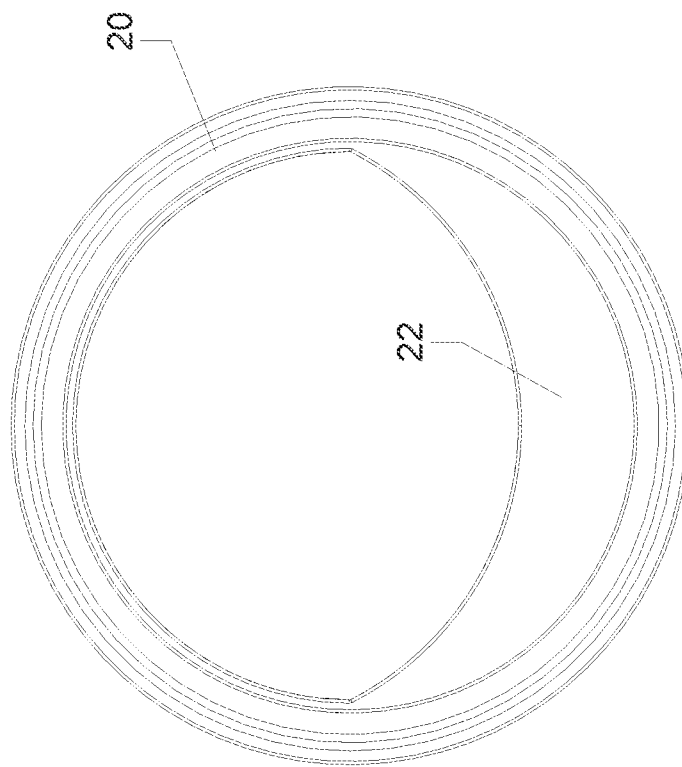


Figure 3A

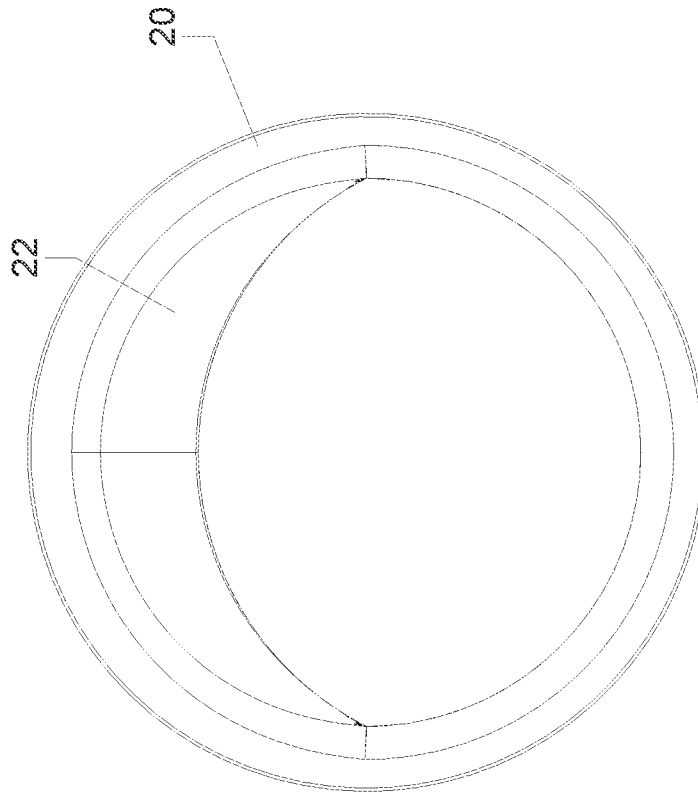


Figure 3B

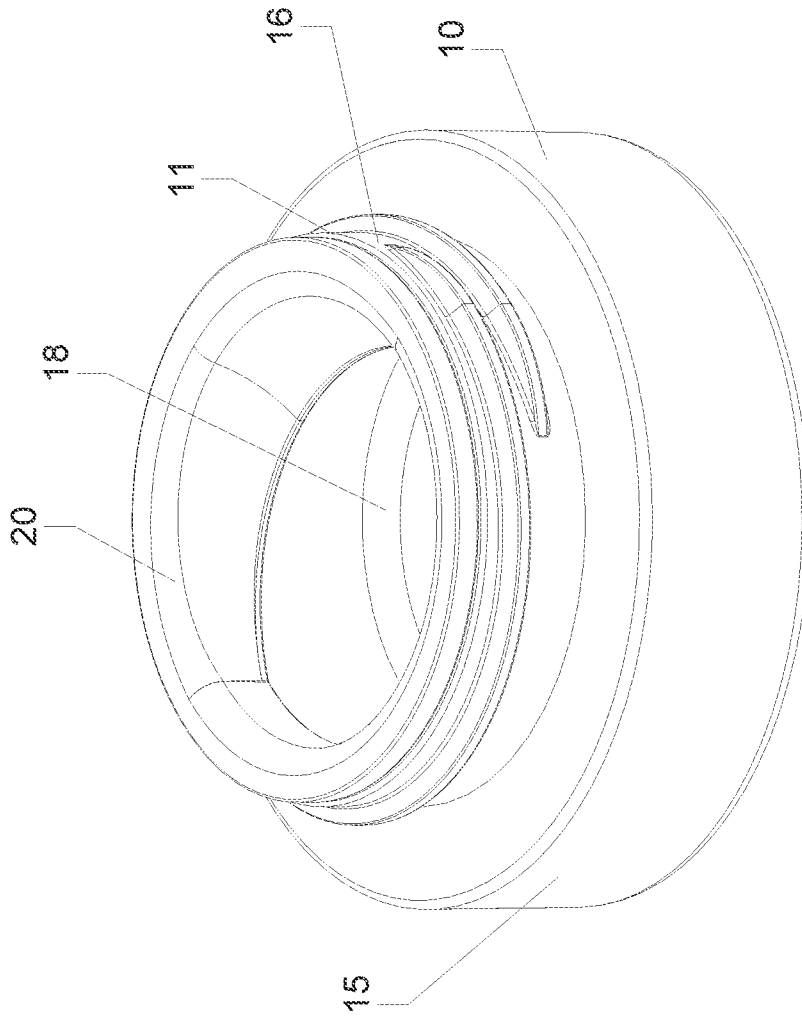


Figure 4

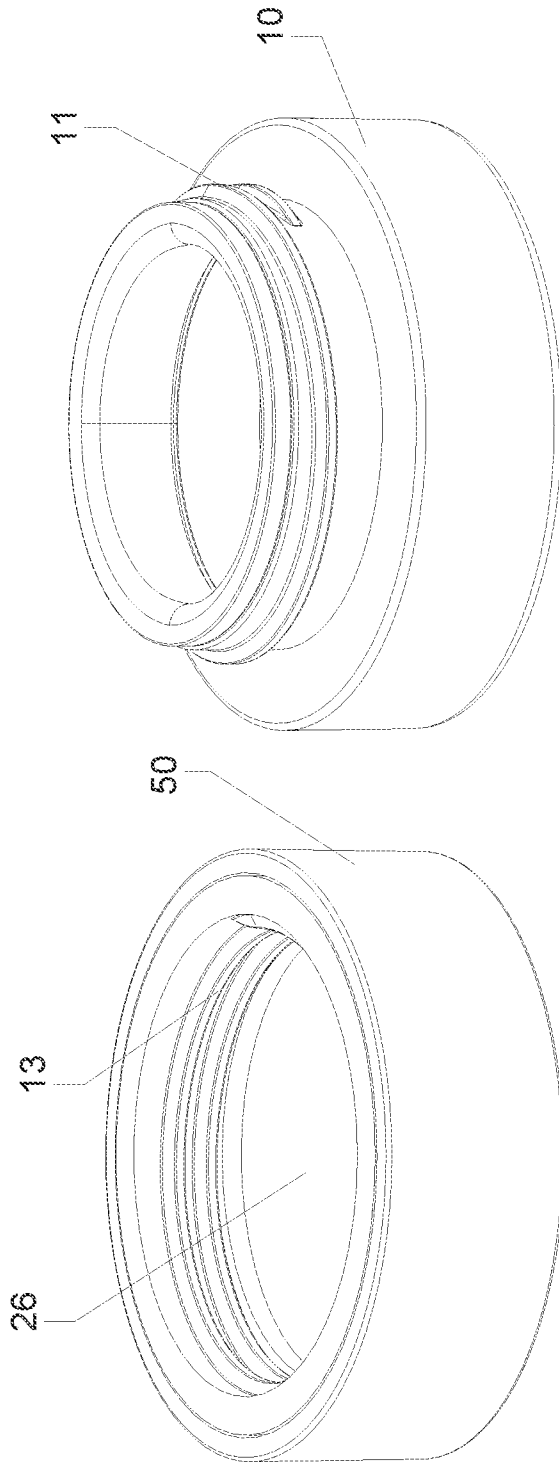


Figure 5

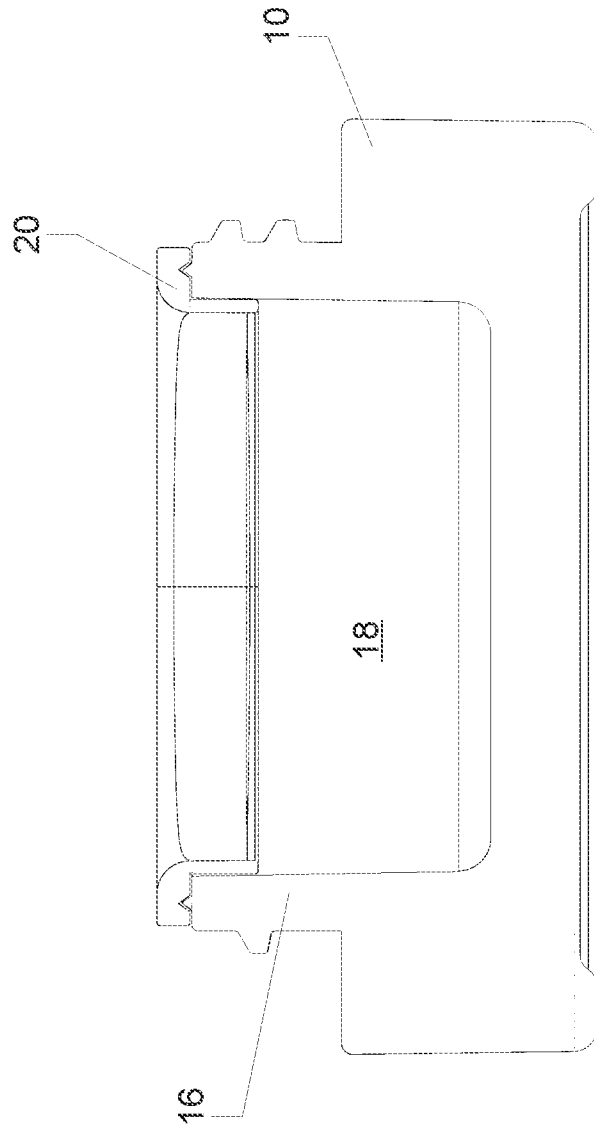


Figure 6A

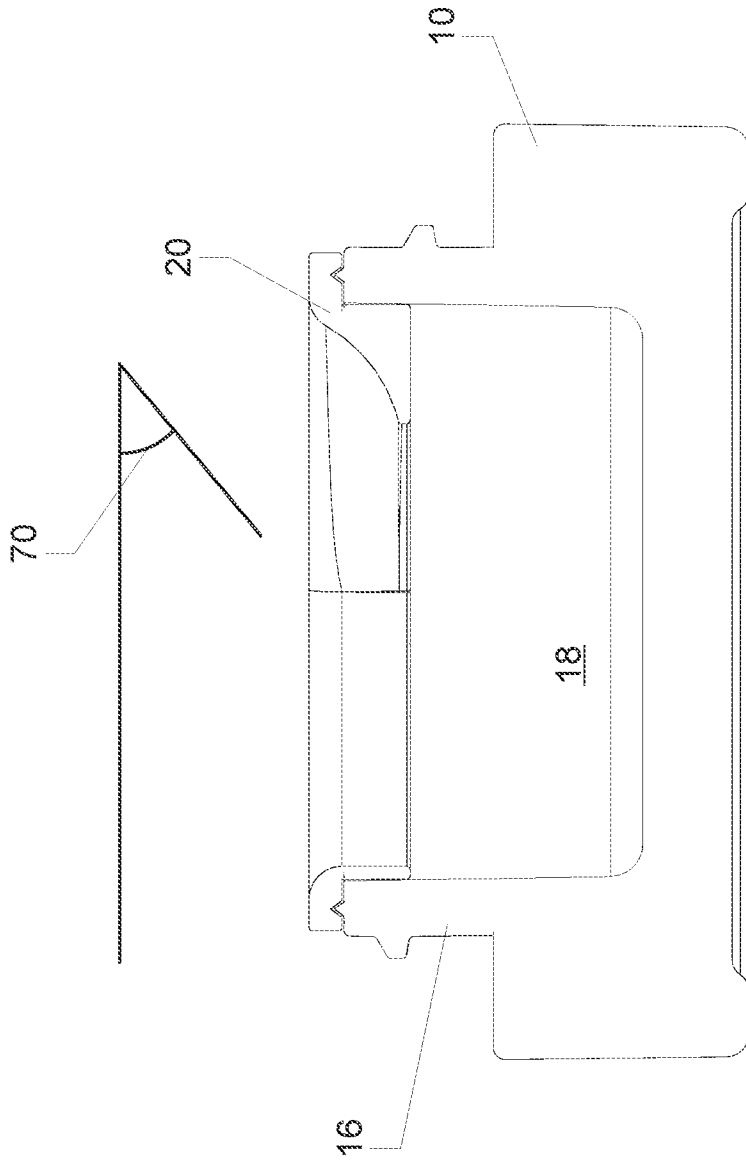


Figure 6B

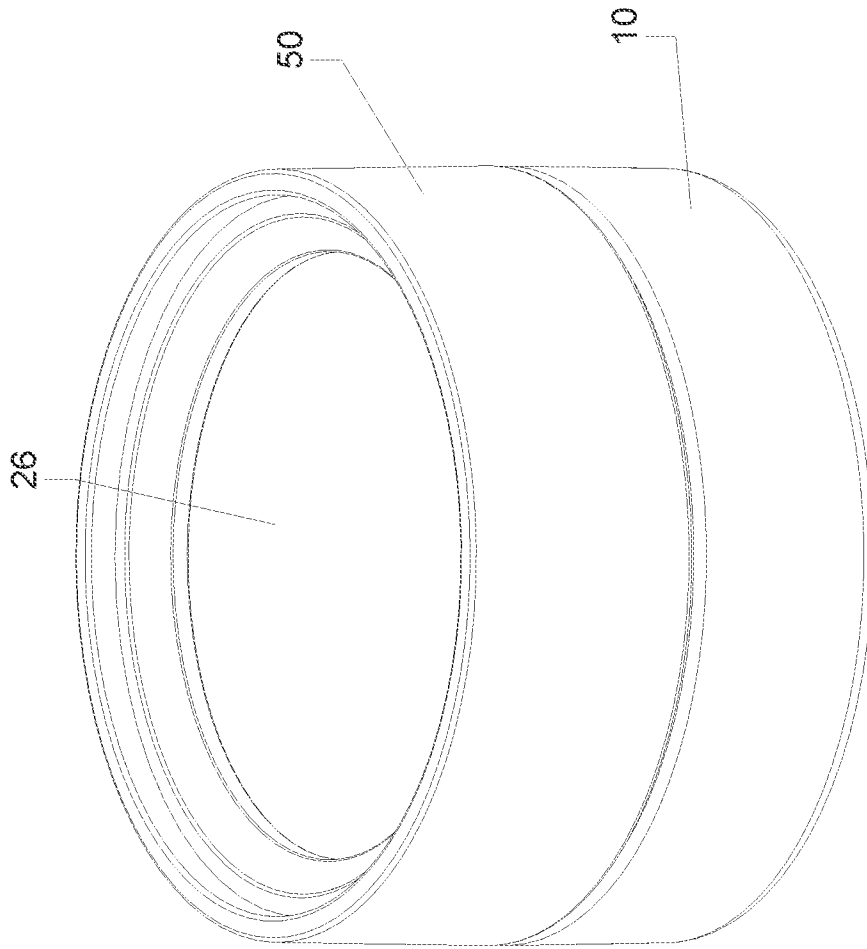


Figure 7

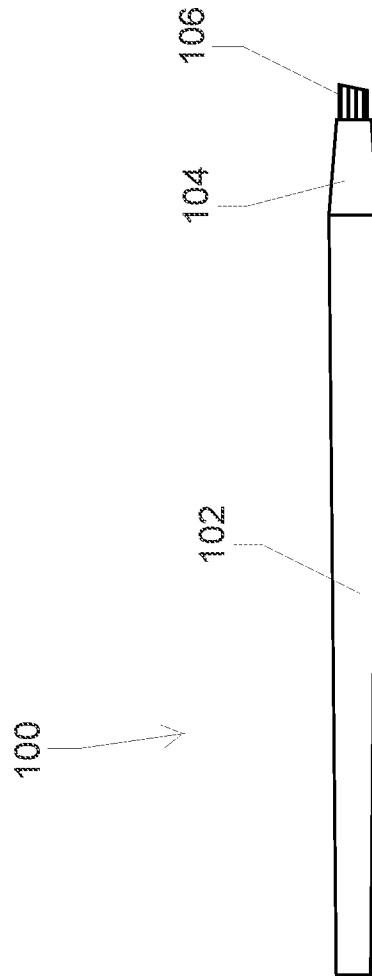


Figure 8

A. CLASSIFICATION OF SUBJECT MATTER**A45D 33/00(2006.01)i, A45D 33/34(2006.01)i**

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

B. FIELDS SEARCHEDMinimum documentation searched (classification system followed by classification symbols)
A45D 33/00; A45D 33/02; A45D 33/18; A45D 33/24; B05C 21/00; A45D 33/34Documentation 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
Japanese utility models and applications for utility modelsElectronic data base consulted during the international search (name of data base and, where practicable, search terms used)
eKOMPASS(KIPO internal) & keywords: cosmetic jar, collar, loose powder, applicator, excess product, rim, angle, slope, manipulation surface, lid, recess, protrusion**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	EP 2543275 A1 (IL MAKIAGE LTD.) 09 January 2013 See claims 1-5, 7; paragraphs [0002]-[0006], [0010], [0011], [0018], [0020], [0021], [0025]; and figures 1-3, 5d.	1-17
Y	US 2006-0226156 A1 (LUNDY, M. J. et al.) 12 October 2006 See claim 1; paragraphs [0003], [0007], [0017]-[0020], [0022]; and figures 1-3, 7.	1-17
Y	WO 2014-116027 A2 (NEST-FILLER CORPORATION CO., LTD.) 31 July 2014 See abstract; paragraph [40]; and figure 2.	4,5
Y	CN 2722696 Y (SANXING BRUSH MAKING CO., LTD.) 07 September 2005 See abstract; claim 1; and figures 1, 2.	6
A	US 2010-0012145 A1 (LOPRETE, W. J.) 21 January 2010 See the entire document.	1-17
A	KR 10-0602426 B1 (JO, J. W.) 20 July 2006 See the entire document.	1-17

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

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

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"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"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

26 June 2019 (26.06.2019)

Date of mailing of the international search report

26 June 2019 (26.06.2019)

Name and mailing address of the ISA/KR

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Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

2. Claims Nos.: 19
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
Claim 19 is unclear because it refers to multiple dependent claim 18 which does not comply with PCT Rule 6.4(a).

3. Claims Nos.: 18
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.

2. As all searchable claims could be searched without effort justifying an additional fees, this Authority did not invite payment of any additional fees.

3. As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:

4. No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- The additional search fees were accompanied by the applicant's protest and, where applicable, the payment of a protest fee.
- The additional search fees were accompanied by the applicant's protest but the applicable protest fee was not paid within the time limit specified in the invitation.
- No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/US2019/021394

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
EP 2543275 A1	09/01/2013	None	
US 2006-0226156 A1	12/10/2006	CA 2604825 A1 JP 2008-535655 A MX 2007012473 A WO 2006-110195 A2 WO 2006-110195 A3	19/10/2006 04/09/2008 10/03/2008 19/10/2006 03/01/2008
WO 2014-116027 A2	31/07/2014	KR 10-1283158 B1 WO 2014-116027 A3	05/07/2013 23/10/2014
CN 2722696 Y	07/09/2005	None	
US 2010-0012145 A1	21/01/2010	AU 2009-271259 A1 AU 2009-271259 B2 CA 2730492 A1 CA 2730492 C CN 102098942 A CN 102098942 B EP 2303058 A2 EP 2303058 B1 ES 2422266 T3 JP 2011-528264 A JP 5183805 B2 KR 10-1248687 B1 KR 10-2011-0033857 A US 8132578 B2 WO 2010-008941 A2 WO 2010-008941 A3	21/01/2010 22/11/2012 21/01/2010 10/09/2013 15/06/2011 27/11/2013 06/04/2011 29/05/2013 10/09/2013 17/11/2011 17/04/2013 01/04/2013 31/03/2011 13/03/2012 21/01/2010 25/03/2010
KR 10-0602426 B1	20/07/2006	None	