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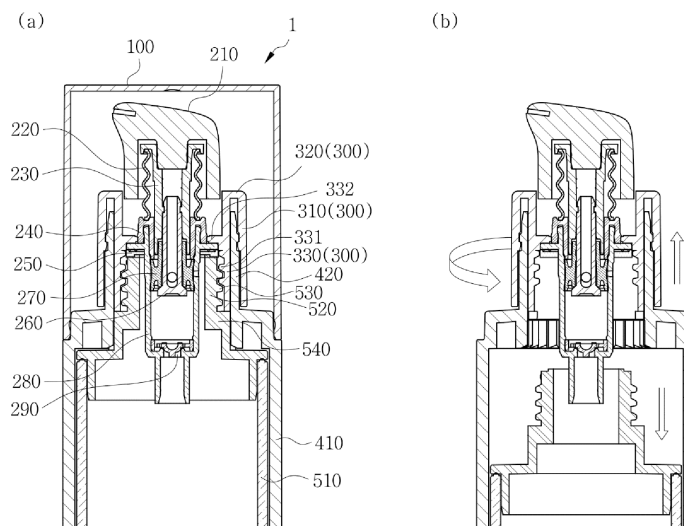
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(54) **CONTENT CONTAINER ENABLING INNER CONTAINER TO BE SEPARATED FROM OUTER CONTAINER BY ROTATING DECORATIVE MEMBER**

(57) Provided is a content container according to an embodiment of the present invention. The content container comprises an outer container; an inner container accommodating content and configured to be accommodated in the outer container; and a decorative member configured to be separably coupled to the inner container

so as to couple the inner container to the outer container, and supported by the outer container, wherein the inner container is configured to be separable from the outer container based on rotation of the decorative member relative to the outer container.

[FIG. 3]



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Description**Technical Field**

- 5 [0001] The present invention relates to a content container, and more particularly, to a content container in which an inner container is separable from an outer container by rotation of a decorative member.

Background Art

- 10 [0002] Recently, various new refill structures that allow an inner container to be separated from an outer container and replaced when content is exhausted have been developed.

- [0003] Conventional refill containers require a complicated fastening structure in the process of separating the inner container and the outer container in order to add new content or replace the outer container, and accordingly, a user may experience difficulty in performing refilling. In addition, the complicated fastening structure causes the manufacturing process to become complicated and increases the number of parts. As a result, efficient use may become difficult, and limitations may also arise from an environmental perspective.

- 15 [0004] Furthermore, in order to facilitate the separation and fastening of the outer container and the inner container, the inner container has to be manufactured to match the shape of the outer container, and thus there are many restrictions on the shape of the inner container. Due to these limitations, conventional refill containers have a problem in that they cause restrictions in terms of product diversity.

- 20 [0005] Therefore, there is a need for research and development on a new refill structure that has excellent refilling convenience and is applicable to various types of products without restrictions on the shape of the inner container.

Disclosure

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Technical Problem

- [0006] An object of the present invention is to provide a content container in which an inner container can be separated from an outer container only by rotation of a decorative member.

- 30 [0007] The technical problems of the present invention are not limited to those mentioned above, and other technical problems not mentioned will be clearly understood by those skilled in the art from the description below.

Technical Solution

- 35 [0008] According to an embodiment of the present invention, there is provided a content container. The content container comprises an outer container; an inner container accommodating content and configured to be accommodated in the outer container; and a decorative member configured to be separably coupled to the inner container so as to couple the inner container to the outer container, and supported by the outer container, wherein the inner container is configured to be separable from the outer container based on rotation of the decorative member relative to the outer container.

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Advantageous Effects of Invention

- [0009] According to the present invention, the inner container can be separated from the outer container only by rotation of the decorative member, so that the process of replacing and refilling the content is very simple and easy. In addition, since the fastening structure for refilling is simple, there is an advantage in that the efficiency of the manufacturing process and cost efficiency can be improved.

- 45 [0010] In addition, since the present invention allows the inner container to be fastened to and separated from the outer container without restrictions on the shape of the inner container, the present invention is applicable to various types of containers. Accordingly, product diversity can be increased, and product differentiation can be achieved by flexibly applying the present invention according to the form and use of a product.

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Brief Description of Drawings

- 55 [0011] To more fully understand the drawings cited in the detailed description of the present invention, a brief description of each drawing is provided.

FIG. 1 is a perspective view of a content container according to an embodiment of the present invention.

FIG. 2 is an exploded view of a content container according to an embodiment of the present invention.

FIG. 3 is a cross-sectional view of a content container according to an embodiment of the present invention.

FIG. 4 is an exploded view of an inner container and a decorative member according to an embodiment of the present invention.

FIG. 5 is an exploded view of an outer container and a decorative member according to an embodiment of the present invention.

FIG. 6 is a view illustrating a use state of a content container according to an embodiment of the present invention.

Best Mode for Invention

[0012] According to an embodiment of the present invention, there is provided a content container. The content container comprises an outer container; an inner container accommodating content and configured to be accommodated in the outer container; and a decorative member configured to be separably coupled to the inner container so as to couple the inner container to the outer container, and supported by the outer container, wherein the inner container is configured to be separable from the outer container based on rotation of the decorative member relative to the outer container.

[0013] In addition, the inner container may be decoupled from the decorative member based on the rotation of the decorative member.

[0014] In addition, the outer container may have an opening formed at one side spaced apart from the decorative member, and the inner container may be configured to be separable from the outer container through the opening based on the rotation of the decorative member.

[0015] In addition, the decorative member may comprise a decorative member engagement portion configured to engage with the inner container.

[0016] In addition, the outer container may comprise an outer container body and an outer container neck extending from the outer container body, the inner container may comprise an inner container body corresponding to the outer container body, an inner container neck corresponding to the outer container neck, and an inner container engagement portion protruding from the inner container neck toward the decorative member and engaging with the decorative member engagement portion, and the decorative member may comprise an inner portion positioned between the outer container neck and the inner container neck, the decorative member engagement portion protruding from the inner portion.

[0017] In addition, the decorative member may comprise an outer portion positioned outside the outer container neck; and a connecting portion connecting the inner portion and the outer portion, wherein the connecting portion may be configured to be supported by the outer container neck.

[0018] In addition, the content container may further comprise a pump device configured to pump the content accommodated in the inner container and supported by an end portion of the inner container neck, wherein the inner container may protrude from the inner portion so as to be supported by the pump device.

[0019] In addition, the outer container may comprise an outer container guide protruding toward the inner container, and the inner container may comprise an inner container guide protruding toward the outer container so as to engage with the outer container guide in order to prevent rotation of the inner container relative to the outer container while the decorative member is rotated to separate the inner container.

[0020] In addition, the decorative member may be movable to a fixing position in which the decorative member is fixed to the inner container so as to prevent rotation relative to the outer container, and to a fixing release position spaced farther from the inner container than the fixing position so as to allow rotation relative to the outer container.

[0021] In addition, the decorative member may comprise a pair of fixing protrusions spaced apart from each other so as to form an insertion groove therebetween, the inner container may comprise an insertion protrusion protruding toward the insertion groove so as to be inserted into the insertion groove, and the decorative member may be positioned at the fixing position when the insertion protrusion is inserted into the insertion groove.

Mode for Invention

[0022] Hereinafter, exemplary embodiments according to the present invention will be described in detail with reference to the contents shown in the accompanying drawings. In addition, a method of configuring and using an apparatus according to an embodiment of the present invention will be described in detail with reference to the contents shown in the accompanying drawings. The same reference numerals or signs shown in the respective drawings denote parts or components that perform substantially the same function. Directions such as upper, lower, left, and right described below for convenience are based on the drawings, and the scope of the present invention is not necessarily limited to such directions.

[0023] Terms including ordinal numbers such as first, second, etc. may be used to describe various components, but the components are not limited by these terms. These terms are used only for the purpose of distinguishing one component from another component. For example, without departing from the scope of the present invention, a first component may be referred to as a second component, and similarly, a second component may also be referred to as a first component. The term "and/or" includes any one of a plurality of related listed items or a combination of a plurality of related listed items.

[0024] The terms used herein are used to describe the embodiments and are not intended to limit and/or restrict the present invention. Singular expressions include plural expressions unless the context clearly indicates otherwise. In the present specification, terms such as "comprise" or "have" are intended to specify the presence of features, numbers, steps, operations, components, parts, or combinations thereof described in the specification, and are not to be understood as precluding in advance the presence or addition of one or more other features, numbers, steps, operations, components, parts, or combinations thereof.

[0025] Throughout the specification, when a part is referred to as being connected to another part, this includes not only the case where the part is directly connected but also the case where the part is indirectly connected with another component interposed therebetween. In addition, when a part is referred to as comprising a component, this means that the part may further comprise another component rather than excluding another component, unless otherwise specifically stated.

[0026] FIG. 1 is a perspective view of a content container 1 according to an embodiment of the present invention. FIG. 2 is an exploded view of the content container 1 according to an embodiment of the present invention. In particular, FIG. 2 includes an enlarged view of the decorative member 300 as viewed from another angle and an enlarged view of the outer container neck 420 of the outer container 400.

[0027] Referring to FIGS. 1 and 2, the content container 1 may comprise a cap 100, a pump device 200, a decorative member 300, an outer container 400, and/or an inner container 500.

[0028] In an embodiment, the pump device 200, the decorative member 300, the outer container 400, and the inner container 500 may form a container assembly 200, 300, 400, and 500. The container assembly 200, 300, 400, and 500 may store content therein and discharge the content to the outside. More specifically, content may be accommodated in the inner container 500, and the pump device 200 communicating with the inside of the inner container 500 may be formed at one side of the container assembly 200, 300, 400, and 500 to discharge the content. The pump device 200 may be covered or exposed to the outside depending on a position of the cap 100, and may be configured to discharge the content to the outside of the container assembly 200, 300, 400, and 500 according to a user's pressing (pumping operation) on the pump head 210. In this case, the content may be cosmetics, pharmaceuticals, quasi-drugs such as toothpaste, or the like, but may encompass all kinds of substances that can be discharged by a pumping operation.

[0029] As described above, the inner container 500 may be configured to accommodate content. More specifically, the inner container 500 may comprise an inner container body 510 in which a space is formed to accommodate content, and an inner container neck 520 extending from the inner container body 510. As shown in FIG. 2, the inner container neck 520 may have a smaller cross-sectional area than the inner container body 510. The inner container neck 520 may have an opening formed at one side so as to accommodate content in the inner container body 510 or to accommodate at least a part of the pump device 200. For example, as shown in FIG. 2, an opening may be formed at an upper side of the inner container neck 520. A lower portion of the inner container body 510 may cover the space accommodating the content so as to prevent the content from being discharged to the outside of the inner container 500.

[0030] In an embodiment, the inner container 500 may further comprise a disk (not shown) disposed inside the space provided to accommodate content and moving upward as the content is discharged. The disk pushes the content upward as the content stored in the space is exhausted, and specifically, maintains a state of being in close contact with the inner wall of the space, and may rise correspondingly when the volume of the content in the space decreases as the content is discharged. This type of content container 1 may be referred to as an airless type. The airless-type content container 1 may be characterized in that the pump device 200 does not have a separate tube for sucking content. Meanwhile, the embodiment of the present invention is not limited to the airless type, and is still applicable to a type in which a tube is formed in the pump device 200.

[0031] In an embodiment, the inner container 500 may be formed in various shapes without limitation, such as a circular shape, a quadrangular shape, an elliptical shape, a cylindrical shape, a quadrangular prism, or a conical shape.

[0032] The outer container 400 may be configured to accommodate the inner container 500. That is, the inner container 500 may be configured to be accommodated inside the outer container 400. The outer container 400 may have a shape corresponding to the inner container 500. For example, as shown in the drawings, the inner container 500 may have a substantially cylindrical shape, and the outer container 400 may have a cylindrical shape corresponding thereto. The outer container 400 may comprise an outer container body 410 corresponding to the inner container body 510 and an outer container neck 420 corresponding to the inner container neck 520. That is, the outer container neck 420 may extend from the outer container body 410. The outer container neck 420 may be formed to be smaller than the cross-sectional area of the outer container body 410. The outer container neck 420 may have an opening formed at one side so that at least a part of the pump device 200 can be inserted thereinto. An opening may be formed at an end portion of the outer container body 410 where the outer container neck 420 is not positioned, so that the inner container 500 can be inserted thereinto. In other words, the lower side of the outer container body 410 may be open. For example, openings may be formed respectively at the upper side of the outer container neck 420 and the lower side of the outer container body 410. Accordingly, the outer container 400 may be formed to communicate in the vertical direction. If only the outer container 400 and the inner container 500 are provided, the outer container 400 cannot support the inner container 500, and therefore a separate

configuration described below is required so that the inner container 500 can be prevented from being separated from the outer container 400 even when the inner container 500 is accommodated in the outer container 400.

[0033] The decorative member 300 may be provided to surround the outer container neck 420. The decorative member 300 may enhance the aesthetic appearance of the outer container neck 420. Furthermore, it may protect the outer container neck 420. For example, as shown in FIG. 2, the decorative member 300 may have a donut shape with a hole formed substantially at the center along the shape of the outer container neck 420. The decorative member 300 may be supported by the outer container 400, or may be supported by a pump member and/or the inner container 500 described below. Furthermore, the decorative member 300 may be coupled to the inner container 500 described above. Accordingly, the decorative member 300 is coupled to the inner container 500, and the decorative member 300 is directly or indirectly supported by the outer container 400, so that the inner container 500 and the outer container 400 can be substantially prevented from being separated. This will be described in more detail in the description referring to FIG. 3.

[0034] As described above, the pump device 200 may be configured to discharge the content accommodated in the inner container 500 to the outside of the content container 1. The pump device 200 may comprise a cylinder 280 positioned at a side facing the space in which the content of the inner container 500 is accommodated. When the pump head 210 of the pump device 200 is pressed, the piston rod 260 (FIG. 3) positioned therein moves so that the content can move toward the pump head 210. The pump device 200 may be supported by the inner container 500 or supported by the decorative member 300. In this case, the pump device 200 is coupled to the upper side of the inner container 500, and may discharge the content stored in the space to the outside by pressurization.

[0035] Hereinafter, the foregoing configuration will be described in more detail.

[0036] FIG. 3 is a cross-sectional view of the content container 1 according to an embodiment of the present invention. In particular, FIG. 3(a) shows that the inner container 500 is coupled to the outer container 400 of the content container 1. FIG. 3(b) shows that the inner container 500 is separated from the outer container 400 of the content container 1.

[0037] Referring to FIG. 3, the configuration of the content container 1 will be described in more detail.

[0038] The pump device 200 may comprise a pump head 210 protruding outward, a stem 230 coupled to the pump head 210 so as to support the pump head 210, and/or an under cap 240 supporting the stem 230. Furthermore, the pump device 200 may comprise a piston rod 260 accommodated in the stem 230 and/or a cylinder 280 in which one end of the piston rod 260 is accommodated. The piston rod 260 may be supported by the inner container 500. The pump device 200 may comprise a ring portion 250 positioned between the piston rod 260 and the inner container neck 520.

[0039] For example, as shown in FIG. 3, the stem 230 is positioned below the pump head 210, and the under cap 240 may support the lower side of the stem 230. The under cap 240 may be supported by the cylinder 280 positioned below the under cap 240. The cylinder 280 may comprise an annular rib extending radially outward, and the inner container neck 520 may support, from below, the rib included in the cylinder 280. That is, the pump device 200 may be supported by the inner container. Furthermore, a support flange 332 described below may cover the annular rib included in the cylinder 280.

[0040] The pump device 200 may comprise an elastic member 220 that applies an elastic force to return the pump head 210 even when the pump head 210 is pressed. The elastic member 220 may be provided below the pump head 210. In this case, the piston rod 260 may be provided to communicate with the inside of the pump head 210. The piston rod 260 has a flow path formed therein so that content moves to the pump head 210, and an opening communicating with the flow path may be formed at an end portion of the piston rod 260 facing the space of the inner container 500. The end portion of the piston rod 260 may be accommodated in the cylinder 280 included in the pump device 200. One side of the cylinder 280 may be coupled to the under cap 240. The other side of the cylinder 280 may face the space in which the content of the inner container 500 is accommodated. In the internal space of the cylinder 280, the piston rod 260 may be positioned at one side, and a check valve 290 may be positioned at the other side. In this case, a seal cap 270 may be positioned between the piston rod 260 and the cylinder 280 to prevent the content from moving to the outside of the cylinder 280 due to the movement of the piston rod 260.

[0041] When the pump head 210 is pressed, the piston rod 260 moves toward the internal space of the cylinder 280, and at this time, the check valve 290 may close the opening of the cylinder 280 facing the inner container 500. The internal pressure of the cylinder 280 increases, and the content positioned inside the cylinder 280 may move outward past the pump head 210 through the opening of the piston rod 260. When the pressing on the pump head 210 is released, the piston rod 260 moves again in the direction in which the internal space of the cylinder 280 expands by the elastic force of the elastic member 220, whereby the internal space of the cylinder 280 is lowered in pressure, and the check valve 290 is moved so that the opening of the cylinder 280 facing the inner container 500 can be opened. Through the opened opening of the cylinder 280, the content may move into the internal space of the cylinder 280.

[0042] As described above, the decorative member 300 may be configured to be separably coupled to the inner container 500 so as to couple the inner container 500 to the outer container 400. The decorative member 300 may be supported by the outer container 400. Thereby, the inner container 500 may be coupled to the outer container 400 by the decorative member 300.

[0043] In this case, the inner container 500 may be configured to be separable from the outer container 400 based on the rotation of the decorative member 300 relative to the outer container 400. When the content is exhausted, the content

container 1 may be provided to be refilled with content again by replacing the inner container 500. In this case, the content of the content container 1 may be refilled by replacing the inner container 500 in which the content is exhausted with an inner container 500 having sufficient content. In this case, although not shown in the embodiment of the present disclosure, any manner in which the inner container 500 is separated when the decorative member 300 rotates relative to the outer container 400 is considered to be included in the present invention. For example, a configuration in which the inner container 500 is separated from the outer container 400 by gear connection according to the rotation of the decorative member 300 may also be regarded as an example.

[0044] More specifically, the coupling of the inner container 500 with the decorative member 300 may be released based on the rotation of the decorative member 300. The inner container 500 may be coupled to the outer container 400 according to the coupling with the decorative member 300. In other words, if the decorative member 300 were not provided, the inner container 500 could be provided as an object separated from the outer container 400. When the coupling between the decorative member 300 and the inner container 500 is released, there is no means for fixing the inner container 500 to the outer container 400, so that the inner container 500 may be in a state separable from the outer container 400. That is, the decorative member 300 may release the coupling with the inner container 500 by rotating relative to the outer container 400.

[0045] As described above, the outer container 400 may have an opening formed at one side spaced apart from the decorative member 300. The fact that the inner container 500 becomes separable from the outer container 400 based on the rotation of the decorative member 300 may mean that the inner container 500 is configured to be separable from the outer container 400 through the opening of the outer container 400.

[0046] In this case, the decorative member 300 may comprise a decorative member engagement portion 331 configured to engage with the inner container 500. For example, the decorative member engagement portion 331 may have a screw-thread shape. The inner container 500 may comprise an inner container engagement portion 530 protruding from the inner container neck 520 toward the decorative member 300 and engaging with the decorative member engagement portion 331. For example, the inner container engagement portion 530 may have a screw-thread shape.

[0047] More specifically, the decorative member 300 may comprise an inner portion 330 positioned between the outer container neck 420 and the inner container neck 520, the inner portion 330 from which the decorative member engagement portion 331 protrudes.

[0048] In this case, the decorative member 300 may comprise an outer portion 310 positioned outside the outer container neck 420. The outer portion 310 may cover the outer container neck 420. The decorative member 300 may have a connecting portion 320 connecting the inner portion 330 and the outer portion 310. For example, the connecting portion 320 may connect the upper end of the inner portion 330 and the upper end of the outer portion 310. The connecting portion 320 may be configured to be supported by the outer container neck 420. In other words, this may mean that the outer container neck 420 can be inserted into the space between the inner portion 330 and the outer portion 310, and the upper end of the outer container neck 420 can extend up to the connecting portion 320. While the decorative member 300 is rotated, the connecting portion 320 may be supported by the upper end of the outer container neck 420. Furthermore, while the decorative member 300 is rotated, the outer portion 310 and the inner portion 330 are each guided by the outer container neck 420, so that the rotation of the decorative member 300 can be guided.

[0049] In this case, the decorative member 300 may comprise a support flange 332 protruding from the inner portion 330 toward the pump device 200. As described above, the pump device 200 is configured to pump the content accommodated in the inner container 500, and may be supported by the end portion of the cylinder 280. Alternatively, the support flange 332 may be supported by the inner container 500. Therefore, while the decorative member 300 is rotated, the support flange 332 may be supported so as to be prevented from moving by the pump device 200.

[0050] In the above, the structure in which the inner container 500 is separated according to the rotation of the decorative member 300 has been described. However, in general, while the content container 1 is being used, the rotation of the decorative member 300 to separate the inner container 500 may cause an unexpected situation. To prevent this, the decorative member 300 may be provided to be rotatable only when the decorative member 300 is moved to a specific position.

[0051] That is, the decorative member 300 may be movable to a fixing position in which the decorative member 300 is fixed to the inner container 500 so as to prevent rotation relative to the outer container 400, and to a fixing release position spaced farther from the inner container 500 than the fixing position so as to allow rotation relative to the outer container 400. This will be described in more detail below.

[0052] Furthermore, while the decorative member 300 is rotated, since the decorative member 300 and the inner container 500 are coupled, the inner container 500 may also be rotated. However, in order for the decorative member 300 to be separated from the inner container 500, the decorative member 300 may need to be rotated relative to the inner container 500 rather than being rotated together with the inner container 500. Therefore, while the decorative member 300 is rotated relative to the outer container 400, the inner container 500 needs to be prevented from rotating. A structure for this will be described in more detail below.

[0053] FIG. 4 is an exploded view of the inner container 500 and the decorative member 300 according to an

embodiment of the present invention.

[0054] Referring to FIGS. 2 and 4, the inner container 500 may be prevented from rotating by the outer container 400 while the decorative member 300 is rotated.

[0055] The outer container 400 may comprise an outer container guide 440 protruding toward the inner container 500. For example, as shown in FIG. 2, the outer container guide 440 may have a shape such as gear teeth. The outer container guide 440 may extend in the circumferential direction. However, although the outer container guide 440 is depicted in FIG. 2 as extending over the entire circumferential direction, the present invention is not limited thereto, and the outer container guide 440 may also extend over a part of the circumferential direction. Furthermore, the outer container guide 440 may protrude from the outer container neck 420 toward the inner container body 510. The outer container guide 440 protrudes toward the inner container 500 while the inner container 500 is coupled to the outer container 400 by the decorative member 300, but may be prevented from protruding beyond the inner surface of the outer container neck 420. Accordingly, while the inner container neck 520 is accommodated in the outer container neck 420 along the inner surface of the outer container neck 420, the outer container guide 440 may be prevented from obstructing the movement of the inner container neck 520.

[0056] The inner container 500 may comprise an inner container guide 560 protruding toward the outer container 400 so as to engage with the outer container guide 440 in order to be prevented from rotating relative to the outer container 400 while the decorative member 300 is rotated to separate the inner container 500. In other words, as mentioned above, while the decorative member 300 is rotated, the inner container 500 needs to be fixed with respect to rotational movement in order to have a relative rotation with the decorative member 300. To this end, the inner container 500 may be fixed with respect to rotational movement relative to the outer container 400. Furthermore, while the decorative member 300 is rotated, the inner container 500 may be slid relative to the outer container 400 so as to move in a direction of being separated through the lower opening of the outer container 400. Therefore, the relationship between the inner container 500 and the outer container 400 may be a relationship in which, while the coupling of the inner container 500 with the decorative member 300 is released, the inner container 500 is prevented from rotating by the outer container 400 but is capable of sliding movement.

[0057] Additionally, since the outer container guide 440 may be positioned at the lower side of the outer container neck 420, it may be spaced apart from the decorative member 300. This may be because the decorative member 300 can be supported by the upper end of the outer container neck 420.

[0058] For example, as shown in FIG. 4, the inner container guide 560 may have a shape of gear teeth that engages with the outer container guide 440 having a gear-teeth shape. The inner container guide 560 may extend along the circumferential direction with a smaller length than the outer container guide 440. This is because, if the outer container guide 440 extends over the entire circumferential direction, the inner container guide 560 can be inserted into the outer container guide 440 when the inner container guide 560 has an arbitrary rotation angle, even if the inner container guide 560 extends over only a part of the circumferential direction.

[0059] The inner container guide 560 may be included in the inner container neck 520. More specifically, the inner container guide 560 may extend from the inner container body 510. For example, the inner container guide 560 may be positioned at the upper side of the inner container body 510, and the inner container engagement portion 530 may be positioned at the upper side of the inner container guide 560. This is because, since the decorative member 300 is positioned at the upper side of the outer container guide 440, the decorative member engagement portion 331 may be positioned at the upper side of the outer container guide 440, and the inner container guide 560 engaging with the outer container guide 440 may be positioned at a lower side relative to the inner container engagement portion 530 engaging with the decorative member engagement portion 331.

[0060] Furthermore, the decorative member 300 may comprise a pair of fixing protrusions 334 spaced apart from each other so as to form an insertion groove 335 therebetween. The fixing protrusions 334 may protrude toward the inner container body 510. The inner container 500 may comprise an insertion protrusion 550 protruding toward the insertion groove 335 so as to be inserted into the insertion groove 335. More specifically, the inner container 500 may comprise an inner container stepped portion 540 on which the inner container engagement portion 530 is formed, and the inner container stepped portion 540 may be formed to be stepped relative to the inner container 500. The insertion protrusion 550 may protrude from the inner container stepped portion 540 toward the decorative member 300. The decorative member 300 may be positioned at the fixing position when the insertion protrusion 550 is inserted into the insertion groove 335. When the decorative member 300 is moved away from the outer container 400 so that the insertion protrusion 550 is released from the insertion groove 335, the decorative member 300 may be positioned at the rotatable fixing release position.

[0061] FIG. 5 is an exploded view of the outer container 400 and the decorative member 300 according to an embodiment of the present invention.

[0062] Referring to FIG. 5, the decorative member 300 may be coupled to the outer container 400 so as to be rotatable relative to the outer container 400. As mentioned above, the decorative member 300 may be fitted onto the neck of the outer container 400.

[0063] The outer container neck 420 may comprise a rotation guide rib 430 protruding outward. The rotation guide rib 430 may extend in the circumferential direction of the outer container neck 420. The decorative member 300 may comprise a rotation guide groove 333 into which the rotation guide rib 430 is inserted. The rotation guide groove 333 may extend to correspond to the rotation guide rib 430 so as to accommodate the rotation guide rib 430. Therefore, the rotation guide groove 333 may extend along the circumferential direction of the decorative member 300. The rotation guide groove 333 may be formed on a side of the outer portion 310 facing the inner portion 330. Accordingly, while the decorative member 300 is rotated relative to the outer container 400, the rotation guide rib 430 is accommodated in the rotation guide groove 333 and rotated, whereby the rotation of the decorative member 300 can be guided.

[0064] The rotation guide rib 430 may be coupled to the rotation guide groove 333 by fitting coupling. Accordingly, when a force equal to or greater than a predetermined force is applied to move the decorative member 300 away from the outer container 400, the rotation guide rib 430 may be provided to be released from the rotation guide groove 333. When the inner container 500 is to be separated from the outer container 400, the decorative member 300 first needs to be moved in a direction away from the outer container 400, and thus the rotation guide rib 430 and the rotation guide groove 333 need to be provided so that the decorative member 300 can be moved. However, when the decorative member 300 is not moved, the rotation guide rib 430 may be fitted in the rotation guide groove 333 to such an extent as to prevent the decorative member 300 from being accidentally moved upward.

[0065] FIG. 6 is a view illustrating a use state of the content container 1 according to an embodiment of the present invention. In particular, FIG. 6(a) shows that the inner container 500 is separated from the outer container 400. FIG. 6(b) shows a refill container 2. FIG. 6(c) shows that a refill container cap 600 is separated from the refill container 2. FIG. 6(d) shows that the inner container 500 of the refill container 2 is inserted into the outer container 400.

[0066] Referring to FIG. 6, replacing the inner container 500 in which the content is exhausted will be described below.

[0067] The decorative member 300 may be moved in a direction away from the outer container 400 to move the decorative member 300 from the fixing position to the fixing release position. Accordingly, the decorative member 300 may be rotatable relative to the inner container 500.

[0068] While the decorative member 300 is rotated relative to the outer container 400, the coupling of the inner container 500 with the decorative member 300 is released, and the inner container 500 may be moved in a direction away from the decorative member 300. In this case, the inner container 500 is restricted from rotating relative to the outer container 400 and can be moved only in the sliding direction, so that while the decorative member 300 is rotated, the inner container 500 may move away from the decorative member 300 without rotating relative to the decorative member 300.

[0069] When the coupling between the decorative member 300 and the inner container 500 is released, the inner container 500 may be separated from the outer container 400 through the lower opening formed in the outer container 400.

[0070] A refill container 2 may be provided, and the refill container cap 600 may be rotated to open the inner container 500 included in the refill container 2. In this case, a thread may be formed on the inside of the refill container cap 600 so as to be configured to engage with the inner container engagement portion 530.

[0071] A new inner container 500 may be accommodated in the outer container 400 through the lower opening of the outer container 400. Thereafter, the decorative member 300 is rotated in the direction opposite to the direction for separating the inner container 500, so as to be coupled to the inner container 500. After the coupling with the inner container 500 is completed, the decorative member 300 is moved downward to be fixed.

[0072] As described above, the optimal embodiments have been disclosed in the drawings and the specification. Although specific terms are used herein, they are used only for the purpose of describing the present invention and are not used to limit the meaning or to restrict the scope of the present invention as set forth in the claims. Therefore, those skilled in the art will understand that various modifications and other equivalent embodiments are possible therefrom. Accordingly, the true technical protection scope of the present invention should be defined by the technical spirit of the appended claims.

(Explanations of Reference Numerals)

[0073]

1:	Content container	100:	Cap
200:	Pump device	210:	Pump head
220:	Elastic member	230:	Stem
240:	Under cap	250:	Ring portion
260:	Piston rod	270:	Seal cap
280:	Cylinder	290:	Check valve
300:	Decorative member	310:	Outer portion
320:	Connecting portion	330:	Inner portion

(continued)

331:	Decorative member engagement portion	332:	Support flange
333:	Rotation guide groove	334:	Fixing protrusion
335:	Insertion groove	400:	Outer container
410:	Outer container body	420:	Outer container neck
430:	Rotation guide rib	440:	Outer container guide
500:	Inner container	510:	Inner container body
520:	Inner container neck	530:	Inner container engagement portion
540:	Inner container stepped portion	550:	Insertion protrusion
560:	Inner container guide	2:	Refill container
600:	Refill container cap	200, 300, 400, 500:	Container assembly

Claims

1. A content container comprising:

an outer container;
an inner container accommodating content and configured to be accommodated in the outer container; and
a decorative member configured to be separably coupled to the inner container so as to couple the inner container to the outer container, and supported by the outer container,
wherein the inner container is configured to be separable from the outer container based on rotation of the decorative member relative to the outer container.

2. The content container of claim 1, wherein the inner container is decoupled from the decorative member based on the rotation of the decorative member.

3. The content container of claim 1, wherein the outer container has an opening formed at one side spaced apart from the decorative member, and
the inner container is configured to be separable from the outer container through the opening based on the rotation of the decorative member.

4. The content container of claim 1, wherein the decorative member comprises a decorative member engagement portion configured to engage with the inner container.

5. The content container of claim 4, wherein the outer container comprises an outer container body and an outer container neck extending from the outer container body,

the inner container comprises an inner container body corresponding to the outer container body, an inner container neck corresponding to the outer container neck, and an inner container engagement portion protruding from the inner container neck toward the decorative member and engaging with the decorative member engagement portion, and

the decorative member comprises an inner portion positioned between the outer container neck and the inner container neck, and the decorative member engagement portion protrudes from the inner portion.

6. The content container of claim 5, wherein the decorative member comprises:

an outer portion positioned outside the outer container neck; and
a connecting portion connecting the inner portion and the outer portion,
wherein the connecting portion is configured to be supported by the outer container neck.

7. The content container of claim 5, further comprising a pump device configured to pump the content accommodated in the inner container and supported by an end portion of the inner container neck,
wherein the inner container protrudes from the inner portion so as to be supported by the pump device.

8. The content container of claim 1, wherein the outer container comprises an outer container guide protruding toward

the inner container, and

the inner container comprises an inner container guide protruding toward the outer container so as to engage with the outer container guide in order to prevent rotation of the inner container relative to the outer container while the decorative member is rotated to separate the inner container.

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9. The content container of claim 1, wherein the decorative member is movable to:

a fixing position in which the decorative member is fixed to the inner container so as to prevent rotation relative to the outer container; and

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a fixing release position spaced farther from the inner container than the fixing position so as to allow rotation relative to the outer container.

10. The content container of claim 9, wherein the decorative member comprises a pair of fixing protrusions spaced apart from each other so as to form an insertion groove therebetween,

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the inner container comprises an insertion protrusion protruding toward the insertion groove so as to be inserted into the insertion groove, and

the decorative member is positioned at the fixing position when the insertion protrusion is inserted into the insertion groove.

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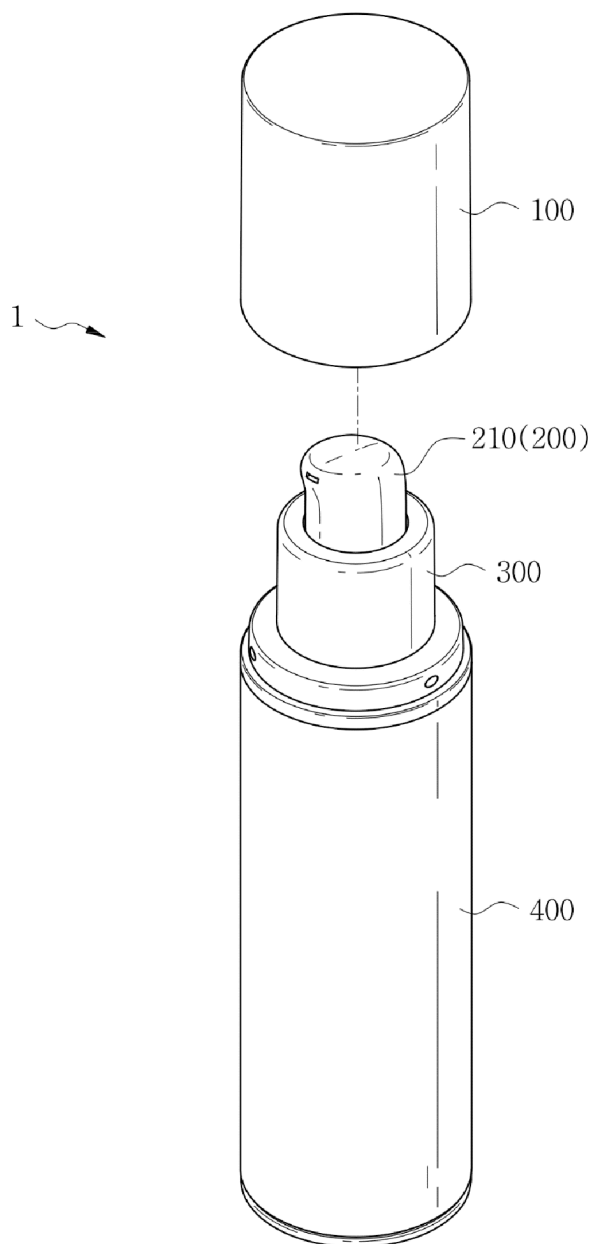
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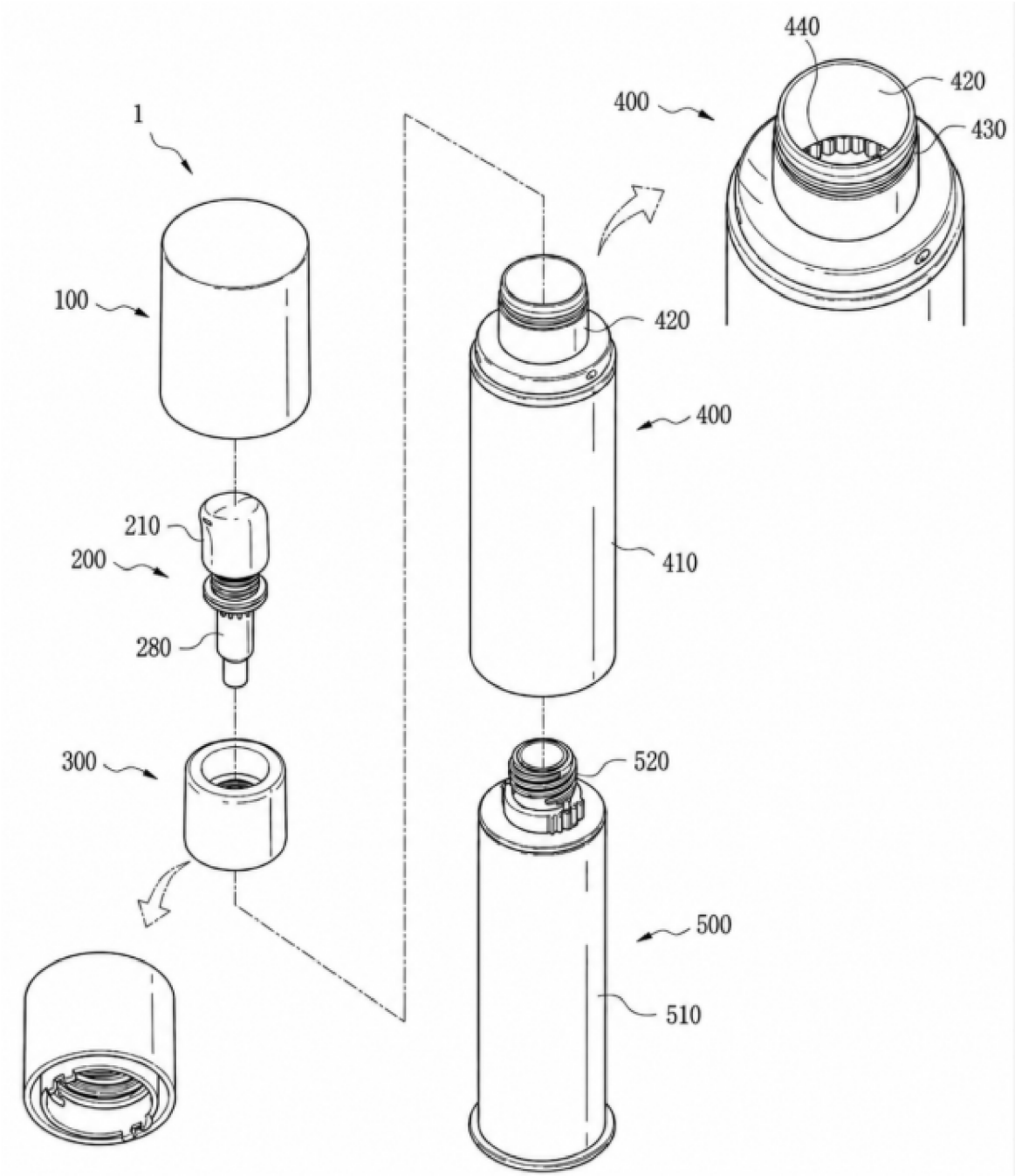
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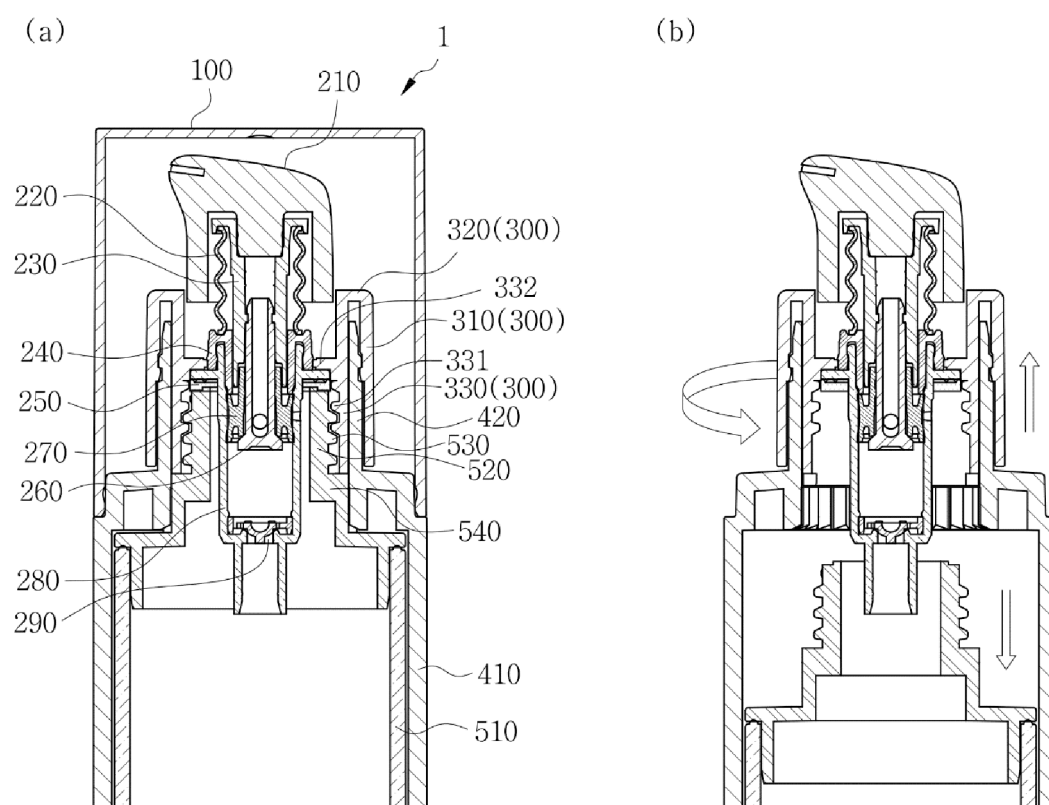
[FIG. 1]



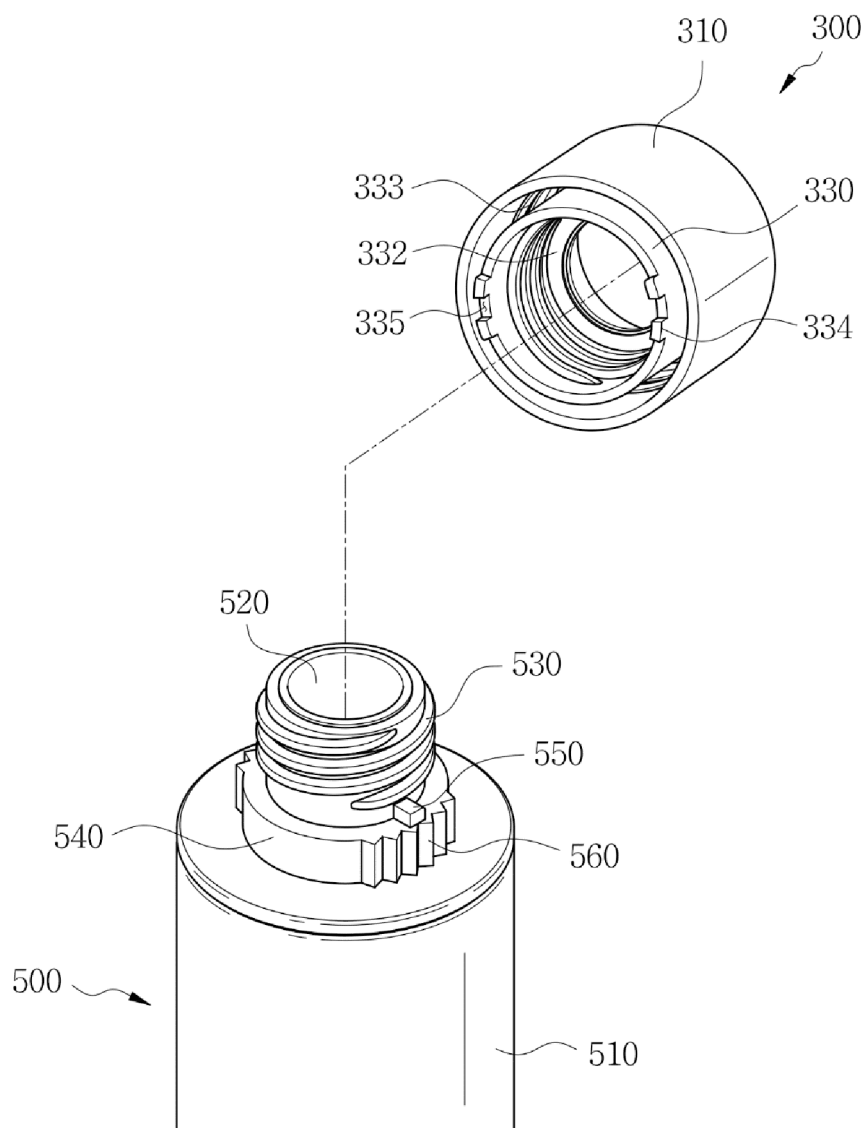
[FIG. 2]



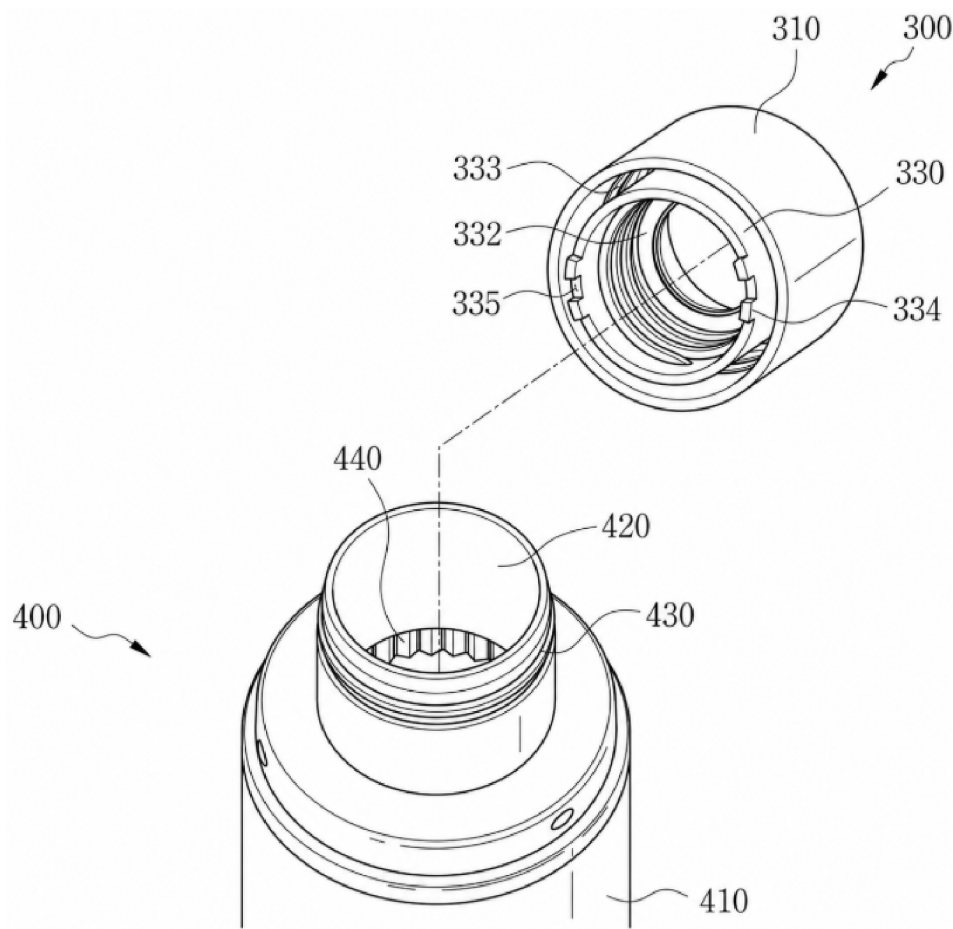
[FIG. 3]



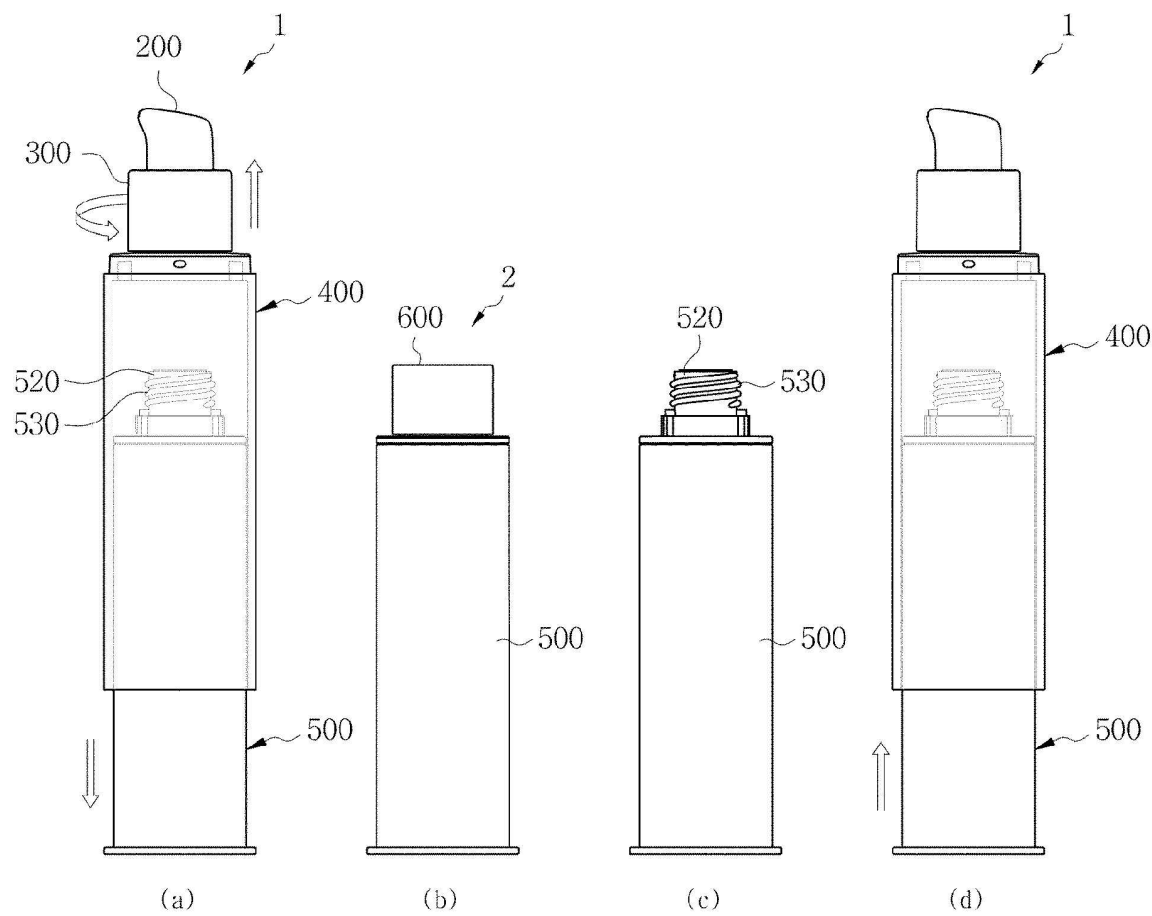
[FIG. 4]



[FIG. 5]



[FIG. 6]



INTERNATIONAL SEARCH REPORT

International application No.

PCT/KR2024/020818

A. CLASSIFICATION OF SUBJECT MATTER**B65D 77/04**(2006.01)i; **B05B 11/00**(2006.01)i; **B05B 11/10**(2023.01)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)

B65D 77/04(2006.01); A45D 33/00(2006.01); A45D 34/00(2006.01); A45D 40/00(2006.01); B05B 11/00(2006.01); B65D 8/06(2006.01)

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: 이중용기(double container), 리필(refill), 분리(separate), 회전(rotate) 및 돌기(protrusion)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	KR 10-2021-0006757 A (CHOI, Seung Ho et al.) 19 January 2021 (2021-01-19) See paragraphs [0030]-[0066] and figures 1-4.	1,8,9
Y		2-7,10
Y	KR 10-2021-0115707 A (YONWOO CO., LTD.) 27 September 2021 (2021-09-27) See paragraphs [0044]-[0062] and figures 1-6.	2-7,10
A	KR 10-2023-0055694 A (TAP KOREA. CO., LTD.) 26 April 2023 (2023-04-26) See paragraphs [0031]-[0059] and figures 1-9.	1-10
A	KR 10-2572224 B1 (TAP KOREA. CO., LTD.) 29 August 2023 (2023-08-29) See paragraphs [0033]-[0058] and figures 1-7.	1-10
A	JP 2019-189327 A (MFV K.K.) 31 October 2019 (2019-10-31) See paragraphs [0015]-[0108] and figures 1-20.	1-10

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

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“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

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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

26 March 2025

Date of mailing of the international search report

26 March 2025

Name and mailing address of the ISA/KR

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Authorized officer

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INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/KR2024/020818

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				KR	10-2332817	B1	30 November 2021
				US	11707754	B2	25 July 2023
				US	2023-0022130	A1	26 January 2023
				WO	2021-187718	A1	23 September 2021
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KR	10-2572224	B1	29 August 2023	None			
JP	2019-189327	A	31 October 2019	JP	7037179	B2	16 March 2022