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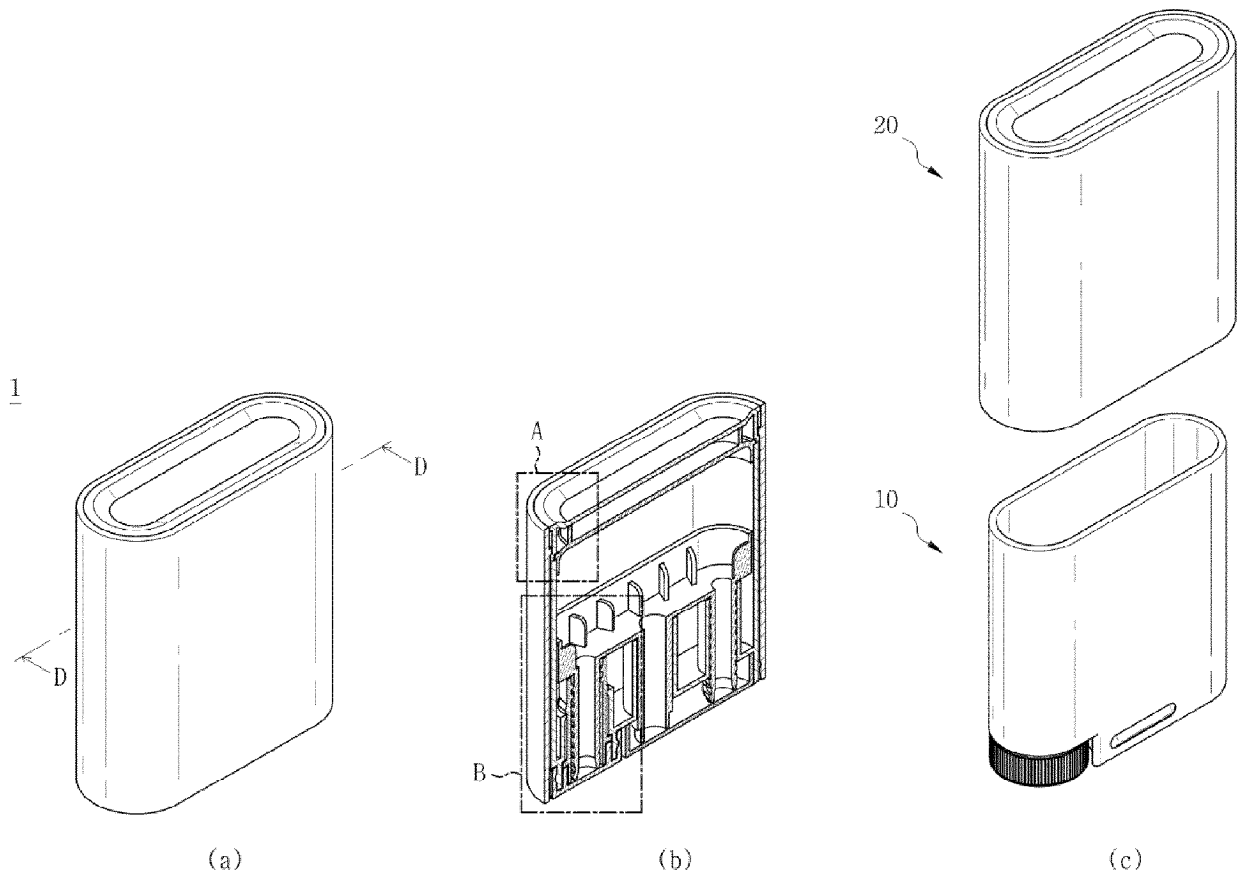
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(54) **SPACE-EFFICIENT AND USER-FRIENDLY CONTENT CONTAINER**

(57) The present invention relates to a container for contents, and more specifically, to a contents container having excellent space utilization and easy easy for

coupling members, provides an aesthetically pleasing appearance, allows contents to be stored reliably, and improves contents filling convenience.

【Fig. 1】



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Description**Technical field**

5 **[0001]** The present invention relates to a contents container having excellent space utilization and easy operation, and more specifically, to a contents container having excellent space utilization and easy operation by having a tray operation module located off-center of a lower container assembly.

Background Art

10 **[0002]** Containers of various structures are used to store and use contents such as cosmetics and pharmaceuticals. Generally, such a contents container comprises a container body supporting the content and a cap covering the content, and should include a member that can seal or open the content as needed.

15 **[0003]** However, the existing contents container has a problem in that space utilization of the contents container is low and operation is inconvenient because a means for controlling an operation such as lifting and lowering of the contents is located in the center. In addition, since a plurality of members are intricately connected to store or open contents, an assembly process is complicated, and there is a limitation in implementing a simple design in terms of appearance.

20 **[0004]** Therefore, there is a need for a contents container having a new structure capable of solving the above problems.

Prior art document**Patent document**

25 **[0005]** (Patent Document 1) KR 101880513 B1

Disclosure**Technical Problem**

30 **[0006]** An object of the present invention is to solve the above problems by providing a contents container that offers excellent space utilization, facilitates easy coupling between components, provides an aesthetically pleasing appearance, and improves operational convenience.

Technical Solution

35 **[0007]** In order to achieve the above-described object, the contents container according to an embodiment of the present invention is a contents container filled with contents, and includes a lower container assembly configured to accommodate the contents; and an upper container assembly detachably coupled to the lower container assembly, wherein the lower container assembly includes: a contents container member having a contents container space portion in which the contents are accommodated; a tray member mounted in the contents container space portion and having a tray body to which the contents are fixed; and a tray operation module for vertically displacing the tray member, wherein the tray operation module may be located in a off-center of the lower container assembly.

40 **[0008]** According to an embodiment, the tray member may include a first screw portion provided at a lower portion of the tray body, the tray operation module may include a second screw portion engaged with the first screw portion, and the tray member may be positioned in a vertical direction according to rotation of the tray operation module.

45 **[0009]** According to an embodiment, the tray operation module may include a rotating member; and a dial member, wherein the tray member may include a screw rod portion provided on a lower portion of the tray body portion, the first screw portion may be formed on an outer circumferential portion of the screw rod portion, the rotating member may include a rotating body portion having a through hole, the second screw portion may be formed on an inner circumferential portion of the rotating body portion, the dial member may be connected to a lower end portion of the rotating member, and the screw rod portion may be located in the through hole and the first screw portion and the second screw portion may be engaged with each other.

50 **[0010]** According to an embodiment, the screw rod portion may include a first screw rod portion and a second screw rod portion provided symmetrically on the left and right sides of the tray member, and the tray operation module may be connected to any one of the first screw rod portion and the second screw rod portion.

55 **[0011]** According to an embodiment, the inner container member may include a first pipe portion in which the

rotating member may be located.

[0012] According to an embodiment, the inner container member may include a third pipe portion in which any one of the first screw rod portion and the second screw rod portion may be located.

[0013] According to an embodiment, the rotation member may include a first support rib portion provided on an upper portion of the rotation body portion and protruding outward in a radial direction of the rotation body portion, and when the rotation member is inserted into the first pipe portion, the first support rib portion may be located on an upper end portion of the first pipe portion.

[0014] According to an embodiment, the first pipe portion may include a support step portion at an inner circumferential portion, the rotating member may include a second support rib portion provided at a lower portion of the rotating body portion and protruding outward in a radial direction of the rotating body portion, and the support step portion may be located on the second support rib portion when the rotating member is inserted into the first pipe portion.

[0015] According to an embodiment, the first pipe portion may include a first position holding portion in a lower outer circumferential portion, the dial member may include an outer dial portion into which a lower end portion of the first pipe portion may be inserted, the outer dial portion may include a second position holding portion in an inner circumferential portion, and when the dial member is connected to a lower end portion of the rotating member, the first position holding portion and the second position holding portion may be engaged with each other.

[0016] According to an embodiment, the first position holding portion may be an annular protruding line protruding outward in the radial direction of the first pipe portion and extending in the circumferential direction, and the second position holding portion may be configured as an annular groove line recessed outward in the radial direction of the outer dial portion and extending in the circumferential direction.

[0017] According to an embodiment, the screw rod portion may include a first hollow portion penetrating the screw rod portion in the vertical direction therein, and the first hollow portion may be opened to the lower portion of the tray body portion.

[0018] According to an embodiment, the tray member may include a center rod portion provided at a lower portion of the tray body, the center rod portion may include a second hollow portion passing through the center rod portion in a vertical direction, and the second hollow portion may be open to a lower portion of the tray body portion.

[0019] According to an embodiment, the tray member may further include a screw rod portion provided at a lower portion of the tray body portion and having the first screw portion formed at an outer circumferential portion thereof, the screw rod portion may include a first screw rod portion and a second screw rod portion provided symmetrically on left and right sides of the tray member, and the center rod portion may be located between the first screw rod portion and the second screw rod portion.

[0020] According to an embodiment, the upper container assembly may include: an overcap member including an overcap space portion into which the lower container assembly may be inserted; and an overcap button module coupled to an upper portion of the overcap space portion and displaceable in a vertical direction, wherein when the overcap button module descends while the lower container assembly is coupled to the upper container assembly, at least a portion of the lower container assembly may be separated from the overcap space portion.

[0021] According to an embodiment, the overcap button module may include a button member, wherein the overcap member may include an overcap rib portion protruding inward from an inner circumferential portion, wherein the button member may include a first button protrusion provided on an upper outer circumferential portion and protruding outward, and a second button protrusion provided on a lower outer circumferential portion and protruding outward, and the overcap rib portion may be located between the first button protrusion and the second button protrusion.

[0022] According to an embodiment, the overcap button module may further include an inner cap member coupled to a lower portion of the button member, the inner cap member may include an inner cap bottom portion protruding downward, a guide space may be formed between an inner circumferential portion of the overcap member and an outer circumferential portion of the inner cap bottom portion, and when the lower container assembly is coupled to the upper container assembly, an upper portion of the inner container member may be inserted into the guide space.

Advantageous Effects of Invention

[0023] In the contents container according to the embodiment of the present invention, the tray operation module may be located in the off-center of the lower container assembly. Accordingly, space utilization of both the lower container assembly and the overall contents container can be increased. In addition, since the tray operation module is located in the off-center of the lower container assembly, an area in which the dial member provided in the tray operation module is laterally exposed is enlarged, thereby improving the user's convenience in operating the tray operation module. In addition, when only one support member is inserted into the lower portion of the lower container assembly in a state in which the lower container assembly and the upper container assembly are coupled to each other, the other portion except the lower surface of the tray operation module is sealed, thereby reducing the number of components and providing an aesthetically pleasing appearance.

[0024] In addition, in the contents container according to an embodiment of the present invention, the tray member may have a symmetrical structure in the left and right directions. Accordingly, when coupling the tray member to the inner container member, the assembly may be performed without considering directionality.

[0025] In addition, since the tray member has a symmetrical structure in the left and right directions, it is possible to prevent the tray member from being inclined even when the dial member is unilateral operated. Accordingly, user convenience may be improved.

[0026] In addition, in the contents container according to an embodiment of the present invention, a content filling method may be selected by a user's selection. That is, as described above, the front filling method and the back filling method may be selected, respectively. In addition, when the back filling method is used, since the contents are filled through the center rod portion located in the center of the tray member, the contents may be evenly filled. In addition, according to the embodiment, since the air vent is achieved by the screw rod portion, it is possible to improve the air pocket phenomenon that may occur in the content filling process.

[0027] In addition, in the contents container according to an embodiment of the present invention, since the tray operation module is located in the center, the center rod portion used for filling the contents may be located in the center of the contents container when the back filling method is used. In addition, the screw rod portion having the first hollow portion used for the air vent may be symmetrically positioned on the left and right sides of the center rod portion. Therefore, the filling of the contents and the air venting may be more effectively performed.

[0028] In addition, in the contents container according to an embodiment of the present disclosure, the lower container assembly may be entirely inserted into the upper container assembly, and a side portion of the dial member included in the lower container assembly may not be exposed to the outside. Therefore, the contents container according to the embodiment of the present invention provides an integrated object mass feeling without bending, thereby providing an aesthetically pleasing appearance.

Brief description of drawings

[0029]

FIG. 1 is a view showing a contents container according to an embodiment of the present invention, (a) shows the appearance of the contents container, (b) shows the D-D cross section of (a), and (c) shows the lower container assembly and the upper container assembly constituting the contents container separately.

FIG. 2 is an exploded view illustrating a member constituting a lower container assembly by being exploded.

FIG. 3 is a view illustrating cross sections of the inner container member and the tray member constituting the lower container assembly, respectively.

FIG. 4 is a view illustrating cross sections of a rotating member and a dial member constituting a lower container assembly, respectively.

FIG. 5(a) is an exploded view illustrating the members constituting the upper container assembly in an exploded state, and FIG. 5(b) is a cross-section of each member.

FIG. 6 is an enlarged view of A and B of FIG. 1, and is a view illustrating an operation of a cap button module and an operation of a tray operation module.

FIGS. 7(a) and (b) are views respectively showing a method of filling contents in a contents container according to an embodiment of the present invention.

Detailed Description of the Invention

[0030] Hereinafter, a preferred embodiment according to the present invention will be described with reference to the accompanying drawings. This embodiment is not intended to be limiting.

[0031] FIG. 1 is a view showing a contents container 1 according to an embodiment of the present invention, (a) shows the appearance of the contents container 1, (b) shows the D-D cross section of (a), and (c) shows the lower container assembly 10 and the upper container assembly 20 constituting the contents container 1 separately.

[0032] The contents container 1 according to an embodiment of the present invention includes a lower container assembly 10 and an upper container assembly 20.

[0033] The lower container assembly 10 may be a storage assembly capable of containing and supporting contents such as cosmetics and formulations, and the upper container assembly 20 may be understood as a cover assembly capable of protecting the contents by covering the lower container assembly 10.

[0034] In FIGS. 1 to 6, the contents are consistently omitted.

<Lower container assembly(10)>

[0035] FIG. 2 is an exploded view illustrating a member constituting the lower container assembly 10 in an exploded manner. FIG. 3 is a view illustrating cross sections of the inner container member 100 and the tray member 200 constituting the lower container assembly 10, respectively. FIG. 4 is a view illustrating cross sections of the rotating member 300 and the dial member 400 constituting the lower container assembly 10, respectively.

[0036] The lower container assembly 10 may include an inner container member 100, a tray member 200, a rotating member 300, a dial member 400, and a support member 500.

[0037] The inner container member 100 may be a cylindrical member constituting the body of the lower container assembly 10.

[0038] The inner container member 100 may include an inner container body portion 110 having an inner container space portion 112 formed therein, and an inner container support portion 120 constituting a bottom surface of the inner container space portion 112.

[0039] The inner container support portion 120 may be provided with a first pipe portion 130 and a second pipe portion 140. In addition, a third pipe portion 150 may be further provided in the inner container support portion 120.

[0040] The first pipe portion 130 is configured in the form of an upright pipe, and has a first pipe space portion 132 penetrating in the vertical direction. A support stepped portion 134 may be formed on an inner circumferential portion of an intermediate portion of the first pipe portion 130. With the support stepped portion 134 as a boundary, the inner diameter of the first pipe space portion 132 above the support stepped portion 134 may be smaller than that below the support stepped portion 134. A first position holding portion 136 protruding outward along the circumference of the first pipe portion 130 may be provided on the outer circumferential portion of the lower end of the first pipe portion 130. The first position holding portion 136 may be a protruding line formed on the outer surface of the first pipe portion 130, protruding outward, and extending along the circumferential direction.

[0041] The second pipe portion 140 is configured in the form of an upright pipe and has a second pipe space portion 142 penetrating in the vertical direction. The second pipe portion 140 may be located at the center of the inner container support portion 120.

[0042] The third pipe portion 150 is configured in the form of an upright pipe and may include a third pipe space portion 152 penetrating in the vertical direction.

[0043] The second pipe portion 140 may be located at the center of the inner container support portion 120. The first pipe portion 130 and the third pipe portion 150 may be positioned at both sides of the second pipe portion 140 with respect to the second pipe portion 140.

[0044] The tray member 200 may be mounted in the inner container space portion 112 of the inner container member 100.

[0045] The tray member 200 may include a tray body portion 210, a screw rod portion 220, and a center rod portion 230.

[0046] The tray body portion 210 may be a tray-shaped portion that supports the contents and to which the contents may be fixed.

[0047] The tray body portion 210 includes a tray bottom surface portion 212 constituting a bottom surface and a tray side surface portion 214 constituting a circumferential surface, and a tray space portion 216 in which a portion of contents is filled may be formed on the tray bottom surface portion 212. A retaining rib 218 capable of fixing the contents and preventing detachment may be provided inside the tray body portion 210. For example, the retaining rib 218 may be a rib protruding inward from the tray side surface portion 214. The tray body portion 210 may include a plurality of retaining ribs 218.

[0048] The screw rod portion 220 is provided below the tray body portion 210. The screw rod portion 220 may be in the form of a pipe erected up and down. A first screw portion 222 having a male thread configuration may be formed on the outer circumferential portion of the screw rod portion 220. According to the embodiment, the screw rod portion 220 may include a first hollow portion 224, which is a through hole penetrating vertically, inside. According to an embodiment, a first open portion 226 may be formed at an upper end portion of the first hollow portion 224. Meanwhile, although not shown in the drawings, an embodiment in which the first open portion 226 is not formed or the first open portion 226 is sealed by another member (not shown) is also possible.

[0049] The center rod portion 230 is provided below the tray body portion 210. The center rod portion 230 may be in the form of a pipe erected up and down. The center rod portion 230 may include a second hollow portion 232, which is a through hole penetrating vertically, inside. According to an embodiment, a second open portion 234 may be formed at an upper end portion of the second hollow portion 232. The second hollow portion 232 and the tray bottom surface portion 212 may communicate with each other through the second open portion 234. Meanwhile, although not shown in the drawings, an embodiment in which the second open portion 234 is not formed or the second open portion 234 is sealed by another member (not shown) is also possible.

[0050] According to the embodiment, the center rod portion 230 may be located at the center of the tray bottom

surface portion 212. In addition, two screw rod portions 220 are provided, and the two screw rod portions 220 may be disposed symmetrically on both sides of the center rod portion 230 with respect to the center rod portion 230. Accordingly, the screw rod portion 220 may include a first screw rod portion 220-1 and a second screw rod portion 220-2.

[0051] FIG. 4 is a view illustrating cross sections of the rotating member 300 and the dial member 400 constituting the lower container assembly 10, respectively.

[0052] The rotating member 300 may be a pipe-shaped member having a predetermined inner diameter and outer diameter. The rotating member 300 may include a rotating body portion 310, a second screw portion 320 provided in the rotating body portion 310, a first support rib portion 330, a second support rib portion 340, and a first engagement portion 350.

[0053] The rotating body portion 310 may be a pipe-shaped portion constituting the body of the rotating member 300. The rotating body portion 310 may have a predetermined height, an inner diameter, and an outer diameter. A through hole 312 vertically penetrating the rotating body portion 310 may be formed inside the rotating body portion 310.

[0054] The second screw portion 320 may have a female thread configuration provided on the inner circumferential portion of the rotating body portion 310.

[0055] The first support rib portion 330 may be a protrusion provided on an upper portion of the rotating body portion 310 and protruding outward in the radial direction of the rotating body portion 310.

[0056] The second support rib portion 340 may be a protrusion provided at a lower portion of the rotating body portion 310 and protruding outward in the radial direction of the rotating body portion 310.

[0057] The first engagement portion 350 may be provided at a lower portion of the rotating body portion 310 and may be provided at a lower portion of the support rib portion. The first engagement portion 350 may be a gear portion provided on the outer circumferential portion of the rotating body portion 310 and arranged along the circumferential direction. The first engagement portion 350 may be configured as a three-dimensional portion that may be fitted with a second engagement portion 422 to be described later.

[0058] The dial member 400 may include an outer dial portion 410 and an inner dial portion 420. The dial member 400 may have a double pipe structure in which lower ends thereof are connected to each other.

[0059] The outer dial portion 410 may include an operation stereoscopic portion 412 and a second position holding portion 414.

[0060] The operation stereoscopic portion 412 may be provided at an outer circumferential portion of the outer dial portion 410. The operation stereoscopic portion 412 may be a predetermined stereoscopic portion that facilitates the user's gripping and operation, and may have a gear part shape formed along the outer periphery of the outer dial portion 410, for example, as shown in FIG. 4B.

[0061] The second position holding portion 414 may be provided on the inner circumferential portion of the outer dial portion 410. The second position holding portion 414 may be a groove line formed on the inner surface of the outer dial portion 410, recessed in the outer direction, and extending along the circumferential direction.

[0062] The inner dial portion 420 is provided inside the outer dial portion 410. The inner dial portion 420 may include a second engagement portion 422. The second engagement portion 422 may be a gear part provided at the inner circumferential portion of the inner dial portion 420 and arranged along the circumferential direction.

[0063] The support member 500 may be a predetermined support that may be coupled to the lower portion of the lower container assembly 10. For example, the support member 500 may be inserted into the lower portion of the inner container member 100. When the support member 500 is inserted into the lower portion of the inner container member 100, the support member 500 may cover the lower portion of the second pipe portion 140 and the lower portion of the third pipe portion 150.

<Upper container assembly(20)>

[0064] FIG. 5(a) is an exploded view illustrating a member constituting the upper container assembly 20 in an exploded state, and FIG. 5(b) shows a cross section of each member.

[0065] The upper container assembly 20 may include an overcap member 600, a button member 700, and an inner cap member 800.

[0066] The overcap member 600 includes an overcap body portion 610. The overcap body portion 610 may have a cylindrical configuration in which an overcap space portion 612 is formed therein. An overcap rib portion 614 protruding inward may be provided on the upper inner circumferential portion of the overcap body portion 610.

[0067] The button member 700 may include a button top portion 710 constituting an upper surface, and a button side portion 720 provided under the button top portion 710 and constituting a circumferential surface. A first button protrusion 712 protruding outward from the button side portion 720 may be provided on the outer circumferential portion of the button top portion 710. A button space portion 730 is formed in a lower portion of the button top portion

710. In addition, a second button protrusion 722 protruding outward may be provided on the outer surface of the button side portion 720.

[0068] The inner cap member 800 may include a plate-shaped inner cap body portion 810 constituting a body, an inner cap side portion 820 protruding outward from the inner cap body portion 810, and an inner cap bottom portion 830 protruding downward from the inner cap body portion 810.

<The coupling structure and operation of the lower container assembly(10)>

[0069] The coupling structure and operation of the lower container assembly 10 will be described below.

[0070] At least a portion of the rotating member 300 is located in the first pipe portion 130. The first support rib portion 330 of the rotating member 300 may be positioned on and supported by the upper end of the first pipe portion 130, and the second support rib portion 340 of the rotating member 300 may be positioned under and supported by the support stepped portion 134 formed on the inner surface of the first pipe portion 130. Accordingly, the vertical position of the rotating member 300 may be maintained.

[0071] The dial member 400 is coupled to the lower end of the rotating member 300 and the lower end of the first pipe portion 130. At this time, the lower end of the rotating body of the rotating member 300 is inserted into the inner dial portion 420, and the first engagement portion 350 provided at the lower end of the rotating member 300 and the second engagement portion 422 provided at the inner circumferential portion of the inner dial portion 420 are engaged with each other. In addition, a lower end of the first pipe portion 130 is inserted between the inner dial portion 420 and the outer dial portion 410, and the second position holding portion 414 provided on the inner circumferential portion of the outer dial portion 410 and the first position holding portion 136 provided on the lower end of the first pipe portion 130 may be engaged with each other. The dial member 400 may maintain its position without being separated from the lower end of the first pipe portion 130 by the engagement between the first position holding portion 136 and the second position holding portion 414. In addition, the dial member 400 is rotatable about a lower end of the first pipe portion 130. The rotation operation of the dial member 400 may be easily performed by the operation stereoscopic portion 412 provided on the outer periphery of the outer dial portion 410. In addition, since the first engagement portion 350 of the rotating member 300 and the second engagement portion 422 of the dial member 400 are engaged with each other, when the dial member 400 rotates, the rotating member 300 may rotate integrally with the dial member 400.

[0072] The tray member 200 may be mounted in the inner container space portion 112 of the inner container member 100. In this case, the tray body portion 210 may be located in the inner container space portion 112. The center rod portion 230 may be located in the second pipe portion 140. The screw rod portion 220 may be located in the first pipe portion 130 and the third pipe portion 150. In this case, the first screw rod portion 220-1 may be located in the first pipe portion 130, and the second screw rod portion 220-2 may be located in the third pipe portion 150. However, the opposite is possible, meaning that the left and right directionality of the tray member 200 may be ignored during assembly. Hereinafter, it will be described that the first screw rod portion 220-1 is located in the first pipe portion 130.

[0073] The screw rod portion 220 located in the first pipe portion 130 may be located in the through hole 312 of the rotating member 300. That is, the rotating body portion 310 of the rotating member 300 may be positioned between the screw rod portion 220 and the first pipe portion 130. In this case, the first screw portion 222 provided on the outer circumferential portion of the screw rod portion 220 may be engaged with the second screw portion 320 provided on the inner circumferential portion of the rotating member 300.

[0074] The dial member 400 and the rotating member 300 may constitute a tray operation module V capable of displacing the tray member 200 in the vertical direction. Therefore, the tray operation module V according to the embodiment may be located in the non-center of the lower container assembly 10. According to the embodiment, the dial member 400 of the tray operation module V may be located at the lower edge of the lower container assembly 10.

[0075] Since the coupling structure is provided as described above, when the dial member 400 rotates, the rotating member 300 rotates integrally with the dial member 400, and the rotation of the rotating member 300 may be implemented as a vertical displacement of the tray member 200.

[0076] That is, when the dial member 400 is rotated as indicated by the arrow R of FIG. 6(a), the tray member 200 may be displaced in the vertical direction as indicated by the arrow Q. Accordingly, the contents fixed and supported on the tray member 200 may be raised to be exposed onto the lower container assembly 10, or the contents may be lowered to be inserted into the lower container assembly 10.

<Coupling structure and operation of the upper container assembly(20)>

[0077] The coupling structure and operation of the upper container assembly 20 will be described below.

[0078] The inner cap member 800 may be coupled to a lower portion of the button member 700. Specifically, the inner cap side portion 820 may be fitted and fixed in the button space portion 730. The button member 700 and the

inner cap member 800 may be coupled to each other to constitute the overcap button module C. In this case, the inner cap bottom portion 830 may be positioned inward relative to the button side portion 720 and may further extend downward.

[0079] The overcap button module C may be inserted into the overcap member 600. Specifically, the overcap button module C may be inserted into an upper portion of the overcap space portion 612 of the overcap member 600. In this case, an overcap rib portion 614 may be positioned between the first button protrusion 712 provided on the outer circumferential portion of the button top portion 710 of the button member 700 and the second button protrusion 722 provided on the lower outer circumferential portion of the button side portion 720. Accordingly, the overcap button module C may move in the vertical direction as shown by the arrow P of FIG. 6(b) without being separated from the overcap member 600 within the upper portion of the overcap space portion 612.

<Coupling and separation of the lower container assembly(10) and the upper container assembly 20>

[0080] The coupling and separation of the lower container assembly 10 and the upper container assembly 20 will be described below.

[0081] As shown in FIG. 1(c), the lower container assembly 10 may be inserted upward from below into the upper container assembly 20. The contents contained in the lower container assembly 10 may be covered by the upper container assembly 20.

[0082] As shown in FIG. 6(b), when the upper container assembly 20 and the lower container assembly 10 are coupled to each other, a guide space, which is a gap space opened downward, is formed between the inner cap bottom portion 830 and the overcap body portion 610 of the inner cap member 800, and the upper end of the inner container body portion 110 may be inserted into the guide space. Therefore, the upper end of the inner container body portion 110 may contact the lower end of the button side portion 720. Accordingly, it is possible to seal the contents filled in the inner container space portion 112 and improve the protection effect on the contents.

[0083] In addition, as shown in FIG. 6(a), when the upper container assembly 20 and the lower container assembly 10 are coupled to each other, a side portion of the dial member 400 included in the lower container assembly 10 may be covered and hidden by the overcap member 600. Accordingly, when the upper container assembly 20 and the lower container assembly 10 are coupled to each other, most portions of the lower container assembly 10 can be concealed, except for its lower bottom surface portion.

[0084] When the contents are to be used, the lower container assembly 10 may be separated from the upper container assembly 20 by pressing the overcap button module C provided in the upper container assembly 20 in the downward direction of the arrow P of FIG. 6(b). That is, when the overcap button module C is pressed in the downward direction of the arrow P of FIG. 6(b), the overcap button module C may press the upper end portion of the inner container body portion 110 so that at least a portion of the lower container assembly 10 may be separated from the overcap space portion 612 in the downward direction.

<Method of Filling Contents in Contents Container 1 According to Embodiment>

[0085] FIGS. 7(a) and 7(b) show a method of filling the contents in the contents container 1 according to the embodiment, and each shows a filling method according to different embodiments.

[0086] First, referring to FIG. 7(a), one method of filling the contents in the contents container 1 may be a method of filling the contents of a liquid or semi-liquid into the inner container space portion 112 as shown by arrow A in a state in which the lower container assembly 10 is upright. An embodiment in which this method is available may be an embodiment in which the tray bottom surface portion 212 of the tray member 200 is closed. That is, it may be an embodiment in which the contents are blocked so that they do not flow downward through the bottom surface of the tray of the tray member 200. That is, each of the first open portion 226 of the screw rod portion 220 and the second open portion 234 of the center rod portion 230 may be in a sealed state.

[0087] This filling method may be described as a front filling method because the filling of the contents is performed in a position in which the contents container 1 is upright in a regular position.

[0088] Next, referring to FIG. 7(b), another method of filling the contents container 1 with the contents may be performed in a posture in which the contents container 1 is turned upside down in a vertical direction in a state in which the lower container assembly 10 and the upper container assembly 20 are coupled to each other, with the dial member 400 and the support member 500 are separated from the lower container assembly 10. In this state, the contents may be filled in the inner container space portion 112 through the second hollow portion 232 of the center rod portion 230 as shown by the arrow B. An embodiment in which this method is available may be an embodiment in which the tray bottom surface portion 212 of the tray member 200 is opened. That is, the second open portion 234 of the second hollow portion 232 of the center rod portion 230 may be in an open state so that the contents may be injected into the inner container space portion 112 through the bottom surface of the tray of the tray member 200. In

addition, according to the embodiment, the first hollow portion 224 provided in the screw rod portion 220 may also have an embodiment having a first open portion 226. As described above, since the first open portion 226 is in an open state, an air vent may be formed as shown by the arrow H in the process of filling the contents.

[0089] This filling method may be described as a back filling method because the contents are filled in a position in which the contents container 1 is reversed up and down.

<Effect of the Contents Container 1 According to the Embodiment>

[0090] Hereinafter, an effect of the contents container 1 according to an embodiment of the present invention will be described.

[0091] In the contents container 1 according to the embodiment of the present invention, the tray operation module V may be located in the non-center of the lower container assembly 10. Accordingly, space utilization of the entire lower container assembly 10 and the contents container 1 may increase. In addition, since the tray operation module V is located in the non-center of the lower container assembly 10 and the area in which the dial member 400 provided in the tray operation module V is exposed in the lateral direction is enlarged, the user's manipulation convenience with respect to the tray operation module V may be improved. In addition, when only one support member 500 is inserted into the lower portion of the lower container assembly 10 in a state in which the lower container assembly 10 and the upper container assembly 20 are coupled to each other, the other portion except the lower surface of the tray operation module V is sealed, thereby reducing the number of components and providing an aesthetically pleasing appearance.

[0092] The contents container 1 according to the embodiment of the present invention may have a structure in which the tray member 200 is symmetrical in the left-right direction. That is, the screw rod portion 220 may be symmetrically provided at both sides of the center rod portion 230 with respect to the center rod portion 230. Accordingly, when the tray member 200 is coupled to the inner container member 100, the assembly may be performed without considering directionality.

[0093] In addition, since the tray member 200 has a symmetrical structure in the left and right directions, even when the dial member 400 is operated on one side, it is possible to prevent the tray member 200 from being inclined. Accordingly, user convenience may be improved.

[0094] In addition, in the contents container 1 according to an embodiment of the present invention, a content filling method may be selected by a user's selection. That is, as described above, the front filling method and the back filling method may be selected, respectively. In addition, when the back filling method is used, since the contents are filled through the center rod portion 230 positioned at the center of the tray member 200, the contents may be evenly filled. In addition, according to the embodiment, since the first hollow portion 224 provided in the screw rod portion 220 has the first open portion 226, the air vent is achieved, and thus the air pocket phenomenon that may occur in the content filling process may be improved.

[0095] In addition, as the tray operation module V is located in the non-center of the contents container 1, the center rod portion 230 used for filling the contents may be located in the center of the contents container 1 when the back filling method is used. In addition, the screw rod portion 220 having the first hollow portion 224 used for the air vent may be symmetrically positioned on the left and right sides of the center rod portion 230. Therefore, the filling of the contents and the air venting may be more effectively performed.

[0096] In addition, in the contents container 1 according to the embodiment of the present invention, the lower container assembly 10 is entirely inserted into the upper container assembly 20, and when the lower container assembly 10 is inserted into the upper container assembly 20, the side portion of the dial member 400 included in the lower container assembly 10 may not be exposed to the outside. Therefore, the contents container 1 according to the embodiment of the present invention provides an integrated object mass feeling without bending, thereby providing an aesthetically pleasing appearance.

[0097] Although the exemplary embodiments have been illustrated and described above, the present invention is not limited to the specific embodiments described above, and various modifications can be made by a person having ordinary skill in the art to which the present invention belongs without departing from the gist of the present invention claimed in the claims, and such modifications should not be individually understood from the technical idea or the prospect of the present invention.

Description of a code

1:	contents container		
10:	lower container assembly	20:	upper container assembly
100:	inner container member	110:	inner container body portion
112:	inner container space portion	120:	inner container support portion

(continued)

130:	first pipe portion	132:	first pipe space portion
134:	support stepped portion		
136:	first position holding portion	140:	second pipe portion
142:	second pipe space portion	150:	third pipe portion
152:	third pipe space portion		
200:	tray member	210:	tray body portion
212:	tray bottom surface portion	214:	tray side surface portion
216:	tray space portion	218:	retaining rib
220:	screw rod portion	222:	first screw portion
224:	first hollow portion	226:	first open portion
230:	center rod portion	232:	second hollow portion
234:	second open portion		
310:	rotating body portion	300:	rotating member
312:	through hole	320:	second screw portion
330:	first support rib portion	340:	second support rib portion
350:	first engagement portion		
400:	dial member	410:	outer dial portion
412:	operation stereoscopic portion	414 :	second position holding portion
420:	inner dial portion	422 :	second engagement portion
500:	support member		
600:	overcap member	610 :	overcap body portion
612:	overcap space portion	614 :	overcap rib portion
700:	button member	710 :	button top portion
712:	first button protrusion	720 :	button side portion
722:	second button protrusion	730 :	button space portion
800:	inner cap member	810 :	inner cap body portion
820:	inner cap side portion	830 :	inner cap bottom portion
C:	overcap button module		
V:	tray operation module		

Claims

1. A contents container filled with contents, the contents container comprising:

a lower container assembly configured to accommodate the contents;
and an upper container assembly detachably coupled to the lower container assembly,
wherein the lower container assembly comprises:

a inner container member having a inner container space portion in which the contents are accommodated;
a tray member mounted in the inner container space portion and having a tray body to which the contents are fixed;
and a tray operation module for vertically displacing the tray member, wherein the tray operation module is formed at an off-center of the lower container assembly.

2. The contents container of claim 1,

wherein the tray member comprises a first screw portion provided at a lower portion of the tray body,
and the tray operation module comprises a second screw portion engaged with the first screw portion,
and the tray member is vertically repositioned according to rotation of the tray operation module.

3. The contents container of claim 2,
wherein the tray operation module comprises:

a rotating member; and a dial member,
wherein the tray member comprises a screw rod portion provided at a lower portion of the tray body portion,
the first screw portion is formed at an outer circumferential portion of the screw rod portion,
the rotating member comprises a rotating body portion having a through hole,
the second screw portion is formed at an inner circumferential portion of the rotating body portion,
the dial member is connected to a lower end portion of the rotating member,
and the screw rod portion is located in the through hole and the first screw portion and the second screw
portion are engaged with each other.

4. The contents container of claim 3,

wherein the screw rod portion comprises a first screw rod portion and a second screw rod portion provided
symmetrically on left and right sides of the tray member,
and the tray operation module is connected to either the first screw rod portion or the second screw rod
portion.

5. The contents container of claim 4,
wherein the inner container member comprises a first pipe portion in which the rotating member is positioned.

6. The contents container of claim 5,
wherein the inner container member comprises a third pipe portion in which either the first screw rod portion or the
second screw rod portion is positioned.

7. The contents container of claim 5,

wherein the rotation member comprises a first support rib portion provided on an upper portion of the rotation
body portion and protruding radially outward of the rotation body portion,
and when the rotation member is inserted into the first pipe portion,
the first support rib portion is located on an upper end of the first pipe portion.

8. The contents container of claim 5,

wherein the first pipe portion comprises a support stepped portion at an inner circumferential edge thereof,
the rotating member comprises a second support rib portion provided at a lower portion of the rotating body
portion and protruding outward in a radial direction of the rotating body portion,
and when the rotating member is inserted into the first pipe portion,
the support stepped portion is located on the second support rib portion.

9. The contents container of claim 5,

wherein the first pipe portion comprises a first position holding portion at a lower outer circumferential portion,
the dial member comprises an outer dial portion into which a lower end portion of the first pipe portion is
inserted,
the outer dial portion comprises a second position holding portion at an inner circumferential portion,
and when the dial member is connected to a lower end portion of the rotating member,
the first position holding portion and the second position holding portion are engaged with each other.

10. The contents container of claim 9,

wherein the first position holding portion is an annular protruding line protruding outward in the radial direction
of the first pipe portion and extending in the circumferential direction,
and the second position holding portion is an annular groove line recessed outward in the radial direction of
the outer dial portion and extending in the circumferential direction.

11. The contents container of claim 4,

wherein the screw rod portion includes a first hollow portion penetrating the screw rod portion in a vertical direction,
and the first hollow portion is opened to a lower portion of the tray body portion.

12. The contents container of claim 1,

wherein the tray member includes a center rod portion provided at a lower portion of the tray body,
the center rod portion includes a second hollow portion penetrating the center rod portion in a vertical direction,
and the second hollow portion is open to a lower portion of the tray body portion.

13. The contents container of claim 12,

wherein the tray member further comprises a screw rod portion provided at a lower portion of the tray body portion and having a first screw portion formed at an outer circumferential portion thereof,
wherein the screw rod portion comprises a first screw rod portion and a second screw rod portion provided symmetrically at left and right sides of the tray member,
and wherein the center rod portion is positioned between the first screw rod portion and the second screw rod portion.

14. The contents container of claim 1,

wherein the upper container assembly comprises: an overcap member including an overcap space portion into which the lower container assembly is inserted;
and an overcap button module coupled to an upper portion of the overcap space portion and displaceable in a vertical direction,
wherein when the overcap button module descends while the lower container assembly is coupled to the upper container assembly, at least a portion of the lower container assembly is separated from the overcap space portion.

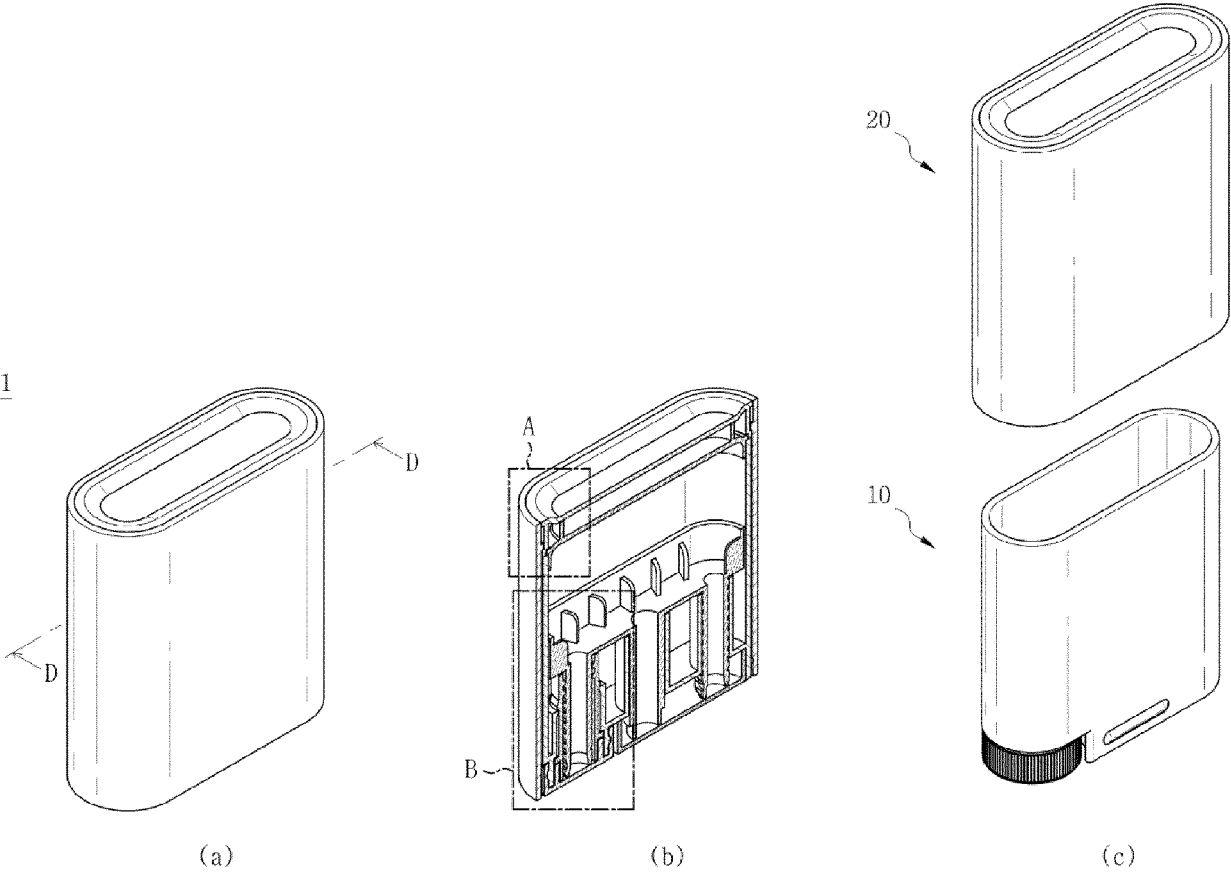
15. The contents container of claim 14,

wherein the overcap button module comprises a button member,
wherein the overcap member comprises an overcap rib portion protruding inwardly from an inner circumferential portion,
wherein the button member comprises
a first button protrusion provided on an upper outer circumferential portion and protruding outward,
and a second button protrusion provided on a lower outer circumferential portion and protruding outward,
and wherein the overcap rib portion is located between the first button protrusion and the second button protrusion.

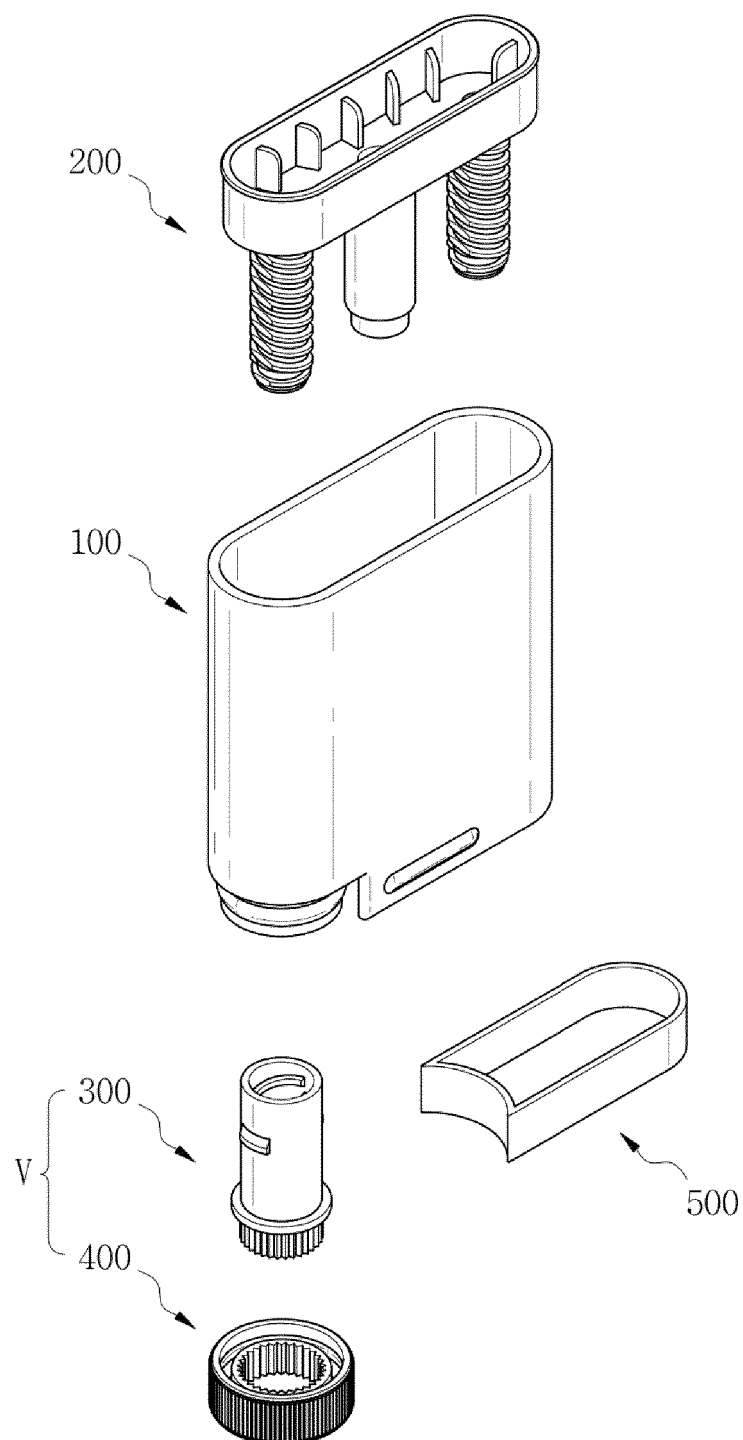
16. The contents container of claim 15,

wherein the overcap button module further comprises an inner cap member coupled to a lower portion of the button member,
wherein the inner cap member comprises an inner cap bottom portion protruding downward,
a guide space is formed between an inner circumferential portion of the overcap member and an outer circumferential portion of the inner cap bottom portion,
and when the lower container assembly is coupled to the upper container assembly,
an upper portion of the contents container member is inserted into the guide space.

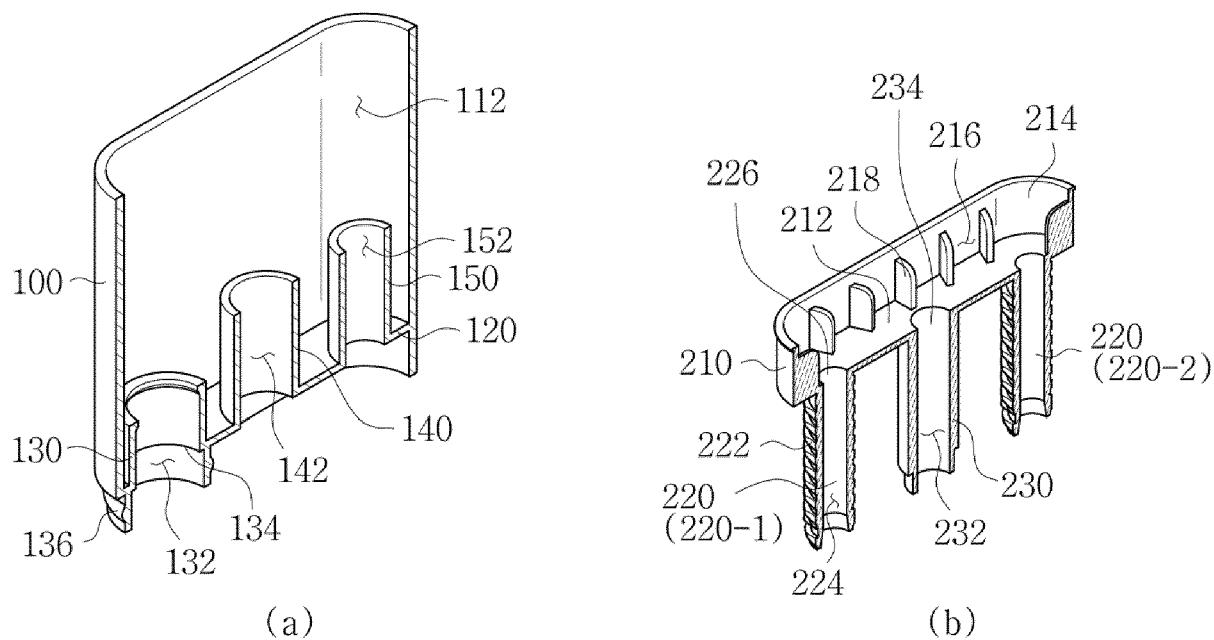
【Fig. 1】



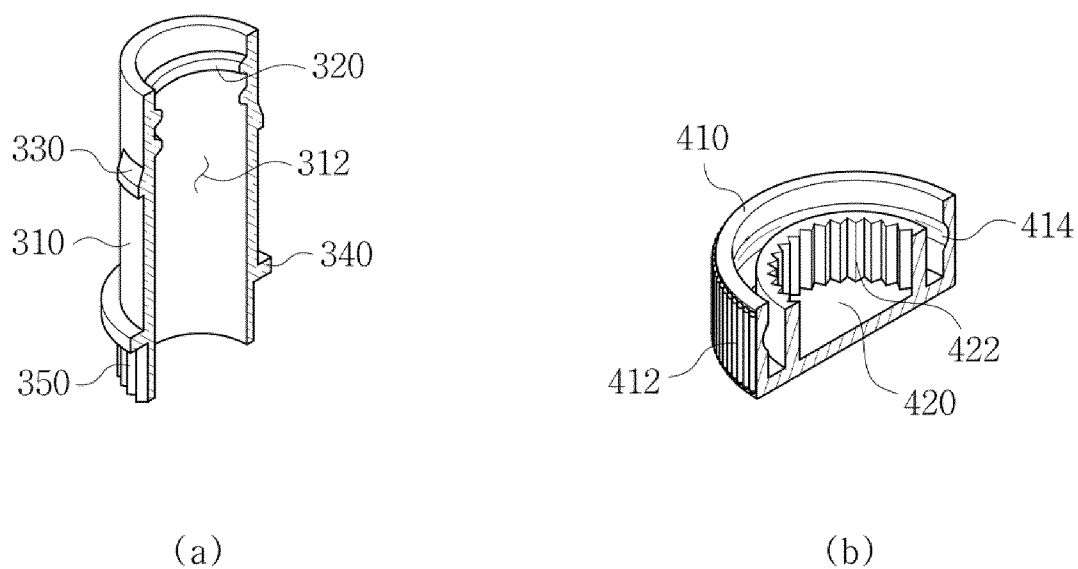
【Fig. 2】



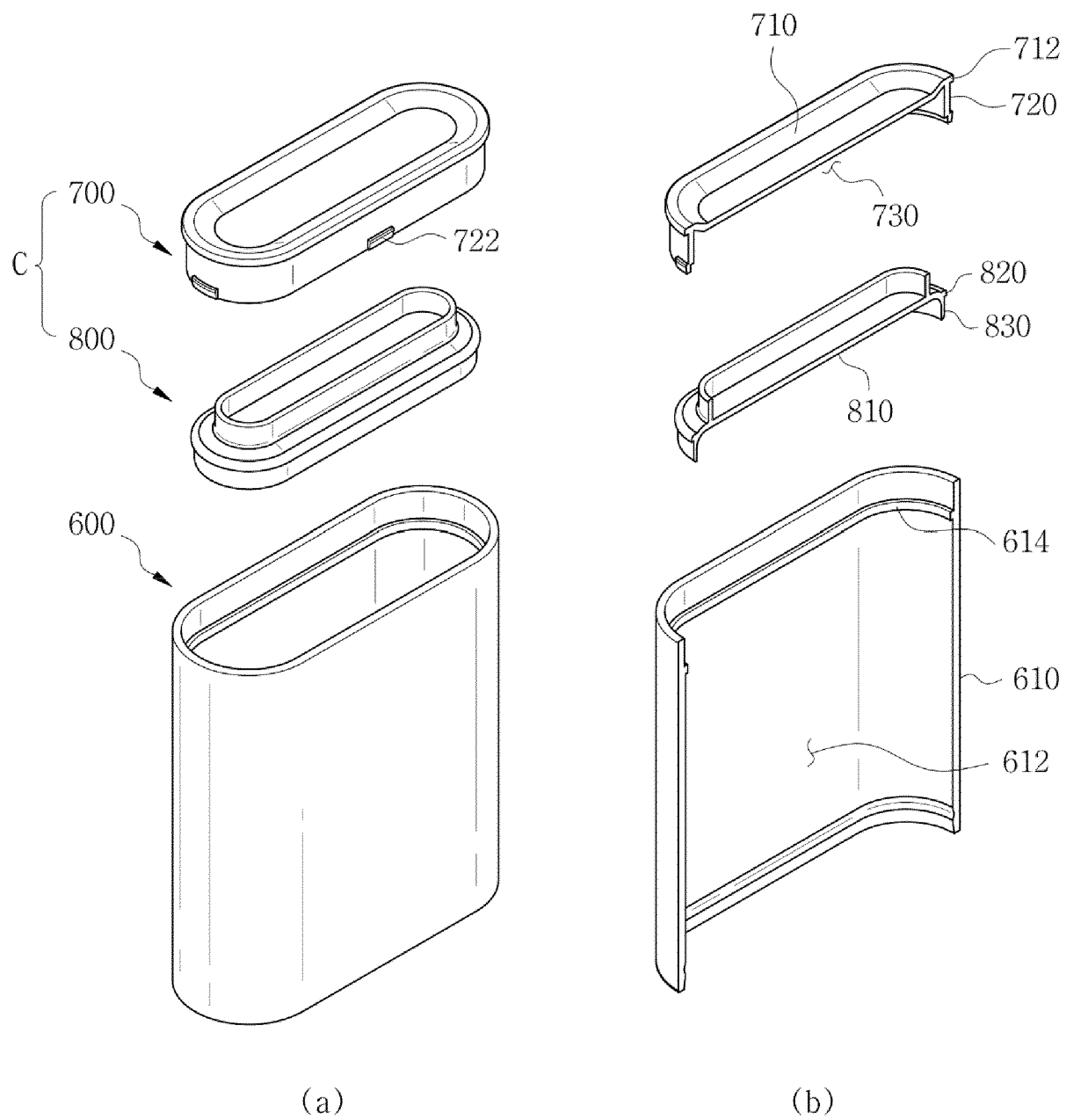
【Fig. 3】



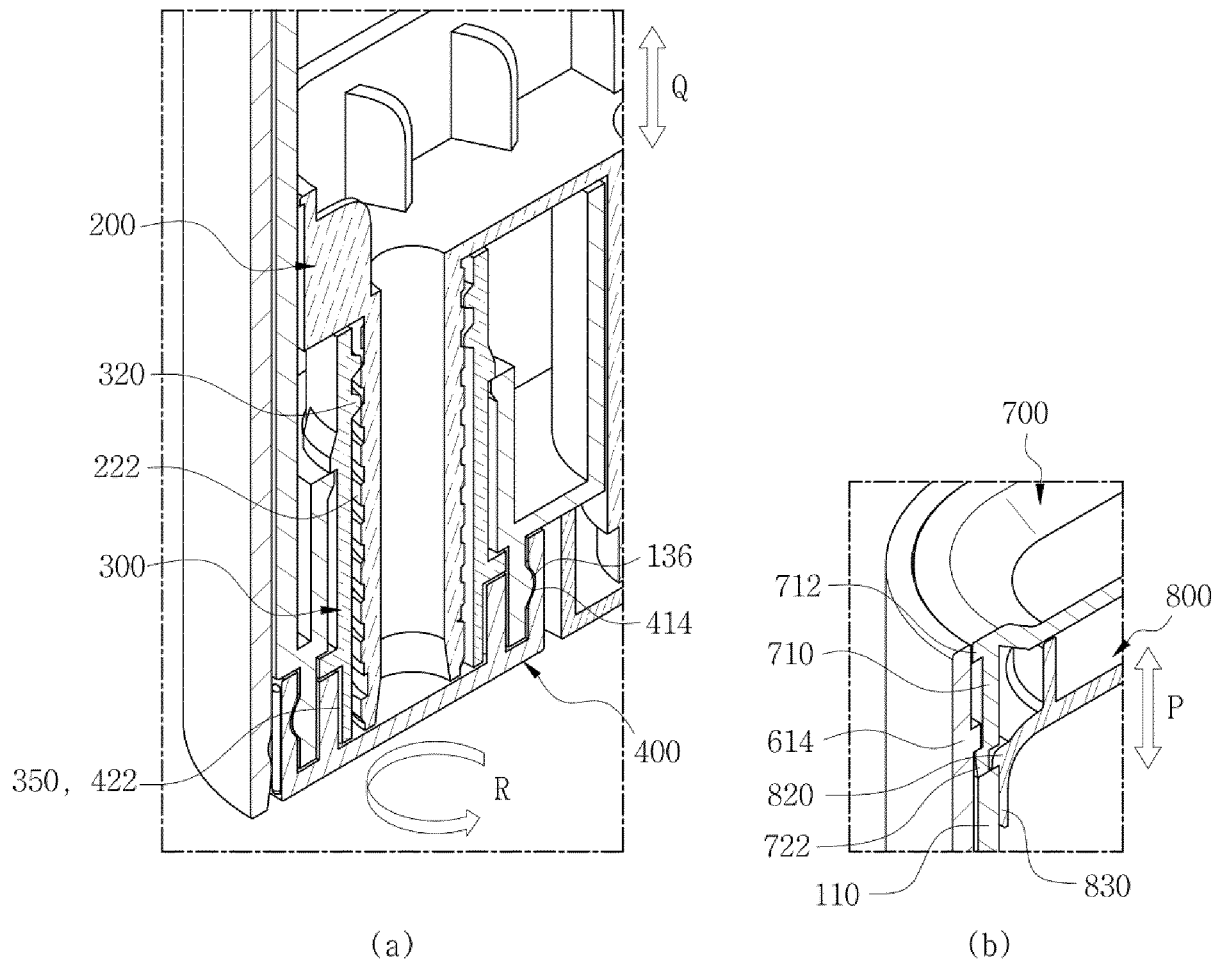
【Fig. 4】



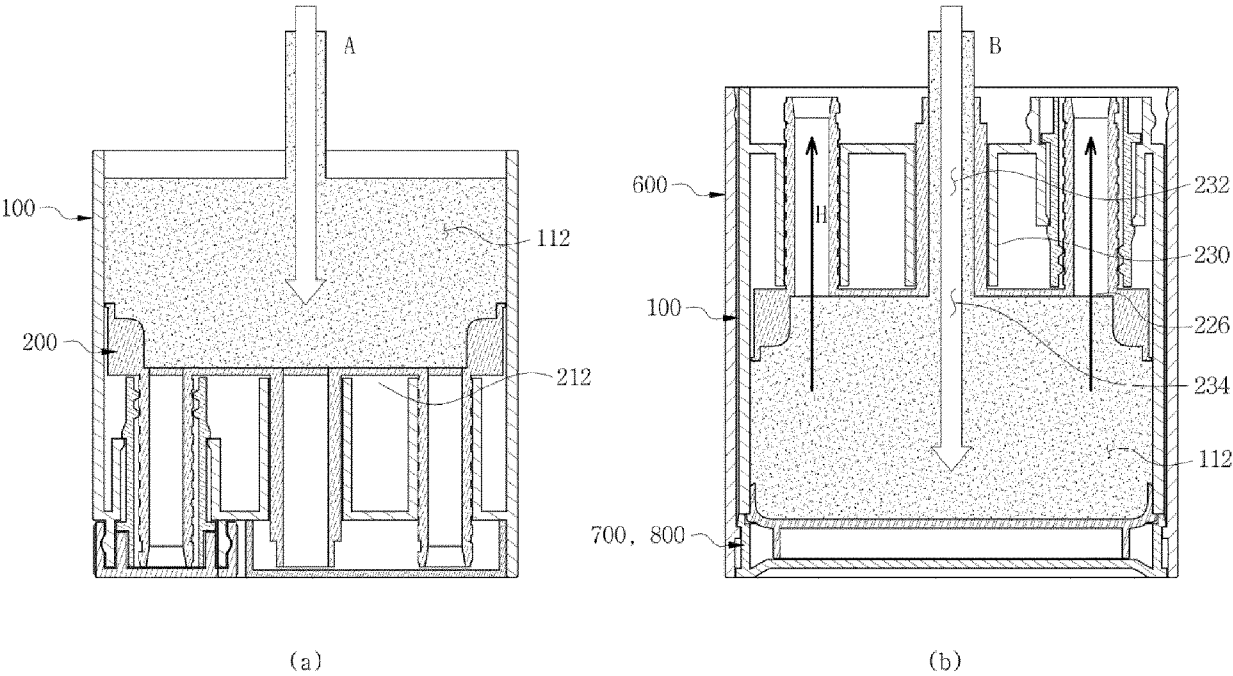
【Fig. 5】



【Fig. 6】



【Fig. 7】





EUROPEAN SEARCH REPORT

Application Number

EP 25 19 2824

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Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (IPC)
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			TECHNICAL FIELDS SEARCHED (IPC)
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Place of search		Date of completion of the search	Examiner
The Hague		17 December 2025	Fidalgo Marron, B
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