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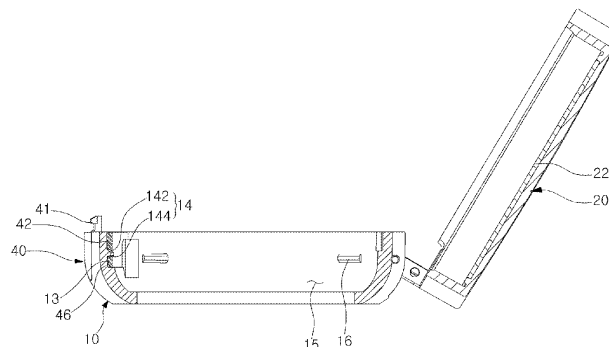
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(54) **COMPACT CONTAINER HAVING BUTTON MEMBER ENABLING EASY ASSEMBLY**

(57) The present invention relates to a compact container having a button member enabling easy assembly and, more specifically, to a compact container comprising: a container body which has a button member mounted on the front side thereof; a container lid which is hinge-coupled to the back side of the container body; an inner container member which is for accommodating contents and is mounted on the inner side of the container body; and a fixing member which is for fixing the inner container member and the button member and is fixedly coupled to the inner peripheral surface of the container body. A button member mounting groove, in which the button member is mounted, is formed on the front side of the container body, thereby fixedly coupling the button member. The button member mounting groove has the upper part open and is adjacent to the button member

mounting groove. A button member support and coupling protrusions are formed on the inner side of the container body, and button member blade portions, having coupling grooves formed thereon, extend from both sides of the button member. Therefore, when the button member is assembled to the button member mounting groove, the button member blade portions of the button member are vertically inserted into guide grooves, which are formed inside the button member support, thereby enabling easy assembly. Moreover, the coupling grooves, which are formed on the button member blade portions of the button member, are coupled to the coupling protrusions, thereby preventing the button member from falling out of the container body, due to a shock or interference, when the fixing member is assembled after the assembly of the button member.

[Fig. 9]



Description

[Technical Field]

5 **[0001]** The present invention relates to a compact container having a button member enabling easy assembly, and more specifically, to a compact container having a button member enabling easy assembly, the compact container including: a container body having a front side on which the button member is mounted; a container lid hinge-coupled to a back side of the container body; an inner container member mounted on an inner side of the container body, and accommodated therein with a content; and a fixing member fixedly coupled to an inner periphery of the container body to fix the inner container member and the button member, wherein a button member mounting groove in which the button member is mounted is formed on the front side of the container body to fixedly couple the button member to the container body, the button member mounting groove of the container body has an open top, a button member support and a coupling protrusion are formed on an inner side surface of the container body while being adjacent to the button member mounting groove, and a button member blade portion having a coupling groove extends from both sides of the button member, so that when the button member is assembled to the button member mounting groove, the button member blade portion of the button member is vertically fitted into a guide groove formed inside the button member support so as to be easily assembled. In addition, the coupling groove formed in the button member blade portion of the button member is coupled with the coupling protrusion, so that the button member may be prevented from being separated from the container body due to a shock or interference when the fixing member is assembled after the assembly of the button member.

[Background Art]

25 **[0002]** Makeup is for making a beautiful part of a body more beautiful, and for compensating for a weak point of the body. Women put on facial makeup to make their appearance more beautiful.

[0003] In particular, the women put on color makeup as well as base makeup for skin care and beauty, and a cosmetic compact is generally used for the color makeup.

30 **[0004]** In general, a compact container is configured such that a container body and a container lid are coupled to each other by a hinge, in which the container body has an inner container for containing a cosmetic material of a cosmetic product such as solid powder, a lip gloss, and an eye shadow, the container lid covers the cosmetic material on an upper portion of the inner container in order to prevent the cosmetic material contained in the inner container from being contaminated, and the container lid is provided therein with a mirror for convenience of the makeup.

35 **[0005]** As a related art for the compact container, as shown in FIG. 1, there is disclosed Korean Utility Model Registration No. 20-0171448, which is related to a compact container, and more specifically, to a compact in which a container body and a container lid are coupled to each other by a hinge, a fixing member is embedded in the container body, the fixing member is accommodated therein with a cosmetic material, and a button member is mounted between the container body and the fixing member.

[0006] The above related art discloses the compact enabling easy assembly of the compact container, in which the button member is fitted into the container body from an inner upper portion of the container body.

40 **[0007]** However, in the above related art, since the button member is simply fitted to an inner side the container body and covered with the fixing member so as to be assembled to the container body, the button member may be separated during a process of assembling the fixing member, resulting in a high defect rate and low productivity.

45 **[0008]** In order to solve the above problems, as shown in FIG. 2, Korean Patent Registration No. 10-1424591 discloses a compact container in which a fixing member is assembled inside the compact container, an inner container containing a cosmetic material is embedded in the fixing member, and a fixing protrusion is formed around a button hole to install a button member between the compact container and the fixing member. The button hole is formed on a front side of the compact container, and the button member is fitted into the button hole while being fitted to the fixing protrusion so as to be prevented from being separated.

50 **[0009]** The above related art discloses the compact container having a structure in which the fixing member is assembled after the button member is fitted into the button hole and the fixing protrusion of the compact container, so that the button member may be prevented from being separated.

[0010] However, in the above related art, when the button member is assembled with the compact container, the button member has to be fitted into the button hole while being inserted into the fixing protrusion of the compact container, so that the button member is difficult to be assembled.

[Disclosure]

[Technical Problem]

5 **[0011]** To solve the problems described above, an object of the present invention is to provide a compact container having a button member enabling easy assembly, the compact container including: a container body having a front side on which the button member is mounted; a container lid hinge-coupled to a back side of the container body; an inner container member mounted on an inner side of the container body, and accommodated therein with a content; and a
10 fixing member fixedly coupled to an inner periphery of the container body to fix the inner container member and the button member, wherein a button member mounting groove in which the button member is mounted is formed on the front side of the container body to fixedly couple the button member to the container body, the button member mounting groove of the container body has an open top, a button member support and a coupling protrusion are formed on an inner side surface of the container body while being adjacent to the button member mounting groove, and a button member blade portion having a coupling groove extends from both sides of the button member, so that when the button
15 member is assembled to the button member mounting groove, the button member blade portion of the button member is vertically fitted into a guide groove formed inside the button member support so as to be easily assembled. In addition, the coupling groove formed in the button member blade portion of the button member is coupled with the coupling protrusion, so that the button member may be prevented from being separated from the container body due to a shock or interference when the fixing member is assembled after the assembly of the button member.

20 **[0012]** In addition, an object of the present invention is to provide a compact container having a button member enabling easy assembly, in which the coupling groove has a width wider than a width of the coupling protrusion to allow the button member blade portion to move outward in a state that the coupling groove formed in the button member blade portion is coupled with the coupling protrusion, so that when the button member is pressed, the button member blade portion is spread and horizontally moves while being pushed outward in a state that the coupling groove is coupled with the
25 coupling protrusion, thereby enabling the button member to move back and forth without fluctuating up and down.

[0013] In addition, an object of the present invention is to provide a compact container having a button member enabling easy assembly, in which an outer lower edge of the button member blade portion has a round shape, and the coupling protrusion formed on the container body has an inclined upper surface and an angular lower surface, so that when the button member is assembled to the button member mounting groove, the round lower edge of the button member blade
30 portion smoothly rides over the inclined upper surface of the coupling protrusion to allow the coupling groove to be easily coupled with the coupling protrusion, and once the coupling groove is coupled with the coupling protrusion, the coupling groove may be prevented from being separated from the coupling protrusion due to the angular lower surface of the coupling protrusion, thereby tightly coupling a button portion.

35 [Technical Solution]

[0014] According to the present invention, a compact container having a button member enabling easy assembly includes: a container body (10) formed on a front side thereof with a button member mounting groove (11); a container lid (20) hinge-coupled to one side of the container body (10) and opened and closed; an inner container member (30)
40 mounted on an inner side of the container body (10), and accommodated therein with a cosmetic material; a button member (40) mounted in the button member mounting groove (11) of the container body (10); and a fixing member (50) fixedly coupled to an inner periphery of the container body (10) to fix the inner container member (30) and the button member (40), wherein the button member mounting groove (11) of the container body (10) has an open top, and a button member support (12) and a coupling protrusion (14) are formed on an inner side surface of the container body (10) while
45 being adjacent to the button member mounting groove (11), and a button member blade portion (42) having a coupling groove (44) extends from both sides of the button member (40), and the coupling groove (44) of the button member (40) is coupled with the coupling protrusion (14) of the container body (10).

[0015] In addition, a guide groove (13) may be formed inside the button member support (12) of the container body (10), and the button member blade portion (42) of the button member (40) may be vertically fitted into the guide groove (13).

50 **[0016]** In addition, the coupling groove (44) may have a width wider than a width of the coupling protrusion (14) to allow the button member blade portion (42) to be more spread rightward and leftward when the button member (40) is pressed in a state that the coupling groove (44) of the button member (40) is coupled with the coupling protrusion (14) of the container body (10).

[0017] In addition, an outer lower edge (46) of the button member blade portion (42) of the button member (40) may have a round shape.

[0018] In addition, the coupling protrusion (14) of the container body (10) may have an inclined upper surface (142) and an angular lower surface (144).

55 **[0019]** In addition, the inner container member (30) may include: an inner container (31); a pump support (32) coupled

to an upper portion of the inner container; a pump (33) installed at a central upper portion of the pump support (32); a distribution plate (34) coupled to an upper portion of the pump (33); a ring button (35) coupled to an upper portion of the distribution plate (34); and a discharge plate (36) coupled to an upper portion of the distribution plate (34).

[Advantageous Effects]

[0020] According to the present invention, there is provided the compact container having the button member enabling the easy assembly, the compact container including: a container body having a front side on which the button member is mounted; a container lid hinge-coupled to a back side of the container body; an inner container member mounted on an inner side of the container body, and accommodated therein with a content; and a fixing member fixedly coupled to an inner periphery of the container body to fix the inner container member and the button member, wherein a button member mounting groove in which the button member is mounted is formed on the front side of the container body to fixedly couple the button member to the container body, the button member mounting groove of the container body has an open top, a button member support and a coupling protrusion are formed on an inner side surface of the container body while being adjacent to the button member mounting groove, and a button member blade portion having a coupling groove extends from both sides of the button member, so that when the button member is assembled to the button member mounting groove, the button member blade portion of the button member is vertically fitted into a guide groove formed inside the button member support so as to be easily assembled. In addition, the coupling groove formed in the button member blade portion of the button member is coupled with the coupling protrusion, so that the button member can be prevented from being separated from the container body due to a shock or interference when the fixing member is assembled after the assembly of the button member.

[0021] In addition, there is provided the compact container having the button member enabling the easy assembly, in which the coupling groove has a width wider than a width of the coupling protrusion to allow the button member blade portion to move outward in a state that the coupling groove formed in the button member blade portion is coupled with the coupling protrusion, so that when the button member is pressed, the button member blade portion is spread and horizontally moves while being pushed outward in a state that the coupling groove is coupled with the coupling protrusion, thereby enabling the button member to move back and forth without fluctuating up and down.

[0022] In addition, there is provided the compact container having the button member enabling the easy assembly, in which an outer lower edge of the button member blade portion has a round shape, and the coupling protrusion formed on the container body has an inclined upper surface and an angular lower surface, so that when the button member is assembled to the button member mounting groove, the round lower edge of the button member blade portion smoothly rides over the inclined upper surface of the coupling protrusion to allow the coupling groove to be easily coupled with the coupling protrusion, and once the coupling groove is coupled with the coupling protrusion, the coupling groove can be prevented from being separated from the coupling protrusion due to the angular lower surface of the coupling protrusion, thereby tightly coupling a button portion.

[Description of Drawings]

[0023]

FIG. 1 shows a compact container in which a button member is mounted between a container body and a fixing member according to the related art.

FIG. 2 shows a compact container in which a button member is fitted into a button hole according to the related art.

FIG. 3 is a perspective view showing a compact container having a button member enabling easy assembly according to the present invention.

FIG. 4 is an exploded perspective view showing the compact container having the button member enabling the easy assembly according to the present invention.

FIG. 5 is a sectional view taken along line A-A and showing the compact container having the button member enabling the easy assembly according to the present invention.

FIG. 6 is a sectional view taken along line A-A in which a container lid of the compact container having the button member enabling the easy assembly according to the present invention is opened.

FIG. 7 is a perspective view showing a container body, the container lid, and the button member of the compact container having the button member enabling the easy assembly according to the present invention.

FIG. 8 is a sectional view taken along line B-B and showing a state in which the button member of the compact container having the button member enabling the easy assembly according to the present invention is vertically mounted.

FIG. 9 is a sectional view taken along line B-B and showing a state in which the button member of the compact container having the button member enabling the easy assembly according to the present invention is mounted on

the container main body.

FIG. 10 is a plan view showing the container body, the container lid, and the button member of the compact container having the button member enabling the easy assembly according to the present invention.

FIG. 11 is a plan view showing a state in which the button member of the compact container having the button member enabling the easy assembly according to the present invention is pressed.

[Best Mode]

[Mode for Invention]

[0024] Hereinafter, a compact container having a button member enabling easy assembly according to an embodiment of the present invention will be described with reference to the accompanying drawings.

[0025] FIG. 3 is a perspective view showing a compact container having a button member enabling easy assembly according to the present invention, FIG. 4 is an exploded perspective view showing the compact container having the button member enabling the easy assembly according to the present invention, FIG. 5 is a sectional view taken along line A-A and showing the compact container having the button member enabling the easy assembly according to the present invention, and FIG. 6 is a sectional view taken along line A-A in which a container lid of the compact container having the button member enabling the easy assembly according to the present invention is opened.

[0026] According to the present invention, the compact container having the button member enabling the easy assembly includes: a container body (10) formed on a front side thereof with a button member mounting groove (11); a container lid (20) hinge-coupled to one side of the container body (10) and opened and closed; an inner container member (30) mounted on an inner side of the container body (10), and accommodated therein with a cosmetic material; a button member (40) mounted in the button member mounting groove (11) of the container body (10); and a fixing member (50) fixedly coupled to an inner periphery of the container body (10) to fix the inner container member (30) and the button member (40), wherein the button member mounting groove (11) of the container body (10) has an open top, and a button member support (12) and a coupling protrusion (14) are formed on an inner side surface of the container body (10) while being adjacent to the button member mounting groove (11), and a button member blade portion (42) having a coupling groove (44) extends from both sides of the button member (40), and the coupling groove (44) of the button member (40) is coupled with the coupling protrusion (14) of the container body (10).

[0027] The container body (10) is formed therein with an inner container member accommodation space (15) for accommodating the inner container member (30), and formed on the inner side surface thereof with a mounting protrusion (16).

[0028] The container body (10) is formed on one side thereof with the button member mounting groove (11) having the open top.

[0029] The button member support (12) and the coupling protrusion (14) are formed on the inner side surface of the container body (10) while being adjacent to the button member mounting groove (11) of the container body (10).

[0030] A guide groove (13) is formed inside the button member support (12), and the button member blade portion (42) of the button member (40) is vertically fitted into the guide groove (13).

[0031] The coupling protrusion (14) has an inclined upper surface (142) and an angular lower surface (144).

[0032] A latching protrusion (41) is formed on an upper portion of the button member (40), the button member blade portion (42) having the coupling groove (44) extends from the both sides of the button member (40), and the coupling groove (44) of the button member (40) is coupled with the coupling protrusion (14) of the container body (10).

[0033] In other words, when the button member (40) is assembled to the button member mounting groove (11) of the container body (10), the button member blade portion (42) of the button member (40) is vertically fitted into the guide groove (13) formed inside the button member support (12) so as to be easily assembled.

[0034] In addition, since the coupling groove (44) formed in the button member blade portion (42) of the button member (40) is coupled with the coupling protrusion (14) of the container body (10), the button member (40) may be prevented from being separated from the container body (10) due to a shock or interference when the fixing member (50) is assembled after the assembly of the button member (40).

[0035] In addition, the coupling groove (44) has a width wider than a width of the coupling protrusion (14) to allow the button member blade portion (42) to be more spread rightward and leftward when the button member (40) is pressed in a state that the coupling groove (44) of the button member (40) is coupled with the coupling protrusion (14) of the container body (10).

[0036] In other words, when the button member (40) is pressed, the button member blade portion (42) is spread rightward and leftward and horizontally moves while being pushed outward in a state that the coupling groove (44) is coupled with the coupling protrusion (14), so that the button member (40) may move back and forth without fluctuating up and down.

[0037] An outer lower edge (46) of the button member blade portion (42) of the button member (40) has a round shape.

[0038] In other words, the outer lower edge (46) of the button member blade portion (42) has the round shape, and the coupling protrusion (14) of the container body (10) has the inclined upper surface (142) and the angular lower surface (144), so that when the button member (40) is assembled to the button member mounting groove (11), the round lower edge (46) of the button member blade portion (42) smoothly rides over the inclined upper surface (142) of the coupling protrusion (14) to allow the coupling groove (44) to be easily coupled with the coupling protrusion (14), and once the coupling groove (44) is coupled with the coupling protrusion (14), the coupling groove (44) is prevented from being separated from the coupling protrusion (14) due to the angular lower surface (144) of the coupling protrusion (14).

[0039] The container lid (20) is for opening and closing the container body (10), and a hook (21) having a shape of a protrusion is formed on one side of the container lid (20) at a position corresponding to the button member mounting groove (11) of the container body (10) so as to be fastened with the latching protrusion (41) of the button member (40).

[0040] In addition, a mirror (22) is provided on an inner side of the container lid (20) so that the user may easily put on the makeup.

[0041] The inner container member (30) includes: an inner container (31); a pump support (32) coupled to an upper portion of the inner container; a pump (33) installed at a central upper portion of the pump support (32); a distribution plate (34) coupled to an upper portion of the pump (33); a ring button (35) coupled to an upper portion of the distribution plate (34); and a discharge plate (36) coupled to an upper portion of the distribution plate (34).

[0042] The inner container (31) is formed on an inner side thereof with a push plate (311) for pushing up contents, and the push plate (311) makes close contact with an inner side surface of the inner container (31).

[0043] The inner container (31) includes: a bottom surface (312); an inner wall (313) extending upward from the bottom surface (312); and an outer wall (314) spaced outward from the inner wall (313) by a predetermined interval.

[0044] The inner container (31) is inserted into the inner container member accommodation space (15) of the container body (10), and a fastening groove (315) is formed at an inner periphery of the outer wall (314) of the inner container (31).

[0045] An airflow hole (316) through which external airflows is formed in the bottom surface (312) of the inner container (31).

[0046] The pump support (32) has a shape of a plate, and is coupled to the upper portion of the inner container (31) to seal the inner container (31).

[0047] A cylinder (331) is integrally formed at a center of the pump support (32), a bushing coupling groove (321) to which a bushing (333) of the pump (33) is coupled is formed on an outer side of the cylinder (331), and a lower extension protrusion wheel (322) extends downward from the outer side of the pump support (32).

[0048] A fastening protrusion (323) is formed on an outer periphery of the lower extension protrusion wheel (322) of the pump support (32) so as to be coupled with the fastening groove (315) of the inner container (31), and a stepped sill (324) protrudes from an upper side of the fastening protrusion (323).

[0049] The pump (33) includes: a cylinder (331) formed on a central upper side of the pump support (32), and formed in a bottom surface thereof with a content suction hole (338); a suction valve plate (332) mounted on the bottom surface of the cylinder (331) to selectively open and close the content suction hole (338); a bushing (333) coupled to an outer side of the cylinder (331) while being placed on an upper end of the cylinder (331); a piston (334) formed on an inner side of the cylinder (331); a piston ring (335) fitted to an outer side of the piston (335), and making close contact with an inner side surface of the cylinder (331); an up-down movement member (336) coupled to an upper portion of the piston (334) to move up and down; and an elastic member (337) for elastically supporting the up-down movement member (336).

[0050] An inner extension protrusion wheel (336a) coupled to the piston (334) extends from a central lower side of the up-down movement member (336), and an outer extension protrusion wheel (336b) fitted to the outer side of the piston ring (335) extends from a position spaced outward from the inner extension protrusion wheel (336a) by a predetermined interval.

[0051] In addition, an upper extension protrusion wheel (336c) to which the distribution plate (34) is coupled extends from a central upper side of the up-down movement member (336).

[0052] A plurality of discharge passages (336d) through which pumped contents pass are formed between the inner extension protrusion wheel (336a) and the outer extension protrusion wheel (336b) of the up-down movement member (336).

[0053] *The piston ring (335) has an upper portion spread outward, a close-contact protrusion wheel (335a) protrudes from an upper outer periphery of the piston ring (335), and a piston blade (335b) making close contact with an inner side wall of the cylinder (331) is formed on a lower side of the close-contact protrusion wheel (335a).

[0054] A through-hole (333a) through which the outer extension protrusion wheel (336b) of the up-down movement member (336) passes is formed at a center of the bushing (333), an inner horizontal extension piece (333b) extends from an inner side of the through-hole (333a), a plurality of elastic member mounting portions (333c) are formed on an outer side of the through-hole (333a), and an outer horizontal extension piece (333d) fitted to the pump support (32) is formed on an outer side of the elastic member mounting portion (333c).

[0055] Preferably, an inner end of the inner horizontal extension piece (333b) of the bushing (333) has a round shape.

[0056] A gap (39) of 0.3 mm to 1.2 mm is formed between the inner horizontal extension piece (333b) of the bushing (333) and the outer extension protrusion wheel (336b) of the up-down movement member (336), so that the up-down movement member (336) may be movable within the bushing (333).

[0057] In other words, the piston ring (335) has the upper portion spread outward, the close-contact protrusion wheel (335a) is formed at the upper portion of the piston ring (335) to make close contact with and to be fitted to an inner side of the outer extension protrusion wheel (336b) of the up-down movement member (336), and the piston blade (335b) is formed at a lower portion of the piston ring (335) to make close contact with the inner side surface of the cylinder (331). Accordingly, even if the up-down movement member (336) is pressed while being tilted to one side, an inside of the cylinder (331) is sealed by the piston ring (335), so that the pump (33) can be normally operated.

[0058] Therefore, even if the up-down movement member (336) is tilted when the user presses a portion other than a central portion of the discharge plate (36) without vertically pressing the central portion of the discharge plate (36), the piston ring (335) is normally operated inside the cylinder (331) so that the contents are easily pumped.

[0059] The distribution plate (34) is formed on an upper surface thereof with a content discharge path (342) through which the contents move, and formed at a center thereof with a coupling hole (343) to which the upper extension protrusion wheel (336c) of the up-down movement member (336) is fitted.

[0060] The ring button (35) is seated on an upper portion of the distribution plate (34), a pressing portion (351) protrudes upward from one side of the ring button (35), and an axial protrusion (352) is formed on an outer side opposite to the pressing portion (351).

[0061] The distribution plate (34) is formed on an upper side thereof with the discharge plate (36), in which the discharge plate (36) is seated on the upper surface of the distribution plate (34) while being seated on an upper portion of the ring button (35), and formed therein with a plurality of discharge holes (361).

[0062] A discharge protrusion wheel (362) seated in the content discharge path (342) of the distribution plate (60) extends from a lower side of each discharge hole (361), and the discharge protrusion wheel (362) is open at one side of an outer periphery thereof so that the contents may pass through the discharge protrusion wheel (362).

[0063] Preferably, the discharge plate (36) is attached to the upper surface of the distribution plate (34) by a double adhesive tape.

[0064] In addition, the inner container member (30) is formed on an upper portion thereof with the fixing member (50) for fixing the inner container member (30) and the button member (40) so as to prevent the inner container member (30) and the button member (40) from being separated.

[0065] A mounting groove (51) is formed at an outer periphery of the fixing member (50) so as to be coupled with the mounting protrusion (16) of the container body (10).

[0066] A lower end of the fixing member (50) presses and fixes an upper surface of the stepped sill (324) of the pump support (32), and an axial coupling groove (52) is formed on one side of the outer periphery of the fixing member (50) so as to be fitted with the axial protrusion (352) of the ring button (35).

[0067] Hereinafter, a method of assembling the compact container having the button member enabling the easy assembly, which has the above configuration, will be described.

[0068] FIG. 7 is a perspective view showing a container body, the container lid, and the button member of the compact container having the button member enabling the easy assembly according to the present invention, FIG. 8 is a sectional view taken along line B-B and showing a state in which the button member of the compact container having the button member enabling the easy assembly according to the present invention is vertically mounted, and FIG. 9 is a sectional view taken along line B-B and showing a state in which the button member of the compact container having the button member enabling the easy assembly according to the present invention is mounted on the container main body.

[0069] In order to assemble the compact container having the button member enabling the easy assembly according to the present invention, first, as shown in FIG. 7, the button member (40) is mounted in the button member mounting groove (11) of the container body (10), such that the button member blade portion (42) of the button member (40) is vertically fitted into the guide groove (13) formed inside the button member support (12) of the container body (10).

[0070] At this time, the coupling groove (44) of the button member (40) is coupled with the coupling protrusion (14) of the container body (10), in which the round lower edge (46) of the button member blade portion (42) smoothly rides over the inclined upper surface (142) of the coupling protrusion (14) to allow the coupling groove (44) to be easily coupled with the coupling protrusion (14) as shown in FIG. 8, and once the coupling groove (44) is coupled with the coupling protrusion (14), the coupling groove (44) is prevented from being separated from the coupling protrusion (14) due to the angular lower surface (144) of the coupling protrusion (14) as shown in FIG. 9.

[0071] Next, the inner container member (30) is assembled as shown in FIGS. 4 and 5, in which the push plate (311) is fitted into the inner container (31), the cosmetic material is injected into the inner container (31), the pump support (32) is coupled to the upper portion of the inner container (31), the pump (33) is installed on the upper portion of the pump support (32), the distribution plate (34) is coupled to the upper portion of the up-down movement member (336) of the pump (33), the ring button (35) is mounted on the upper portion of the distribution plate (34), and the discharge plate (36) is seated on the upper portion of the ring button (35) while being seated on the upper surface of the distribution

plate (34).

[0072] Next, the inner container member (30) assembled as described above is inserted into the container body (10) having one side hinge-coupled with the container lid (20).

[0073] Finally, the fixing member (50) is coupled to the upper portion of the inner container member (30), in which the fixing member (50) has the mounting groove (51) coupled to the mounting protrusion (16) of the container body (10), and has the axial coupling groove (52) fitted with the axial protrusion (352) of the ring button (35), thereby completing the assembly of the compact container having the button member enabling the easy assembly according to the present invention.

[0074] Hereinafter, a method of using the compact container having the button member enabling the easy assembly, which is assembled as described above, will be described.

[0075] FIG. 10 is a plan view showing the container body, the container lid, and the button member of the compact container having the button member enabling the easy assembly according to the present invention, and FIG. 11 is a plan view showing a state in which the button member of the compact container having the button member enabling the easy assembly according to the present invention is pressed.

[0076] In order to use the compact container having the button member enabling the easy assembly according to the present invention, first, the button member (40) is pressed to open the container lid (20) from the container body (10).

[0077] At this time, the button member blade portion (42) of the button member (40) is spread rightward and leftward and horizontally moves while being pushed rightward and leftward in a state that the coupling groove (44) is coupled with the coupling protrusion (14), so that the button member (40) may move back and forth without fluctuating up and down.

[0078] Next, the pressing portion (351) of the ring button (35) or the upper surface of the discharge plate (36) is pressed.

[0079] When the pressing portion (351) is pressed, the ring button (35) is tilted and moves downward, and the distribution plate (34) mounted at a lower side of the ring button (35) moves downward together with the ring button (35).

[0080] In addition, when the discharge plate (36) is directly pressed, the distribution plate (34) coupled to the discharge plate (36) is pressed and moves downward together with the discharge plate (36), and the up-down movement member (336) of the pump (33) coupled to the distribution plate (34) moves downward.

[0081] The piston (334) coupled to a lower side of the up-down movement member (336) moves downward together with the up-down movement member (336) by the downward movement of the up-down movement member (336). At this time, since the piston ring (335) makes close contact with the inner side surface of the cylinder (331), only the piston (334) moves downward to generate a gap between the piston (334) and the piston ring (335), thereby forming a discharge passage for the cosmetic material.

[0082] Thereafter, when the up-down movement member (336) is continuously pressed, the piston ring (335) makes contact with the up-down movement member (336) and moves downward together with the piston (334), so that a volume inside the cylinder (331) is reduced. Accordingly, the cosmetic material accommodated in the cylinder (331) flows out between the piston (334) and the piston ring (335), passes through the discharge passage (336d) of the up-down movement member (336), passes through the content discharge path (342) of the distribution plate (34), and is discharged through the discharge hole (361) of the discharge plate (36).

[0083] At the same time, the suction valve plate (332) closes the content suction hole (338) formed in the bottom surface of the cylinder (331) by a discharge pressure in the cylinder (331).

[0084] Then, when the pressing of the pressing portion (351) of the ring button (35) or the discharge plate (36) is released, due to the elasticity of the elastic member (337) for elastically supporting the up-down movement member (336), the up-down movement member (336) moves upward, and the piston (334) coupled to the lower side of the up-down movement member (336) moves upward. At this time, as an expansion protrusion wheel (334a) formed on an outer side of the lower end of the piston (334) pulls the piston ring (335) upward, the gap between the piston (334) and the piston ring (335) is blocked, and the piston (334) and the piston ring (335) move upward together, so that the volume inside the cylinder (331) is increased, resulting in generation of a vacuum pressure.

[0085] As a suction valve blade (332a) of the suction valve plate (332) is lifted by the vacuum pressure generated inside the cylinder (331), the content suction hole (338) formed in the bottom surface of the cylinder (331) is opened, so that the cosmetic material accommodated in the inner container (31) is introduced into the cylinder (331) through the content suction hole (338) while the push plate (311) installed in the inner container (31) moves upward.

[0086] As described above, although the compact container having the button member enabling easy assembly according to one embodiment of the present invention has been described for illustrative purposes, the present invention is not limited thereto. It is understood that various changes and modifications can be made by those skilled in the art without departing from the spirit and scope of the present invention as disclosed in the appended claims.

[Description of Reference numerals]

10: Container body	11: Button member mounting groove
12: Button member support	13: Guide groove

(continued)

14: Coupling protrusion	20: Container lid
30: Inner container member	31: Inner container
32: Pump support	33: Pump
34: Distribution plate	35: Ring button
36: Discharge plate	40: Button member
41: Latching protrusion	42: Button member blade portion
44: Coupling groove	46: Outer lower edge
50: Fixing member	

Claims

1. A compact container having a button member enabling easy assembly, the compact container comprising:

a container body (10) formed on a front side thereof with a button member mounting groove (11);
a container lid (20) hinge-coupled to one side of the container body (10) and opened and closed;
an inner container member (30) mounted on an inner side of the container body (10), and accommodated therein
with a cosmetic material;
a button member (40) mounted in the button member mounting groove (11) of the container body (10); and
a fixing member (50) fixedly coupled to an inner periphery of the container body (10) to fix the inner container
member (30) and the button member (40),
wherein the button member mounting groove (11) of the container body (10) has an open top, and a button
member support (12) and a coupling protrusion (14) are formed on an inner side surface of the container body
(10) while being adjacent to the button member mounting groove (11), and
a button member blade portion (42) having a coupling groove (44) extends from both sides of the button member
(40), and the coupling groove (44) of the button member (40) is coupled with the coupling protrusion (14) of the
container body (10).

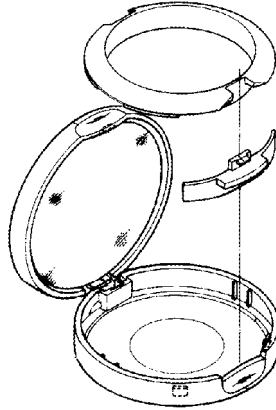
2. The compact container of claim 1, wherein a guide groove (13) is formed inside the button member support (12) of
the container body (10), and the button member blade portion (42) of the button member (40) is vertically fitted into
the guide groove (13).

3. The compact container of claim 1, wherein the coupling groove (44) has a width wider than a width of the coupling
protrusion (14) to allow the button member blade portion (42) to be more spread rightward and leftward when the
button member (40) is pressed in a state that the coupling groove (44) of the button member (40) is coupled with
the coupling protrusion (14) of the container body (10).

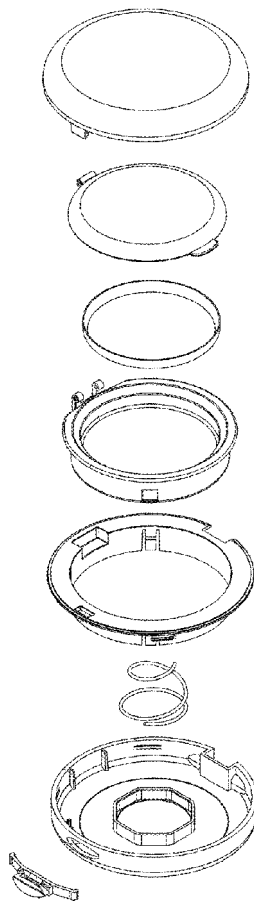
4. The compact container of claim 1, wherein an outer lower edge (46) of the button member blade portion (42) of the
button member (40) has a round shape.

5. The compact container of claim 1, wherein the coupling protrusion (14) of the container body (10) has an inclined
upper surface (142) and an angular lower surface (144).

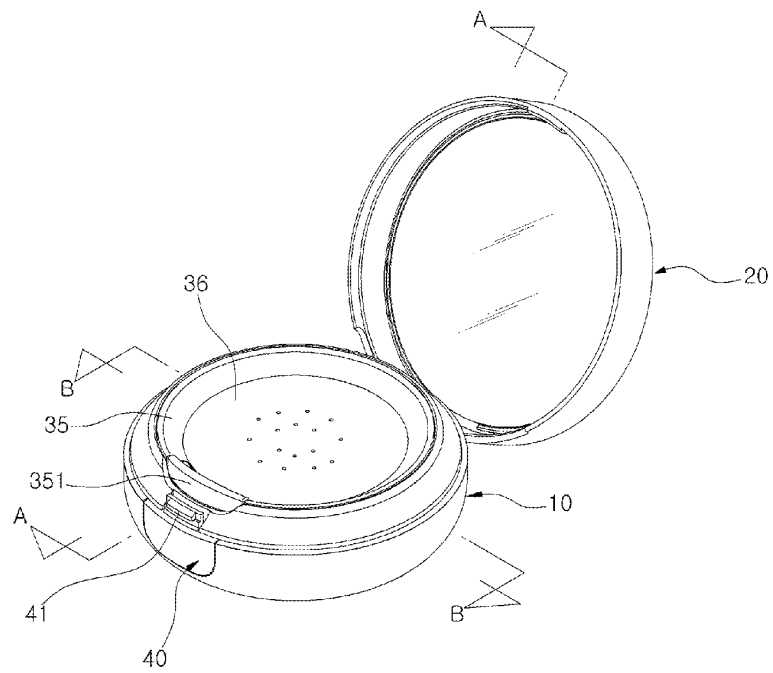
[Fig. 1]



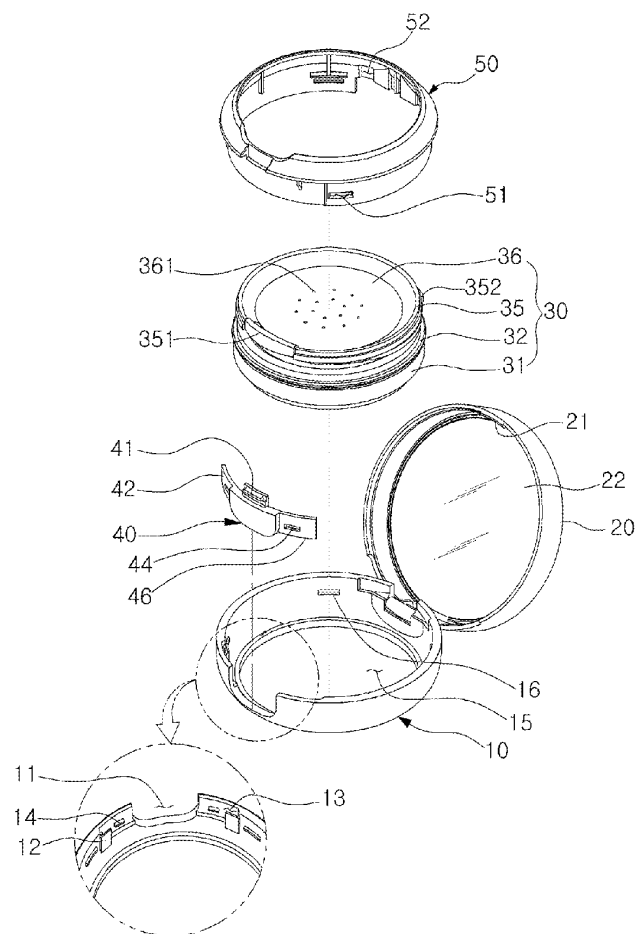
[Fig. 2]



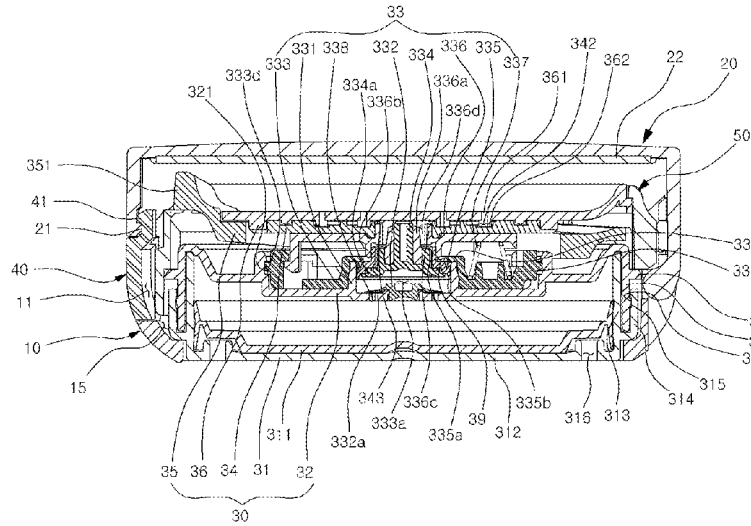
[Fig. 3]



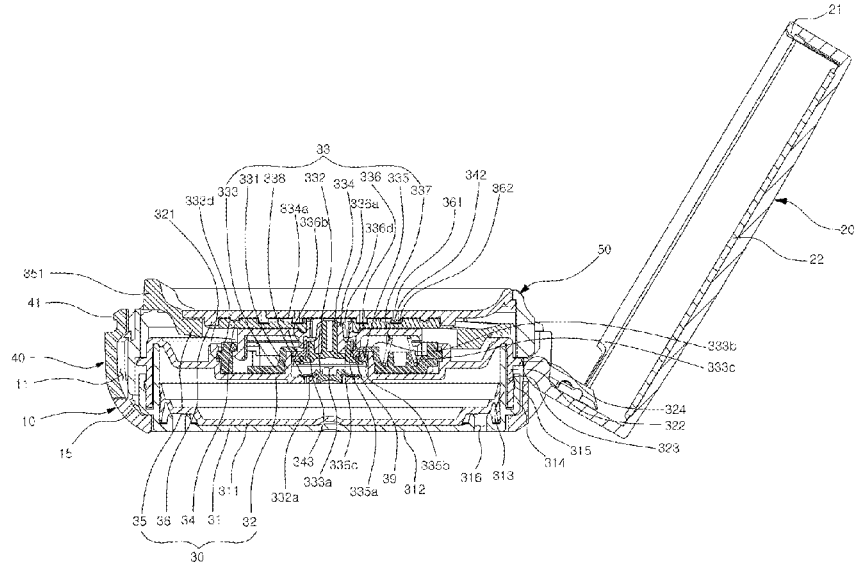
[Fig. 4]



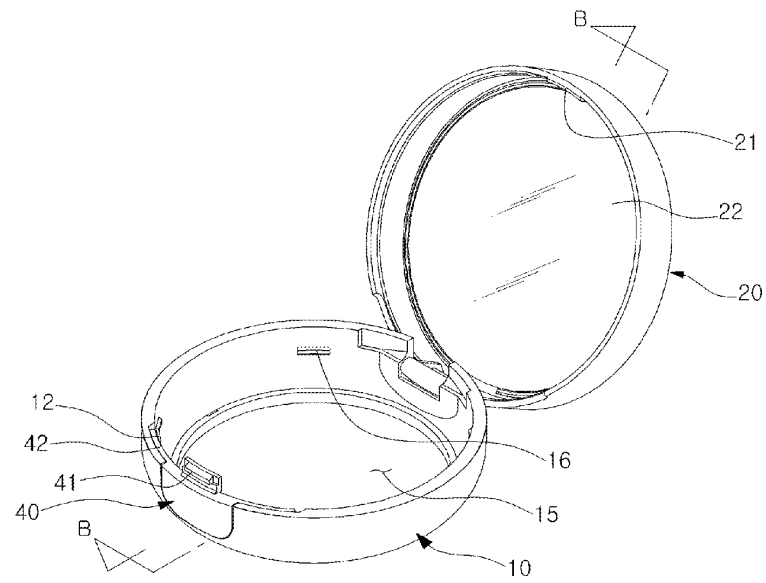
[Fig. 5]



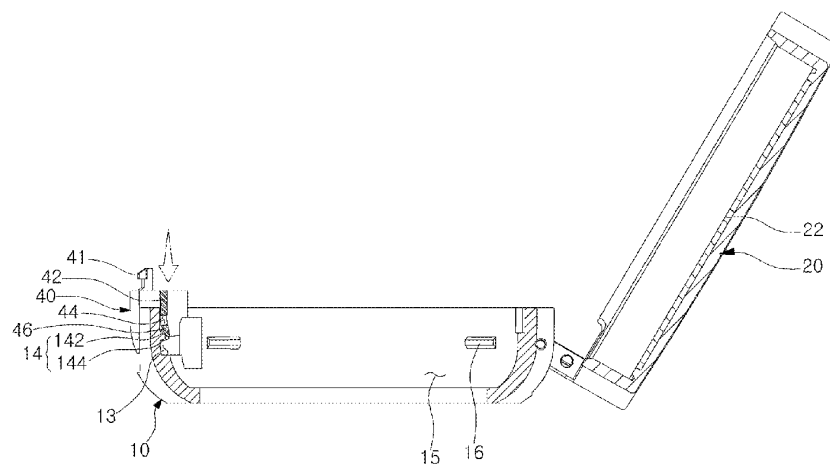
[Fig. 6]



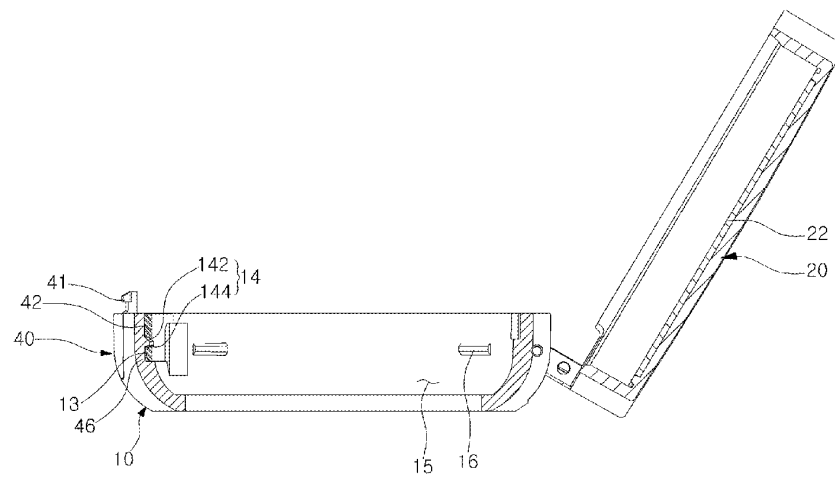
[Fig. 7]



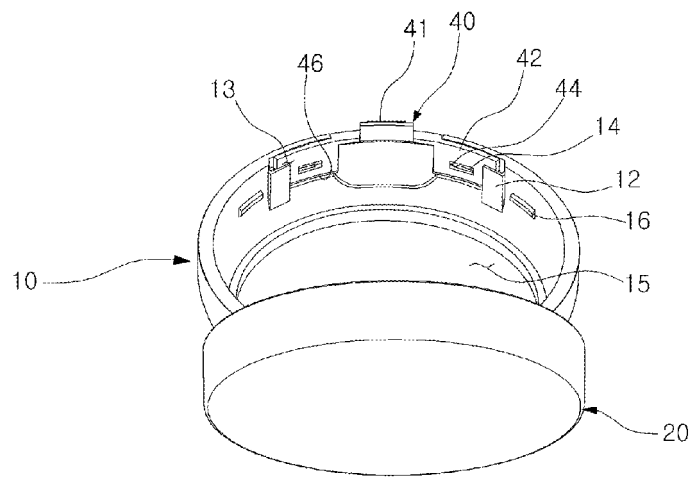
[Fig. 8]



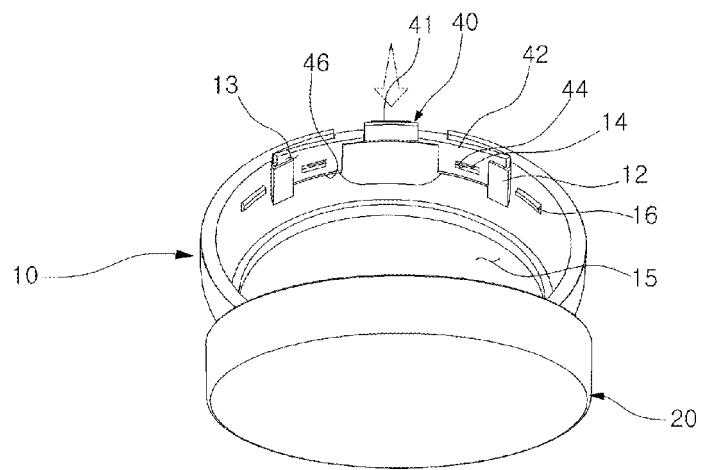
[Fig. 9]



[Fig. 10]



[Fig. 11]



INTERNATIONAL SEARCH REPORT

International application No.
PCT/KR2016/007369

A. CLASSIFICATION OF SUBJECT MATTER

A45D 33/00(2006.01)i, B65D 77/04(2006.01)i

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

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

A45D 33/00; A45D 33/04; A45D 33/24; A45D 33/02; B65D 77/04

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: compact, button, coupling, projection, blade

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	KR 20-0458617 Y1 (ILLUPACK CO., LTD.) 07 March 2012 See claim 1; figures 4-6.	1-5
A	KR 10-1424591 B1 (GROW CO., LTD.) 01 August 2014 See the entire document.	1-5
A	KR 10-0933621 B1 (KIM, Young - Sun) 24 December 2009 See the entire document.	1-5
A	KR 10-1449663 B1 (CTK CO., LTD.) 13 October 2014 See the entire document.	1-5
A	US 7841349 B2 (BENNETT, K. M.) 30 November 2010 See the entire document.	1-5

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

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

Date of the actual completion of the international search

01 NOVEMBER 2016 (01.11.2016)

Date of mailing of the international search report

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INTERNATIONAL SEARCH REPORT Information on patent family members

International application No.

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KR 10-0933621 B1	24/12/2009	NONE	
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REFERENCES CITED IN THE DESCRIPTION

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