(19) Europäisches Patentamt
European Patent Office
Office européen des brevets

(11) **EP 3 443 862 A1**

(12) **EUROPEAN PATENT APPLICATION**
published in accordance with Art. 153(4) EPC

(43) Date of publication:
20.02.2019 Bulletin 2019/08

(21) Application number: **17820490.5**

(22) Date of filing: **26.06.2017**

(51) Int Cl.:
A45D 40/26 *(2006.01)* ***A45D 40/22*** *(2006.01)*
B65D 83/00 *(2006.01)* ***B65D 47/00*** *(2006.01)*
B65D 77/04 *(2006.01)* ***A45D 40/00*** *(2006.01)*

(86) International application number:
PCT/KR2017/006698

(87) International publication number:
WO 2018/004214 (04.01.2018 Gazette 2018/01)

(84) Designated Contracting States:
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR
Designated Extension States:
BA ME
Designated Validation States:
MA MD

(30) Priority: **27.06.2016 KR 20160080097**

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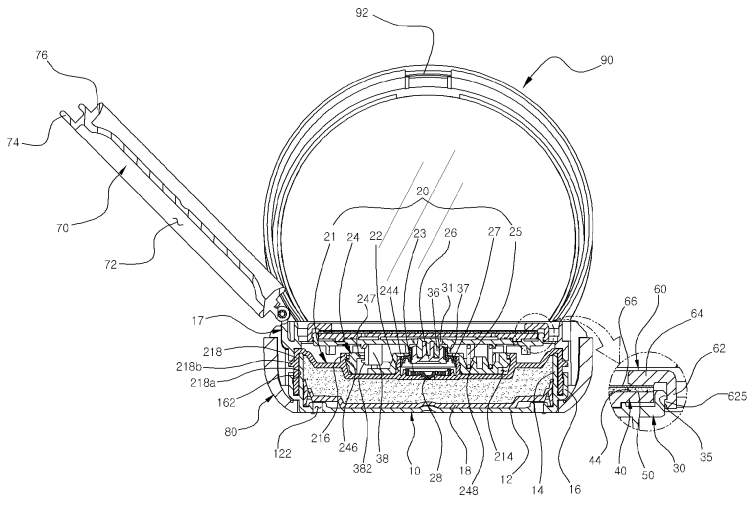
(54) COMPACT CONTAINER HAVING MIXING CUSHION AND MIXING MESH

(57) The present invention relates to a compact container having a mixing cushion and a mixing mesh, and more specifically, to a compact container having a mixing cushion and a mixing mesh, the compact container comprising: a discharge means installed in an upper part of an inner container for receiving a cosmetic material; a distribution plate and a discharge plate, both coupled to an upper part of the discharge means; a mixing cushion formed on an upper surface of the discharge plate; and a mixing mesh formed to surround an upper surface of the mixing cushion, wherein, when the mixing mesh is pressed by a puff, the cosmetic material is discharged by the discharge means to be uniformly mixed while being absorbed into the mixing cushion, and is then discharged through the mixing mesh to uniformly smear the entire lower surface of the puff. Therefore, the compact container enables a user to easily use a uniformly mixed cosmetic material.

Fig. 5



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Description

[Technical Field]

[0001] The present invention relates to a compact container having a mixing cushion and a mixing mesh, and more specifically, to a compact container having a mixing cushion and a mixing mesh, the compact container comprising: a discharge means installed in an upper part of an inner container for receiving a cosmetic material; a distribution plate and a discharge plate, both coupled to an upper part of the discharge means; a mixing cushion formed on an upper surface of the discharge plate; and a mixing mesh formed to surround an upper surface of the mixing cushion, wherein, when the mixing mesh is pressed by a puff, the cosmetic material is discharged by the discharge means to be uniformly mixed while being absorbed into the mixing cushion, and is then discharged through the mixing mesh to uniformly smear the entire lower surface of the puff. Therefore, the compact container enables a user to easily use a uniformly mixed cosmetic material.

[Background Art]

[0002] In general, cosmetics are used mainly for women to make their appearance beautiful, and there are various kinds of cosmetics according to a function and a form.

[0003] The cosmetics are classified into base makeup cosmetics and point makeup cosmetics used for eyes, eyebrows, lips, or the like. The base makeup cosmetics include a foundation and a blusher, and the point makeup cosmetics include an eye shadow, a mascara, an eye-liner, and a lipstick.

[0004] The foundation is classified into solid type foundation, liquid type foundation and gel type foundation according to a type of cosmetic contents. In case of the solid type foundation, although the solid-type foundation has a good cover effect, the makeup is united when the makeup is refreshed. In case of the liquid type foundation, although the liquid type foundation gives a good close contact feel, the persistency is weak.

[0005] Thus, recently, the number of customers who prefer the gel type foundation, which provides a freshness with lightness and moisture, has been increased.

[0006] However, when the gel type foundation is used after filled in the conventional container, it is difficult to use the same amount of a cosmetic material for every makeup, and the cosmetic material is contaminated with bacteria and wastes due to repeated contacts on the cosmetic material by a hand of a user or a puff.

[0007] To solve the problem, as shown in FIG. 1, Korean Patent Registration No. 10-1566114 has been disclosed a cosmetic container. According to the related art, the cosmetic container includes a discharge means for discharging a cosmetic material to the outside; and a discharge plate provided on one side of the discharge means from which the cosmetic material is discharged, formed with at least one outlet, and exposed to the outside to come into contact with the user's puff, wherein the cosmetic material is discharged from the discharge means by pressing the discharge plate.

[0008] However, according to the conventional cosmetic container, when the discharged cosmetic material is puffed to makeup, the cosmetic material is not uniformly applied to a lower surface of the puff as a whole, but partially applied to the lower surface of the puff, and thus it is difficult to uniformly spread the cosmetic material on a skin.

[0009] To solve the above problem, as shown in FIG. 2, the applicant of the present invention has filed an application for a compact container with Korean Utility Model Registration No. 20-0470757, in which an airless pump is installed inside the conventional compact container, and a mixing member (1) is provided at an upper end of the airless pump, so that a cosmetic material discharged in a fixed amount by the airless pump is uniformly mixed by the mixing member (1).

[0010] However, according to the conventional compact container, since the mixing member (1) is installed and fixed on an upper portion of the distribution member (2), and the distribution member (2) is fixed to an upper portion of the airless pump, only the mixing member (1) cannot be replaced when the mixing member (1) is contaminated, and thus the entire compact container is required to be replaced, thereby wasting resources and causing an economic burden to the user.

[Disclosure]

[Technical Problem]

[0011] To solve the above problems, the present invention provides a compact container having a mixing cushion and a mixing mesh, in which a discharge device is installed on an upper portion of the inner container for containing a cosmetic material, and a discharge plate and a distribution plate are coupled to an upper portion of the discharge device, wherein a mixing cushion is provided on an upper surface of the discharge plate, a mixing mesh is provided to surround an upper surface of the mixing cushion, and thus, when the mixing mesh is pressed by a puff, the cosmetic material discharged by the discharge device is absorbed into the mixing cushion, uniformly mixed, discharged through the mixing mesh, and

then uniformly applied onto an entire lower surface of the puff, so that the user easily uses the uniformly mixed cosmetic material.

[0012] In addition, the present invention provides a compact container having a mixing cushion and a mixing mesh, in which the mixing mesh configured to be joined to the inside of the ring-shaped fixture, and the ring-shaped fixture is configured to fix the mixing cushion and be detached from or attached to the distribution plate or the discharge plate, so that the mixing cushion is conveniently replaced simply by separating the ring-shaped fixture from the distribution plate when the mixing cushion is contaminated.

[Technical Solution]

[0013] The present invention provides a compact container having a mixing cushion and a mixing mesh, which includes:
an inner container (10) for containing a cosmetic material therein;
a discharge device (20) for discharging the cosmetic material contained in the inner container (10);
a distribution plate (30) for diffusing the cosmetic material discharged by the discharge device (20);
a discharge plate (40) for discharging the cosmetic material diffused by the distribution plate (30) through an outlet (42);
a mixing cushion (50) provided on the discharge plate (40) to uniformly mix the cosmetic material; and
a ring-shaped fixture (60) detachably coupled to the distribution plate (30) or the discharge plate (40) while surrounding the mixing cushion (50), and provided at a center thereof with a mixing mesh (66).

[0014] In addition, the inner container (10) is coupled at an outer side thereof with an outer container (80) and an outer container lid (90) for opening/closing the outer container (80).

[0015] In addition, the discharge device (20) is provided at an outer periphery of a pump housing (21) thereof with an inner container coupling shoulder (17), and the inner container coupling shoulder (17) has one side coupled to a shoulder lid (70) for opening and closing the inner container coupling shoulder (17).

[0016] In addition, the discharge device (20) may be a pump for pumping and discharging the cosmetic material to the outside.

[0017] In addition, the discharge plate (40) may be formed on an upper surface thereof with a movement preventing protrusion wheel (44) for preventing the mixing cushion (50) from moving.

[0018] In addition, the mixing cushion (50) may be formed of at least one material selected from the group including butadiene rubber (BR), styrene butadiene rubber (SBR), natural rubber (NR), wet urethane, dry urethane, polyether, polyester, polyvinyl chloride, polyethylene, ethylene vinyl acetate, latex, silicone, polystyrene polyisoprene polystyrene, polystyrene polyethylene butylene polystyrene, polyvinyl alcohol (PVA), silicone elastomer, nitrile rubber, butyl rubber, and neoprene.

[0019] In addition, the ring-shaped fixture (60) includes a coupling part (62) detachably coupled to the distribution plate (30) or the discharge plate (40), and a joining part (64) extending inside the coupling part (62) and joined to the mixing mesh (66).

[Advantageous Effects]

[0020] According to the compact container having the mixing cushion and the mixing mesh of the present invention, a discharge device is installed on an upper portion of the inner container for containing a cosmetic material, and a discharge plate and a distribution plate are coupled to an upper portion of the discharge device, in which a mixing cushion is provided on an upper surface of the discharge plate, a mixing mesh is provided to surround an upper surface of the mixing cushion, and thus, when the mixing mesh is pressed by a puff, the cosmetic material discharged by the discharge device is absorbed into the mixing cushion, uniformly mixed, discharged through the mixing mesh, and then uniformly applied onto an entire lower surface of the puff, so that the user can easily use the uniformly mixed cosmetic material.

[0021] In addition, according to the compact container having the mixing cushion and the mixing mesh of the present invention, the mixing mesh is configured to be joined to the inside of the ring-shaped fixture, and the ring-shaped fixture is configured to fix the mixing cushion and be detached from or attached to the distribution plate or the discharge plate, so that the mixing cushion can be conveniently replaced simply by separating the ring-shaped fixture from the distribution plate when the mixing cushion is contaminated.

[Description of Drawings]

[0022]

FIG. 1 is a view showing a conventional cosmetic container.
FIG. 2 is a view showing a conventional compact container.
FIG. 3 is a perspective view showing a compact container having a mixing cushion and a mixing mesh according

to the present invention.

FIG. 4 is an exploded perspective view showing a compact container having a mixing cushion and a mixing mesh according to the present invention.

FIG. 5 is a sectional view showing a compact container having a mixing cushion and a mixing mesh according to the present invention.

FIG. 6 is a sectional view showing a state of a cosmetic material discharged when a discharge plate of a compact container having a mixing cushion and a mixing mesh according to the present invention is pressed.

FIG. 7 is a sectional view showing a state of a cosmetic material introduced into a cylinder when a press of a discharge plate of a compact container having a mixing cushion and a mixing mesh according to the present invention is released.

FIG. 8 is a partial perspective view showing a state of a distribution plate, a mixing cushion and a ring-shaped fixture which are coupled to a discharge plate of a compact container having a mixing cushion and a mixing mesh according to the present invention.

[Best Mode]

[Mode for Invention]

[0023] Hereinafter, an embodiment of the compact container having a mixing cushion and a mixing mesh according to the present invention will be described with reference to the accompanying drawings.

[0024] FIG. 3 is a perspective view showing a compact container having a mixing cushion and a mixing mesh according to the present invention. FIG. 4 is an exploded perspective view showing a compact container having a mixing cushion and a mixing mesh according to the present invention. FIG. 5 is a sectional view showing a compact container having a mixing cushion and a mixing mesh according to the present invention.

[0025] The compact container having a mixing cushion and a mixing mesh according to the present invention includes: an inner container (10) for containing a cosmetic material therein; a discharge device (20) for discharging the cosmetic material contained in the inner container (10); a distribution plate (30) for diffusing the cosmetic material discharged by the discharge device (20); a discharge plate (40) for discharging the cosmetic material diffused by the distribution plate (30) through an outlet (42); a mixing cushion (50) provided on the discharge plate (40) to uniformly mix the cosmetic material; and a ring-shaped fixture (60) detachably coupled to the distribution plate (30) or the discharge plate (40) while surrounding the mixing cushion (50), and provided at a center thereof with a mixing mesh (66).

[0026] A gel or liquid cosmetic material is contained inside the inner container (10), in which the inner container (10) includes an inner container bottom surface (12), an inner wall (14) upwardly extending from the inner container bottom surface (12), and an outer wall (16) outwardly spaced apart at a predetermined interval and upwardly extending from the inner wall (14).

[0027] An air flow hole (122) for introducing external air is formed in the inner container bottom surface (12) of the inner container (10).

[0028] A coupling groove (162) is formed on an inner periphery of the outer wall (16) of the inner container (10), and coupled to a pump housing (21).

[0029] The inner container (10) is formed therein with a lifting plate (18) for upwardly lifting the cosmetic material, and the lifting plate (18) comes into close contact with an inner side surface of the inner container (10).

[0030] The inner container (10) is coupled at an outer side thereof with an outer container (80) and an outer container lid (90) for opening/closing the outer container (80).

[0031] The outer container (80) is provided at a front thereof with a button (82), in which a latching protrusion (822) retracted by a press action of the user protrudes from an upper portion of the button (82).

[0032] An inner container coupling shoulder (17) for pressing and fixing the pump housing (21) of the discharge device (20) is coupled to the inside of the outer container (80), in which a first mount protrusion (84) is formed on an outer periphery of the outer container (80), a second mount protrusion (174) is formed on an outer periphery of the outer container coupling shoulder (17), and the first and second mount protrusions are undercut-coupled to each other.

[0033] The inner container coupling shoulder (17) has one side hinged to a shoulder lid (70) for opening/closing the inner container coupling shoulder (17).

[0034] The outer container lid (90) is hinged to one side of the outer container (80) to open/close the outer container (80).

[0035] A protrusion-shaped hook (92) is formed on one side of the outer container lid (90) at a position corresponding to the latching protrusion (822) of the outer container (80), and fastened to the latching protrusion (822) of the outer container (80).

[0036] The discharge device (20) is coupled to an upper portion of the inner container (10), such that the cosmetic material contained in the inner container (10) is discharged to the outside.

[0037] The discharge device (20) may be a pump for pumping and discharging the cosmetic material contained in the

inner container (10) to the outside.

[0038] The discharge device (20) may include a pump housing (21) coupled to the upper portion of the inner container (10), a cylinder (22) provided at a center of the pump housing (21) and formed in a bottom surface thereof with a contents suction hole (28), a suction valve plate (23) mounted on the bottom surface of the cylinder (22) to selectively open/close the contents suction hole (28), a bushing (24) laid on an upper end of the cylinder (22) and coupled to an outer side of the cylinder (22), an elastic member (25) mounted on the bushing (24) to elastically support the distribution plate (30), a piston (26) provided inside the cylinder (22) and moved up and down, and a piston ring (27) fitted to an outer side of the piston (26) and coming into close contact with an inner side surface of the cylinder (22).

[0039] The pump housing (21) is coupled to the upper portion of the inner container (10) to serve to seal the inner container (10), and the pump housing (21) is formed at a center thereof with the cylinder (22), in which the cylinder (22) is formed at an outer side thereof with a bushing installation space (214) to which the bushing (24) is installed.

[0040] A first fastening protrusion wheel (216) is formed on an outer side of the bushing installation space (214), and a second fastening protrusion wheel (246) is formed on an outer periphery of the bushing (24) and undercut-coupled to the first fastening protrusion wheel (216).

[0041] A lower extension protrusion wheel (218) extends downward from an outer side of the pump housing (21), and a coupling protrusion (218a) is formed on an outer periphery of the lower extension protrusion wheel (218) and coupled to the coupling groove (162) of the inner container (10), in which a fixing protrusion wheel (218b) pressed by the inner container coupling shoulder (17) protrudes from an upper side of the coupling protrusion (218a).

[0042] A through hole (242) through which the piston (26) and the piston ring (27) pass is formed at a center of the bushing (24), an inner horizontal extension piece (244) extends inside the through hole (242), and a plurality of elastic member mounting parts (248) are formed on an outer side of the through hole (242).

[0043] A first latching sill (247) is formed on an upper inside of the bushing (24) to prevent the distribution plate (30) from being separated from the compact container.

[0044] The distribution plate (30) is coupled to the upper portion of the discharge device (20), presses the discharge device (20) while being moved upward and downward, and widely spreads the cosmetic material discharged by the discharge device (20).

[0045] The distribution plate (30) is formed at a center thereof with a discharge passage (31) through which the cosmetic material discharged by the discharge device (20) passes, a diffusion space (32) is formed at an outer side the discharge passage (31) to widely spread the cosmetic material having passed through the discharge passage (31), and an assembling groove (33) is formed at an outer side of the diffusion space (32).

[0046] A first lower extension protrusion wheel (36) is formed at a lower portion of the distribution plate (30), in which the first lower extension protrusion wheel (36) is coupled to the piston(26) of the discharge device (20).

[0047] A second lower extension protrusion wheel (37) is spaced apart from the first lower extension protrusion wheel (36) outward by a predetermined distance and extends downward, in which the second lower extension protrusion wheel (37) is fitted to an outer side of the piston ring (27) of the discharge device (20).

[0048] The second lower extension protrusion wheel (37) is formed at an outer side thereof with a separation preventing part (38) to prevent the distribution plate (30) from being separated from the compact container, in which a second latching sill (382) is formed under the separation preventing part (38) and fastened to the first latching sill (247) of the bushing (24).

[0049] The discharge plate (40) is coupled to an upper portion of the distribution plate (30), and discharges the cosmetic material diffused by the distribution plate (30) through an outlet (42).

[0050] The outlet (42) of the discharge plate (40) is formed radially at a position corresponding to the diffusion space (32) of the distribution plate (30).

[0051] The discharge plate (40) may be formed on an upper surface thereof with a movement preventing protrusion wheel (44) for preventing the mixing cushion (50) mounted on the discharge plate (40) from moving.

[0052] In other words, since the mixing cushion (50) is laid on an upper portion of the discharge plate (40), when the user presses or rubs the mixing mesh (66) surrounding the mixing cushion (50) by using the puff (P), the mixing cushion (50) may be moved. To prevent this, the movement preventing protrusion wheel (44) protrudes from the upper surface of the discharge plate (40) to fix a lower surface of the mixing cushion (50).

[0053] An assembling protrusion (43) is formed on a lower portion of the discharge plate (40), and the assembly protrusion (43) is fitted into the assembly groove (33) of the distribution plate (30), so that the discharge plate (40) is prevented from idling with respect to the distribution plate (30).

[0054] The mixing cushion (50) is mounted on the upper portion of the discharge plate (40) to serve to uniformly mix the cosmetic material discharged by the discharge device (20).

[0055] The mixing cushion (50) may be formed of at least one material selected from the group including butadiene rubber BR, styrene butadiene rubber SBR, natural rubber NR, wet urethane, dry urethane, polyether, polyester, polyvinyl chloride, polyethylene, ethylene vinyl acetate, latex, silicone, polystyrene polyisoprene polystyrene, polystyrene polyethylene butylene polystyrene, polyvinyl alcohol PVA, silicone elastomer, nitrile rubber, butyl rubber, and neoprene.

[0056] The mixing mesh (66) is provided at a center of the ring-shaped fixture (60), and the ring-shaped fixture (60) is detachably coupled to the distribution plate (30) or the discharge plate (40) while surrounding the mixing cushion (50).

[0057] In other words, when the user presses the mixing mesh (66) by using the puff (P), the cosmetic material discharged by the discharge device (20) is absorbed into the mixing cushion (50), uniformly mixed, discharged through the mixing mesh (66), and uniformly applied onto the entire lower surface of the puff (P), so that the user easily uses the uniformly mixed cosmetic material.

[0058] The ring-shaped fixture (60) includes a coupling part (62) detachably coupled to the distribution plate (30) or the discharge plate (40), and a joining part (64) extending inside the coupling part (62) and joined to the mixing mesh (66).

[0059] FIG. 8 is a partial perspective view showing a state of a distribution plate, a mixing cushion and a ring-shaped fixture which are coupled to a discharge plate of a compact container having a mixing cushion and a mixing mesh according to the present invention.

[0060] A first detachable protrusion (625) is formed on an inner periphery of the joining part (62), a second detachable protrusion (35) is formed on an outer periphery of the distribution plate (30), and the first and second detachable protrusions may be undercut-coupled to each other.

[0061] Referring to the coupling structure of the distribution plate (30), the discharge plate (40), the mixing cushion (50), and the ring-shaped fixture (60) in more detail, as shown in FIG. 8, first, after the discharge plate (40) is inserted to the upper portion of the distribution plate (30), the mixing cushion (50) is mounted on the upper surface of the discharge plate (40), the upper portion of the mixing cushion (50) is surrounded with the mixing mesh (66) joined to the ring-shaped fixture (60), and simultaneously the ring-shaped fixture (60) is detachably coupled to the distribution plate (30) or the discharge plate (40).

[0062] In other words, as described above, the ring-shaped fixture (60) fixes the mixing cushion (50) and simultaneously is detached from or attached to the distribution plate (30) or the discharge plate (40), so that the mixing cushion (50) may be conveniently replaced simply by separating the ring-shaped fixture (60) from the distribution plate (30) when the mixing cushion (50) is contaminated, and the mixing mesh (66) of the ring-shaped fixture (60) may be washed by water or detergent and reused.

[0063] The joining part (64) serves to press and fix the upper surface of the mixing cushion (50) when the ring-shaped fixture (60) is coupled to the distribution plate (30) or the discharge plate (40).

[0064] The mixing mesh (66) is joined to the lower surface of the joining part (64), in which the mixing mesh (66) may be joined to the joining part (64) by ultrasonic bonding, high frequency bonding, heat bonding, or an adhesive.

[0065] The shoulder lid (70) is hinged to one side of the inner container coupling shoulder (17) and opened and closed to prevent the mixing cushion (50) from being exposed to the outside and causing the mixing cushion (50) to be contaminated or moisture to be evaporated.

[0066] A puff accommodation space (72) is formed in an upper portion of the shoulder lid (70), and a handle (74) may be provided on one side of the shoulder lid (70) so that the user easily holds the shoulder lid (70).

[0067] A sealing protrusion wheel (76) extends downward from a lower side of the shoulder lid (70), and comes into close contact with an upper and inner periphery of the inner container coupling shoulder (17).

[0068] A method of assembling the compact container having a mixing cushion and a mixing mesh configured in the above manner will be described as follows with reference to the accompanying drawings.

[0069] In order to assemble the compact container having the mixing cushion and the mixing mesh according to the present invention, as shown in FIGS. 4 and 5, first, the inner container (10) is mounted to the inside of the outer container (80) having one side hinged to the outer container lid (90).

[0070] Next, the lifting plate (18) is fitted into the inner container (10), the cosmetic material is injected, and then the pump housing (21) of the discharge device (20) is coupled to the upper portion of the inner container (10), in which the lower extension protrusion wheel (218) of the pump housing (21) is inserted between an inner wall (14) and an outer wall (16) of the inner container (10) and simultaneously a coupling protrusion (218a) of the lower extension protrusion wheel (218) is coupled to the coupling groove (162) of the inner container (10).

[0071] Next, the suction valve plate (23), bushing (24), elastic member (25), piston (26) and piston ring (27) are provided on the upper portion of the pump housing (21), and the distribution plate (30) is coupled to the upper portion of the discharge device (20), in which the second latching sill (382) formed on the separation preventing part (38) of the distribution plate (30) is fastened to the first latching sill (247) formed on the bushing (24) of the discharge device (20).

[0072] At the same time, the first lower extension protrusion wheel (36) and the second lower extension protrusion wheel (37) of the distribution plate (30) are coupled to the piston (26) and the piston ring (27) of the discharge device (20), respectively.

[0073] Next, the inner container coupling shoulder (17) having one side hinged to the shoulder lid (70) is coupled to the inside of the outer container (80), in which, while the inner container coupling shoulder (17) pushes and fixes the upper portion of the pump housing (21), the second mount protrusion (174) of the inner container coupling shoulder (17) is coupled to the first mount protrusion (84) of the outer container (80).

[0074] Next, as shown in FIG. 8, after the discharge plate (40) is coupled to the upper portion of the distribution plate

(30), the mixing cushion (50) is mounted on the discharge plate (40).

[0075] Finally, while the upper portion of the mixing cushion (50) is surrounded with the mixing mesh (66) joined to the ring-shaped fixture (60), the ring-shaped fixture (60) is detachably coupled to the distribution plate (30) or the discharge plate (40), in which the first detachable protrusion (625) of the ring-shaped fixture (60) is coupled to the second detachable protrusion (35) of the distribution plate (30). Thus, the assembly of the compact container having the mixing cushion and the mixing mesh according to the present invention is completed.

[0076] A method of using the compact container having a mixing cushion and a mixing mesh assembled as above will be described with reference to the accompanying drawings.

[0077] FIG. 6 is a sectional view showing a state of a cosmetic material discharged when a discharge plate of a compact container having a mixing cushion and a mixing mesh according to the present invention is pressed.

[0078] FIG. 7 is a sectional view showing a state of a cosmetic material introduced into a cylinder when a press of a discharge plate of a compact container having a mixing cushion and a mixing mesh according to the present invention is released.

[0079] In order to use the compact container having the mixing cushion and the mixing mesh according to the present invention, first, as shown in FIG. 6, the mixing mesh (66) and the mixing cushion (50) are pressurized by using a makeup tool such as the puff (P).

[0080] When the mixing mesh (66) and the mixing cushion (50) are pressurized, the discharge plate (40) and the distribution plate (30) disposed below the mixing cushion (50) are also moved downward, and simultaneously the piston (26) of the discharge device (20) coupled to the lower side of the distribution plate (30) and the piston ring (27) are also moved downward, so that the volume inside the cylinder (22) is reduced.

[0081] Accordingly, a pressure is generated inside the cylinder (22), and the discharge pressure is generated as the cosmetic material in the cylinder (22) tends to be discharged to the outside due to the pressure, so that the suction valve plate (23) closes the contents suction hole (28) formed on the bottom surface of the cylinder (22).

[0082] At the same time, as shown in the enlarged view of FIG. 6, the cosmetic material contained in the cylinder (22) is discharged between the piston (26) and the piston ring (27), passes through the distribution passage (31) of the distribution plate (30) and the diffusion space (32) of the distribution plate (30), and is discharged to the outlets (42) of the discharge plate (40).

[0083] Then, the discharged cosmetic material is absorbed in the mixing cushion (50), uniformly mixed, discharged through the mixing mesh (66), and then uniformly applied onto the entire lower surface of the puff.

[0084] Then, as shown in FIG. 7, when the pressurization of the mixing mesh (66) and the mixing cushion (50) is released, the distribution plate (30) is moved upward by the elasticity of the elastic member (25) for elastically supporting the distribution plate (30), and the piston (26) and the piston ring (27) coupled to the lower side of the distribution plate (30) are also moved upward, so that the volume inside the cylinder (22) is increased, thereby generating a vacuum pressure.

[0085] At the same time, the suction valve plate (23) is lifted by the vacuum pressure generated in the cylinder (22), thereby opening the contents suction hole (28) formed on the bottom surface of the cylinder (22), accordingly, the cosmetic material contained in the inner container (10) is introduced into the cylinder (22) through the contents suction hole (28), and simultaneously the lifting plate (18) installed inside the inner container (10) is moved upward.

[0086] In addition, when the contaminated mixing cushion (50) is replaced with a new mixing cushion (50) upon contamination of the mixing cushion (50), the ring-shaped fixture (60) is separated from the distribution plate (30), and then the contaminated mixing cushion (50) is removed.

[0087] Then, as shown in FIG. 8, the new mixing cushion (50) is placed on the upper surface of the discharge plate (40), the mixing mesh (66) joined to the ring-shaped fixture (60) is washed by water or detergent and dried, and the ring-shaped fixture (60) is coupled to the distribution plate (30) or the discharge plate (40), in which the ring-shaped fixture (60) is coupled to the distribution plate (30) or the discharge plate (40) while the upper portion of the mixing cushion (50) being surrounded with the mixing mesh (66) joined to the ring-shaped fixture (60). Thus, the replacement of the mixing cushion (50) of the compact container having the mixing cushion and the mixing mesh according to the present invention is completed.

[0088] The present invention described in the above is merely one embodiment for carrying out the compact container having a mixing cushion and a mixing mesh, and the present invention is not limited to the embodiment.

preferable embodiments have been proposed and set forth in the aforementioned description, however the present invention should not be construed as limited thereto, and it will be apparent to those having ordinary skill in the art in that many different substitutions, deformations and modifications are available within the scope without departing from the invention.

[Description of Reference Numerals]

[0089]

10: inner container	17: inner container coupling shoulder
20: discharge device	21: pump housing
30: distribution plate	31: discharge passage
32: diffusion space	40: discharge plate
42: outlet	44: movement preventing protrusion wheel
50: mixing cushion	60: ring-shaped fixture
62: coupling part	64: joining part
66: mixing mesh	70: shoulder lid
80: outer container	90: outer container lid

Claims

1. A compact container having a mixing cushion and a mixing mesh, the compact container comprising:

an inner container (10) for containing a cosmetic material therein;
a discharge device (20) for discharging the cosmetic material contained in the inner container (10);
a distribution plate (30) for diffusing the cosmetic material discharged by the discharge device (20);
a discharge plate (40) for discharging the cosmetic material diffused by the distribution plate (30) through an outlet (42);
a mixing cushion (50) provided on the discharge plate (40) to uniformly mix the cosmetic material; and
a ring-shaped fixture (60) detachably coupled to the distribution plate (30) or the discharge plate (40) while surrounding the mixing cushion (50), and provided at a center thereof with a mixing mesh (66).

2. The compact container of claim 1, wherein an inner container coupling shoulder (17) is provided at an outer periphery of a pump housing (21) of the discharge device (20), and a shoulder lid (70) for opening and closing the inner container coupling shoulder (17) is coupled to one side of the inner container coupling shoulder (17).

3. The compact container of claim 1, wherein the discharge device (20) includes a pump for pumping and discharging the cosmetic material to an outside.

4. The compact container of claim 1, wherein the discharge plate (40) is formed on an upper surface thereof with a movement preventing protrusion wheel (44) for preventing the mixing cushion (50) from moving.

5. The compact container of claim 1, wherein the ring-shaped fixture (60) comprises:

a coupling part (62) detachably coupled to the distribution plate (30) or the discharge plate (40); and a joining part (64) extending inward of the coupling part (62) and joined to the mixing mesh (66).

Fig. 1

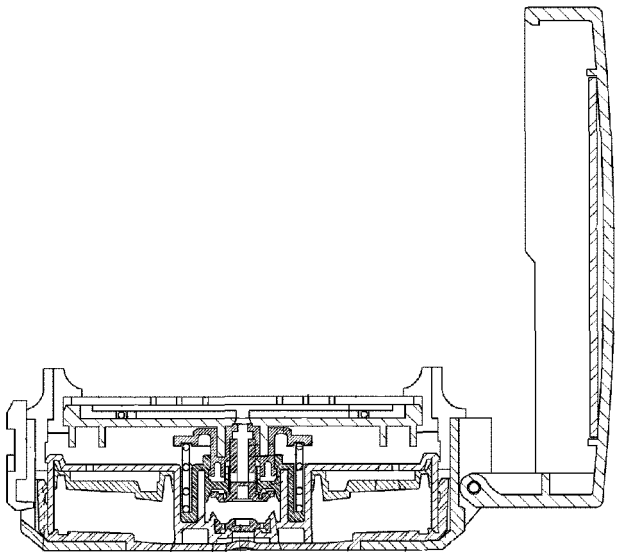

Fig. 2

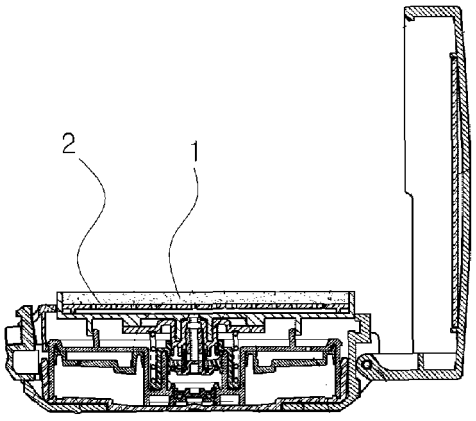

Fig. 3

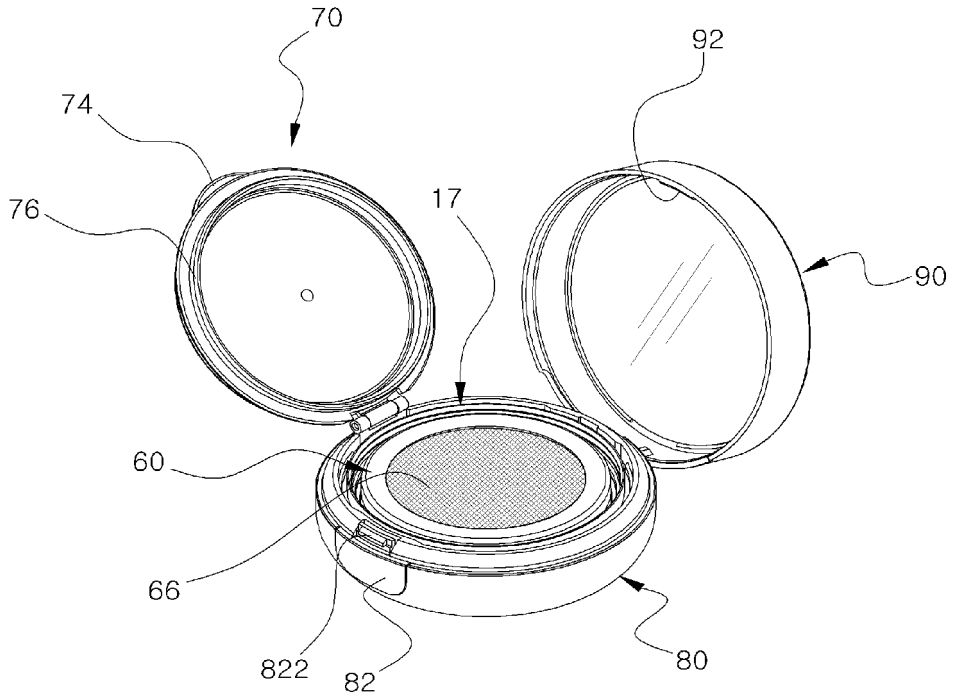

Fig. 4

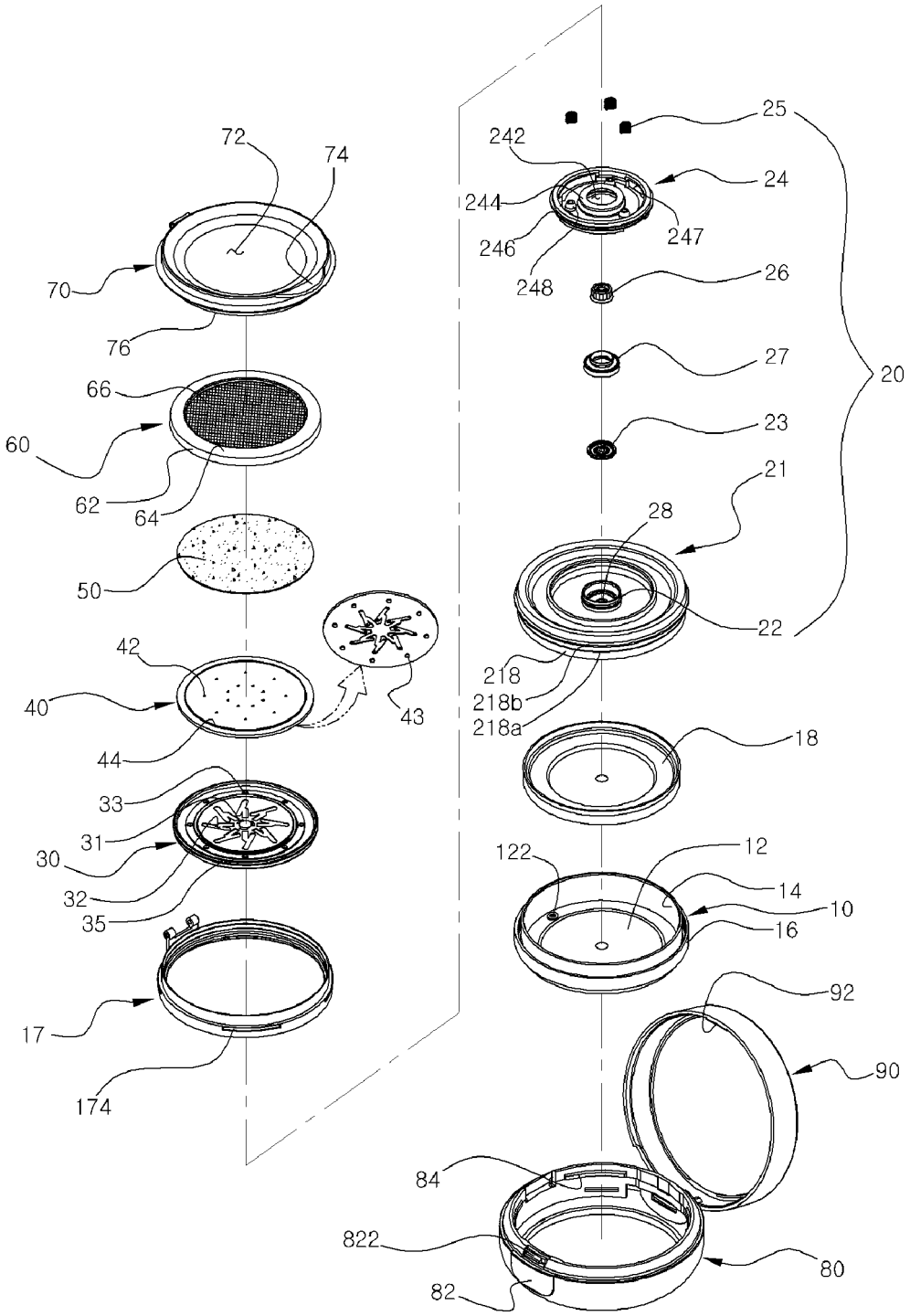
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Fig. 5

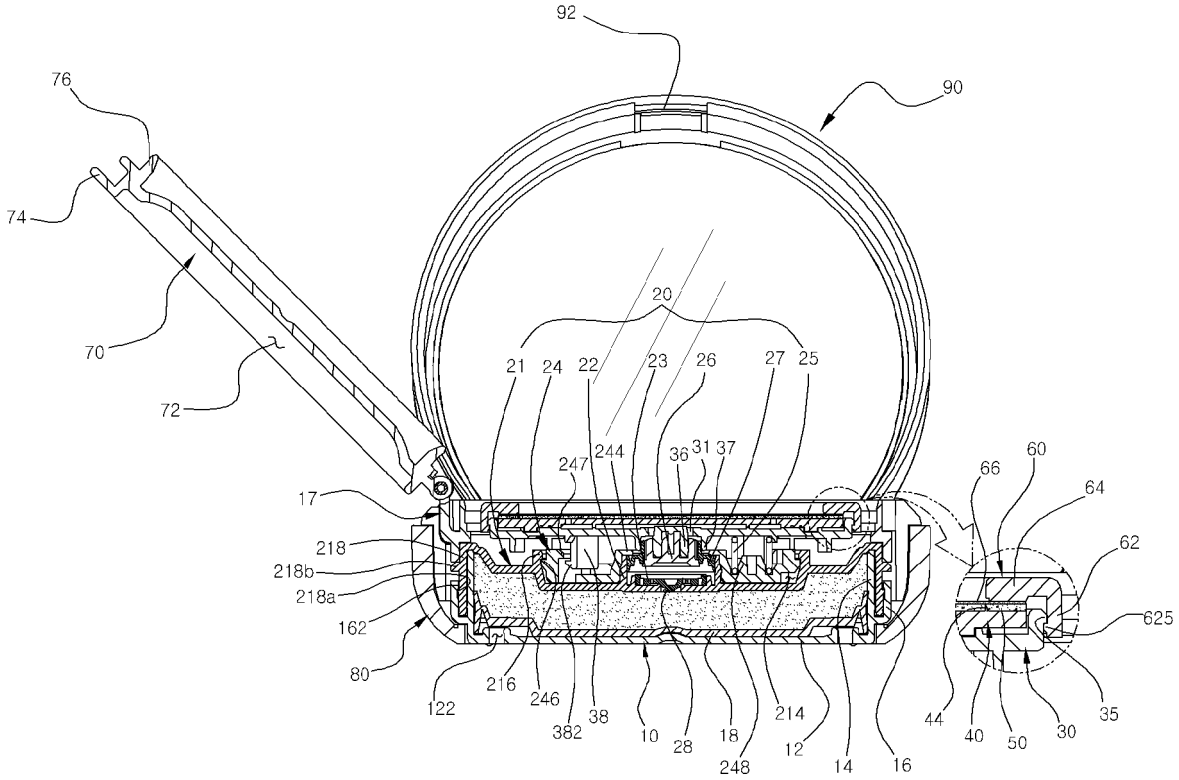
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Fig. 6

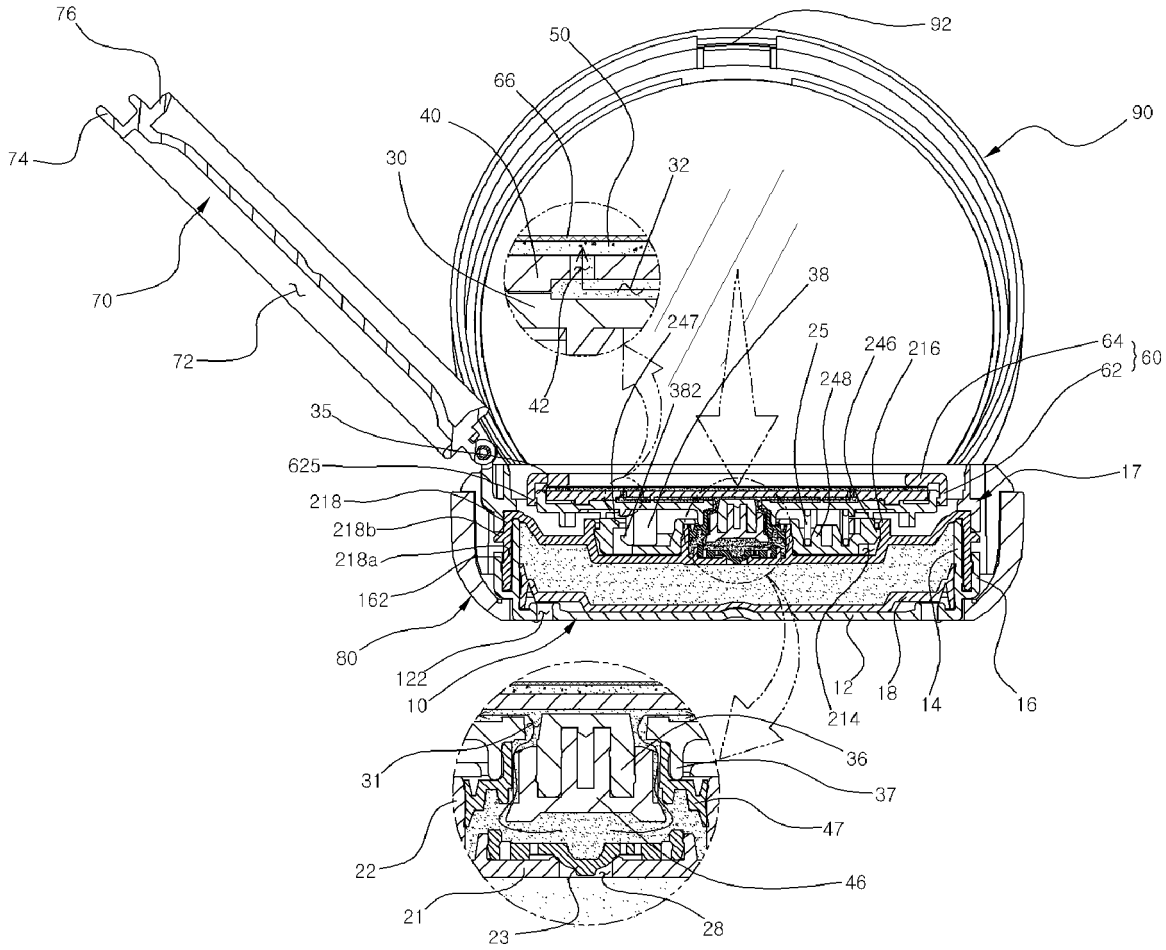
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Fig. 7

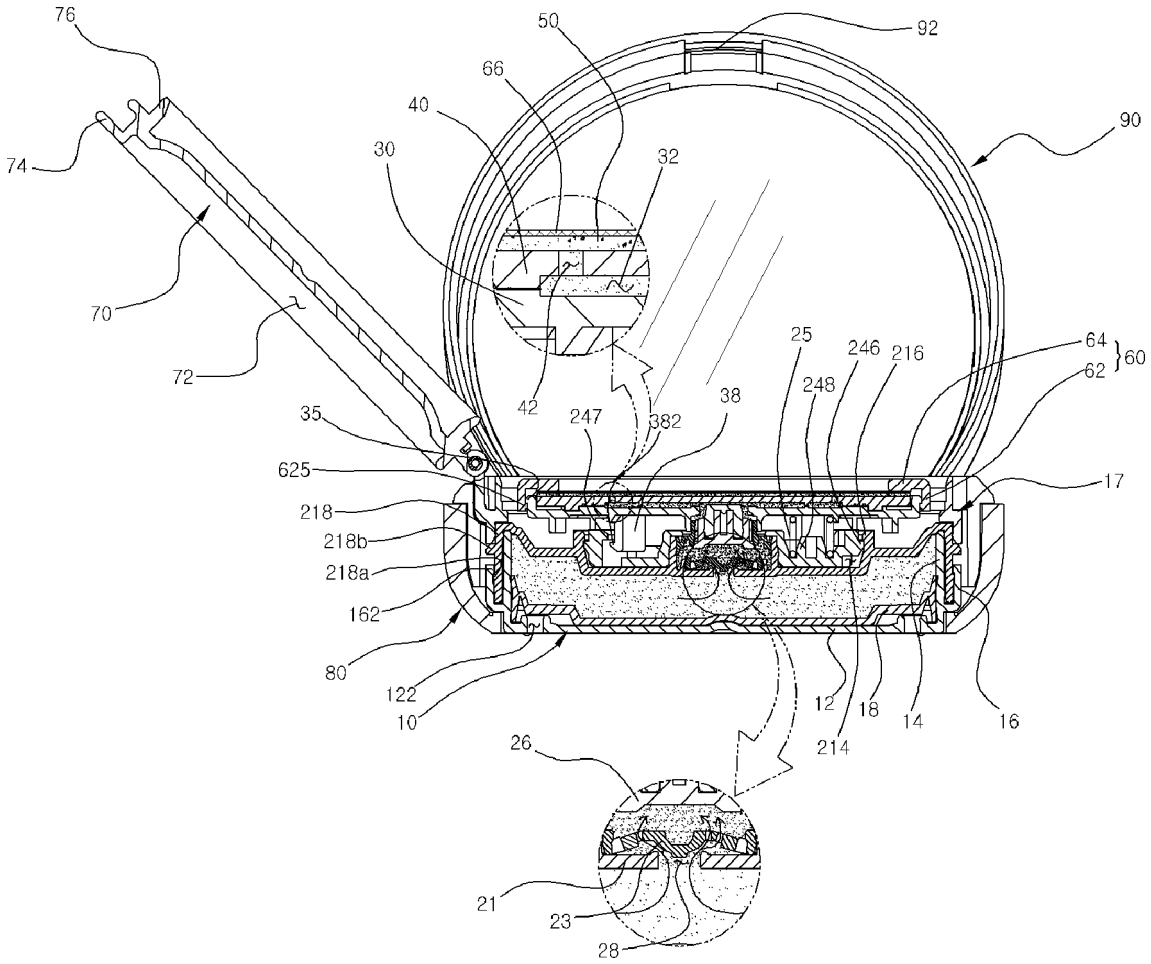
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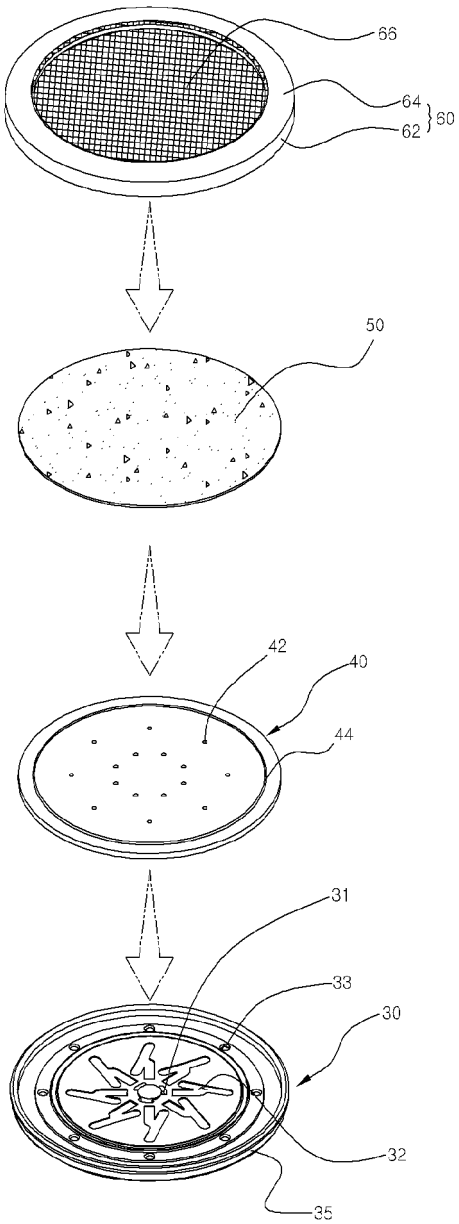
Fig. 8



INTERNATIONAL SEARCH REPORT

International application No.
PCT/KR2017/006698

A. CLASSIFICATION OF SUBJECT MATTER
A45D 40/26(2006.01)i, A45D 40/22(2006.01)i, B65D 83/00(2006.01)i, B65D 47/00(2006.01)i, B65D 77/04(2006.01)i, A45D 40/00(2006.01)i
According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
A45D 40/26; B65D 81/32; A45D 33/00; A45D 34/00; B65D 47/34; A45D 40/00; B65D 47/00; A45D 40/22; B65D 83/00; 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: makeup, compact, cushion, mesh, exhaust, distribution, mixing, fixing, pump, protruding ring

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	KR 20-0470757 Y1 (AMOREPACIFIC CORPORATION et al.) 09 January 2014 See claims 1, 7 and figures 2-5.	1-5
Y	KR 10-1585392 B1 (PUMTECH KOREA CO., LTD.) 20 January 2016 See claim 5 and figure 4.	1-5
Y	KR 10-1527694 B1 (JUNG, Ku Youl) 16 June 2015 See paragraphs [0019], [0036]-[0041] and figures 3-6, 10, 11.	1-5
Y	KR 20-2016-0000891 U (KANG, Sung-Ill) 15 March 2016 See paragraphs [0099]-[0102] and figure 4.	1-5
A	KR 20-0478242 Y1 (PUMTECH KOREA CO., LTD.) 11 September 2015 See the entire document.	1-5

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

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"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
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"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"&" document member of the same patent family

Date of the actual completion of the international search	Date of mailing of the international search report
18 OCTOBER 2017 (18.10.2017)	**01 NOVEMBER 2017 (01.11.2017)**
Name and mailing address of the ISA/KR Korean Intellectual Property Office Government Complex-Daejeon, 189 Seonsa-ro, Daejeon 302-701, Republic of Korea Facsimile No. +82-42-481-8578	Authorized officer Telephone No.

Form PCT/ISA/210 (second sheet) (January 2015)

INTERNATIONAL SEARCH REPORT
Information on patent family members

International application No.
PCT/KR2017/006698

Patent document cited in search report	Publication date	Patent family member	Publication date
KR 20-0470757 Y1	09/01/2014	NONE	
KR 10-1585392 B1	20/01/2016	NONE	
KR 10-1527694 B1	16/06/2015	NONE	
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KR 20-0478242 Y1	11/09/2015	WO 2015-147542 A1	01/10/2015

Form PCT/ISA/210 (patent family annex) (January 2015)

REFERENCES CITED IN THE DESCRIPTION

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Patent documents cited in the description

- KR 101566114 **[0007]**
- KR 200470757 **[0009]**