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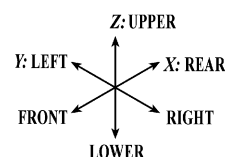
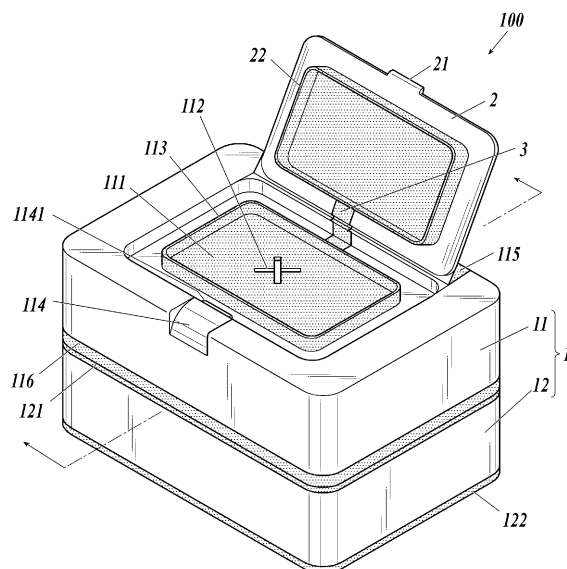
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(54) **CONTAINER FOR HOUSING HOUSEHOLD TISSUE PAPER**

(57) A container 100 for housing household tissue paper and comprising: a container main body 1 having household tissue paper P housed therein and having a retrieval hole 112 from which the household tissue paper P is retrieved; and an opening/closing lid 2 rotatably attached to the container main body 1 and blocking the retrieval hole 112. The container main body 1: has at least part thereof formed using an elastic material; comprises a locking means 114 that locks the opening/closing lid 2 in a closed state and is capable of opening the opening/closing lid 2 by releasing the lock; and comprises an impelling means 3 that is integrally formed, using elastic material, with a section formed by the elastic material of the container main body 1 and impels the opening/closing lid 2 in the opening direction. As a result, a housing container for household tissue paper can be provided that has a simple opening action for the opening/closing lid and suppresses reduction in productivity.

FIG. 1



Description

Technical Field

[0001] The present invention relates to a container for housing household tissue paper.

Background Art

[0002] Conventionally known containers for household tissue paper such as wet tissues have an open/close lid that is biased in the opening direction by a biasing member such as a spring and can be latched in a closing state by a predetermined latch. A user can open the open/close lid in a single operation of pushing a button provided on the latch.

[0003] In such a container for housing household tissue paper, a metal or resin spring(s) that are formed separately from a container body and the open/close lid may be used as a mechanism to bias the open/close lid. The springs are each attached to the container for housing household tissue paper at a hinge provided at the container body and the open/close lid (for example, see patent document 1).

Citation List

Patent Literature

[0004] [Patent Document 1] JP 3962410 B2

Summary of Invention

Technical Problem

[0005] Such a container for housing household tissue paper makes it easy to open the open/close lid. However, because the metal or resin spring is formed separately from the container body and the open/close lid, productivity is reduced due to the complicated structure and the increased number of parts composing the container.

[0006] An object of the present invention is to provide a container for housing household tissue paper that makes opening operation of the open/close lid easy and suppresses decrease in productivity.

Solution to Problem

[0007] In order to achieve the object, according to the invention recited in to claim 1, a container for housing household tissue paper includes:

- a container body that stores household tissue paper inside and has an outlet through which the household tissue paper is taking out;
- an open/close lid that is pivotably provided to the container body and closes the outlet; and
- a biasing member, wherein

at least a part of the container body is formed of an elastic material, and the container body has a latch that latches the open/close lid in a closing state and that releases and opens the open/close lid, and the biasing member is formed of the elastic material integrally with the part of the container body formed of the elastic material and biases the open/close lid in an opening direction.

[0008] According to this invention, it is possible to make opening operation of the open/close lid easy and to suppress decrease in productivity.

[0009] According to the invention recited in to claim 2, in the container for housing household tissue paper recited in claim 1, at least a part of the open/close lid is formed of the elastic material, and the biasing member is integrally formed with the part of the open/close lid formed of the elastic material.

[0010] According to this invention, it is possible to make opening operation of the open/close lid easy and to further suppress decrease in productivity.

[0011] According to the invention recited in claim 3, in the container for housing household tissue paper recited in claim 1 or 2, hardness of the elastic material is 20 or more and 90 or less.

[0012] According to this invention, it is possible to further make opening operation of the open/close lid easy.

[0013] According to the invention recited in claim 4, in the container for housing household tissue paper recited in any one of claims 1 to 3, the biasing member is embedded in the container body and the open/close lid.

[0014] According to this invention, it is possible to make opening operation of the open/close lid easy and to suppress decrease in productivity.

[0015] According to the invention recited in claim 5, in the container for housing household tissue paper recited in any one of claims 1 to 3, only one end of the biasing member is connected to the part of the container body formed of the elastic material, and only another end of the biasing member is connected to a part of the open/close lid formed of the elastic material.

[0016] According to this invention, it is possible to make opening operation of the open/close lid easy and to suppress decrease in productivity.

[0017] According to the invention recited in claim 6, in the container for housing household tissue paper recited in any one of claims 1 to 5, the container body has a body-side sealing loop that is formed of the elastic material and is a loop-shaped projection surrounding the outlet and protruding in an upper direction, the open/close lid has an open/close-lid-side sealing loop that is formed of the elastic material and is a loop-shaped projection protruding in a lower direction when the

open/close lid is closed, and the body-side sealing loop and the open/close-lid-side sealing loop are fit to each other when the open/close lid is closed.

[0018] According to this invention, it is possible to improve sealing property in the container body.

[0019] According to the invention recited in claim 7, in the container for housing household tissue paper recited in any one of claims 1 to 6, the container body has a nonslip portion formed of the elastic material near a connecting portion with the open/close lid.

[0020] According to this invention, it is possible to improve stability of the open/close lid at the time of opening.

Advantageous Effects of Invention

[0021] According to the present invention, there is provided a container for housing household tissue paper that makes opening operation of the open/close lid easy and suppresses the decrease in productivity.

Brief Description of Drawings

[0022]

FIG. 1 is a perspective view of a container for housing household tissue paper according to an embodiment. Shaded areas represent portions formed of an elastic material.

FIG. 2 is a sectional view of FIG. 1 cut through a middle portion in Y direction. Shaded areas represent portions formed of an elastic material.

FIG. 3 is a sectional view of the same portion as FIG. 2 when an open/close lid is in a closing state. Shaded areas represent portions formed of an elastic material.

FIG. 4 is a sectional view of the same portion as FIG. 2 when an upper container body and a lower container body are out of a state fitting to each other. Shaded areas represent portions formed of an elastic material.

FIG. 5 is a perspective view of a container for housing household tissue paper according to a modified embodiment. Shaded areas represent portions formed of an elastic material.

FIG. 6 is a sectional view of FIG. 5 cut through a middle portion in Y direction when an open/close lid is in a closing state. Shaded areas represent portions formed of an elastic material.

Description of Embodiments

[0023] Hereinafter, the container for housing household tissue paper 100 as an embodiment of the present invention is described in detail with reference to FIG. 1 to FIG. 6. However, the scope of the invention is not limited to the illustrated examples.

[0024] In the following description, an X-axis, Y-axis, Z-axis, front-rear direction, left-right direction, and upper-lower direction are defined as shown in FIG. 1. That is, the side of the container for housing household tissue paper 100 on which the open/close lid 2 is provided and the side opposite thereto are referred to as "upper" and "lower", respectively. The side where a container body 1 and the open/close lid 2 are connected and the side opposite thereto are referred to as "rear" and "front", respectively. The right-hand side and the left-hand side when one is facing toward the rear are referred to as "right" and "left", respectively. The axis along the front-rear direction is referred to as the X axis, the axis along the left-right direction is referred to as the Y axis, and the axis along the upper-lower direction is referred to as the Z axis.

[Configuration of Embodiment]

{Overall Configuration}

[0025] As shown in FIG. 1, the container for housing household tissue paper 100 includes a container body 1 that has an outlet 112 through which the inside tissue paper is taken out, an open/close lid 2 that is connected to the container body 1 and freely opened and closed so as to cover the outlet 112, and a biasing means 3 that extends from container body 1 to the open/close lid 2 and biases the open/close lid 2 in an opening direction. The container body 1 has a housing space S to store the household tissue paper inside.

[0026] The container body 1 and the open/close lid 2 can be integrally formed by injection molding (double molding).

{Household Tissue Paper}

[0027] The household tissue paper P is, for example, so-called pop-up type sheets in which small wet sheets, wet tissues, or the like are folded and stacked in alternating directions such that, as one wet sheet, wet tissue, or the like is pulled out, the next one is also pulled out. Another example of the household tissue paper P is a roll sheet that is a long wet sheet, wet tissue, or the like that is wound into a roll and has perforations at regular intervals in the length direction so as to be cut along the perforations and used.

{Container Body}

[0028] As shown in FIG. 1, the container body 1 as a whole is formed in a substantially rectangular parallelepiped shape that is longer in the Y direction than in the X and Z directions. The container body 1 is vertically divided into two parts almost in the middle in the Z direction, one being an upper container body 11 constituting the upper side of the container body 1 and the other being a lower container body 12 constituting the lower side of the

container body 1. The upper container body 11 and the lower container body 12 are connected to each other on the rear side of the container body 1.

[0029] The container body 1 and the open/close lid 2 can be integrally formed by injection molding (double molding).

[0030] The dimensions of the container body 1 as a whole are preferably 60 mm to 150 mm, more preferably 80 mm to 100 mm in the X direction, preferably 80 mm to 200 mm, more preferably 145 mm to 165 mm in the Y direction, and preferably 30 mm to 100 mm, more preferably 50 mm to 70 mm in the Z direction. The thickness of each surface is preferably 0.5 mm to 3 mm, more preferably 1 mm to 2 mm.

[0031] With such dimensions and thickness, it is possible to achieve high molding efficiency and strength that does not cause any problems in actual use.

[0032] As shown in FIG. 4, the container body 1 can expose the internal housing space S to the outside in response to pivoting of the upper container body 11 upward around a pivot point on the rear side of the container body 1. The upper container body 11 and the lower container body 12 are connected at the pivot point.

[0033] As shown in FIG. 2 to FIG. 4, a connecting portion between the upper container body 11 and the lower container body 12 on the rear side of the container body 1 is formed so as to be thinner than other portions of the container body 1. Therefore, the rear surface of the container body can be readily bent at the connecting portion. This makes it easy to pivot the upper container body 11 with respect to the lower container body 12 around the connecting portion as a pivot point.

[0034] Alternatively, though productivity is reduced, the upper container body 11 and the lower container body 12 can be formed separately and connected pivotably by using a hinge or the like.

[0035] The container body 1 is divided into the upper container body 11 and the lower container body 12 almost in the middle in the Z direction in the drawings, but is more preferably divided at above the middle position in the Z direction. This reduces the possibility that an end seal portion(s) of the package is pinched when the container is closed, and thereby makes it easier to refill the household tissue paper P to be stored in the container body 1 while being covered with a predetermined package.

(Upper Container Body)

[0036] As shown in FIG. 1 to FIG. 4, the upper container body 11 is formed in a substantially rectangular parallelepiped shape having an opening lower surface and has a recessed portion 111 having a sunken recessed shape on the upper side of the upper container body 11. An outlet 112 for taking out the household tissue paper P in the housing space S is provided in the middle of the recessed portion 111 and is surrounded by a body-side sealing loop 113.

[0037] Furthermore, a latch 114 for opening and closing the open/close lid 2 is formed at the front portion of the upper surface, and an upper nonslip portion 115 is formed at the rear portion of the upper surface to stable the open/close lid 2 when it is opened.

[0038] Around the opening lower surface is formed an upper fitting portion 116 that fits to a lower fitting portion 121 of the lower container body 12 described later.

10 (Outlet)

[0039] The outlet 112 is a hole that is formed almost in the middle of the upper surface of the upper container body and connects to the housing space S.

15 **[0040]** The outlet 112 is formed by making two intersecting cuts in FIG. 1, but the present invention is not limited to this, and the number of cuts may be more than two. For example, three cuts connecting respective vertices of a right triangle and the center of gravity of the right triangle may be made.

20 **[0041]** The periphery of the outlet 112 is formed of a material having elasticity described later so as to apply appropriate resistance to the household tissue paper P. As a result, when a sheet of the household tissue paper P in the housing space S is pulled out, the next sheet of the household tissue paper P is held by the outlet 112. Furthermore, when the household tissue paper P is a roll sheet, outlet 112 can cut the household tissue paper P at its perforations provided for cutting.

25 30

(Body-Side Sealing Loop)

[0042] As shown in FIG. 1, the body-side sealing loop 113 is a loop-shaped projection protruding in the upper direction and surrounding the outlet 112. As shown in FIG. 3 and FIG. 4, the outer periphery of the body-side sealing loop 113 is formed so as to fit to the inner periphery of the open/close-lid-side sealing loop 22 formed on the open/close lid 2 as described later.

35 40

(Latch)

[0043] As shown in FIG. 1, the latch 114 is formed of a button shape having a body-side hook 1141. The body-side hook 1141 engages with the open/close-lid-side hook 21 formed on the open/close lid 2 described later to latch the open/close lid 2 in a closing state. When a user pushes the latch 114, the body-side hook 1141 and the open/close-lid-side hook 21 are disengaged, and the open/close lid 2 is opened.

45 50

(Upper Nonslip Portion)

[0044] As shown in FIG. 1, the open/close lid 2 in an open state is less likely to slip because of the upper nonslip portion 115 that is formed on the upper surface of the upper container body 11 at the rear side of the connecting portion between the upper container body 11 and

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the open/close lid 2. The frictional resistance of the upper nonslip portion 115 with the lid is high because it is formed of an elastic member as described later and thereby the lid is prevented from swinging.

(Upper Fitting Portion)

[0045] As shown in FIG. 1 to FIG. 4, the upper fitting portion 116 is formed around the opening lower surface of the upper container body 11 except for the rear side of the opening where the upper container body 11 and the lower container body 12 are connected to each other. As shown in FIG. 2 to FIG. 4, only the outer periphery of the lower edge of the upper fitting portion 116 protrudes to form an upper protrusion 1161. The inner periphery of the upper protrusion 1161 is formed so as to fit to the outer periphery of the lower protrusion 1211 of the lower fitting portion 121 formed in the lower container body 12 as described later.

[0046] The upper fitting portion 116 is formed such that the upper protrusion 1161 has a dimension in the upper-lower direction of preferably 0.5 mm to 5 mm, more preferably 1 mm to 3 mm.

(Material of Upper Container Body)

[0047] As shown in FIG. 1, the upper container body has the body-side sealing loop 113 on the upper surface and a portion surrounded by the body-side sealing loop 113 in the recessed portion 111 that are formed of a material having elasticity (hereinafter, referred to as an "elastic material") such as silicone rubber and thermoplastic elastomer such as styrene-butadiene type, polyester type, polyethylene type, and urethane type. The hardness of the elastic material is preferably 20 to 90. The hardness is measured in accordance with JIS K 6253 (type A durometer).

[0048] In the upper container body 11, a portion forming a biasing member 3 described later, the upper nonslip portion 115, and the upper fitting portion 116 are also formed of a similar elastic material.

[0049] The other portions in the upper container body are formed of, for example, polyethylene, polypropylene, and the like.

[0050] They are integrally formed by injection molding (double molding).

[0051] When the hardness is less than the above, the elastic material is too soft and difficult to be molded, which results in poor molding efficiency. Furthermore, such a biasing member 3 cannot bias the open/close lid 2 enough in an opening direction. When the hardness is more than the above, the hard portion around the outlet 112 increases the resistance too much and makes it difficult to take out the sheet one by one and to put fingers inside the container for pulling out the sheet. Furthermore, such a biasing member 3 biases the open/close lid 2 too much in the opening direction.

[0052] Therefore, the hardness of the elastic material

is preferably within the above range.

(Lower Container Body)

[0053] As shown in FIG. 1 to FIG. 4, the lower container body 12 is formed in a substantially rectangular parallelepiped shape having an opening upper surface. Around the opening upper surface is formed a lower fitting portion 121 that fits to the upper fitting portion 116 of the upper container body 11. A lower nonslip portion 122 is formed on the lower surface.

(Lower Fitting Portion)

[0054] As shown in FIG. 1 to FIG. 4, the lower fitting portion 121 is formed around the upper opening of the lower container body 12 except for the rear side of the opening where the lower container body 12 and the upper container body 11 are connected to each other. As shown in FIG. 2 to FIG. 4, only the inner peripheral portion of the upper edge of the lower fitting portion 121 protrudes to form a lower protrusion 1211. The outer periphery of the lower protrusion 1211 is formed so as to fit to the inner periphery of the upper protrusion 1161 of the upper fitting portion 116 formed in the upper container body 11.

[0055] The lower fitting portion 121 is formed such that the lower protrusion 1211 has a size in the upper-lower direction of preferably 0.5 mm to 5 mm, more preferably 1 mm to 3 mm.

[0056] Alternatively, only the inner peripheral side of the upper protrusion 1161 of the upper fitting portion 116 and only the outer peripheral side of the lower protrusion 1211 of the lower fitting portion 121 may be each formed to protrude, such that the outer periphery of the upper protrusion 1161 fits to the inner periphery of the lower protrusion 1211.

[0057] Alternatively, the middle portion between the inner and outer peripheral sides of the upper protrusion and both of the inner and outer peripheral sides of the lower protrusion may be each formed to protrude, such that the upper protrusion fits to a recessed portion between the lower protrusions. Conversely, both of the inner and outer peripheral sides of the upper protrusion and the middle portion between the inner and outer peripheral sides of the lower protrusion may be each formed to protrude, such that the lower protrusion fits to a recessed portion between the upper protrusions.

(Lower Nonslip Portion)

[0058] The placed container for housing household tissue paper 100 is less likely to slip because of a lower nonslip portion 122 that is formed by providing a portion made of an elastic material on the lower surface of the lower container body 12 integrally with other portions.

(Material of Lower Container Body)

[0059] The lower container body 12 has the lower fitting portion 121 and the lower nonslip portion 122 that are formed of a similar elastic material as used in the upper container body 11, and the other portions are formed of, for example, polyethylene, polypropylene, and the like.

[0060] They are integrally formed by injection molding (double molding).

{Open/Close Lid}

[0061] As shown in FIG. 1 to FIG. 4, the open/close lid 2 is a flat, a substantially rectangular member that is pivotably connected to the rear side of the recessed portion 111 of the upper container body 11, and has an open/close-lid-side hook 21 on the front side and an open/close-lid-side sealing loop 22 on the lower surface side.

[0062] As shown in FIG. 1 to FIG. 4, the shape of the open/close lid 2 in a plan view in the closing state is formed to be substantially the same as that of the recessed portion 111 of the upper container body 11, so that the open/close lid 2 can fit to the recessed portion 111 when closed.

(Open/Close-Lid-Side Hook)

[0063] As shown in FIG. 1 to FIG. 4, the open/close-lid-side hook 21 is a hook protruding from the open/close lid 2 toward the front. The open/close-lid-side hook 21 engages with the body-side hook 1141 formed on the latch 114 of the upper container body 11 and latches the open/close lid in the closing state. When a user pushes the latch 114, the body-side hook 1141 and the open/close-lid-side hook 21 are disengaged, and the open/close lid 2 is opened because of the biasing member 3 described later.

(Open/Close-Lid-Side Sealing Loop)

[0064] As shown in FIG. 1, the open/close-lid-side sealing loop 22 is a loop-shaped projection protruding in the lower direction, and formed in the middle of the lower surface of the open/close lid 2 in the closing state. As shown in FIG. 3 and FIG. 4, the inner periphery of the open/close-lid-side sealing loop 22 is formed so as to be fit to the outer periphery of the body-side sealing loop 113 formed on the upper container body 11.

(Material of Open/Close Lid)

[0065] As shown in FIG. 1, in the open/close lid 2, the open/close-lid-side sealing loop 22 and a portion surrounded by the open/close-lid-side sealing loop 22 are formed of a similar elastic material as used in the upper container body 11 etc., and the other portions are formed of, for example, polyethylene, polypropylene, and the

like.

[0066] They are integrally formed by injection molding (double molding).

5 {Biasing Member}

[0067] The biasing member 3 biases the open/close lid 2 in the opening direction such that, when a user pushes the latch 114 and disengages the body-side hook 1141 and the open/close-lid-side hook 21, the open/close lid 2 is opened by pivoting on the connecting portion between the open/close lid 2 and the rear upper container body 11 as a pivot shaft.

[0068] As shown in FIG. 1 to FIG. 4, the biasing member 3 is a portion of an elastic material provided on the upper container body 11 and the open/close lid 2 so that the rear portion of the body-side sealing loop 113 of the upper container body 11 is connected to the rear portion of the open/close-lid-side sealing loop 22 of the open/close lid 2 in the closing state. That is, the biasing member 3 is formed integrally with and embedded in the upper container body 11 and the open/close lid 2, such that the portion formed of the elastic material in the upper container body 11 and the portion formed of the elastic material in the open/close lid 2 are connected to each other.

[0069] The biasing member 3 is formed of an elastic material such as silicone rubber and thermoplastic elastomer such as styrene-butadiene type, polyester type, polyethylene type and urethane type, that is similar to the one used in the portion surrounded by the body-side sealing loop 113 of the upper container body 11 and the like.

[0070] The biasing member 3 is formed on the upper container body 11 and the open/close lid 2 in a band shape having a width of preferably 2 mm to 30 mm, more preferably 8 mm to 10 mm, and a thickness of preferably 0.5 mm to 3 mm, more preferably 1 mm to 2 mm.

[0071] When the biasing member 3 is shaped to have such dimensions, it is possible to push up the open/close lid 2 without difficulty and to fold the biasing member 3 easily in the recessed portion 111 when the open/close lid 2 is in the closing state.

[0072] As shown in FIG. 3, the biasing member 3 is folded at the base of the open/close lid 2 when the open/close lid 2 is closed. When a user pushes the latch 114 and disengages the body-side hook 1141 and the open/close-lid-side hook 21, the open/close lid 2 is opened to be in a state shown in FIG. 2 by the stretching force of the folded biasing member 3.

[0073] When a user pushes the open/close lid from the upper side, the biasing member 3 is folded, and the open/close lid 2 is closed to be in a state shown in FIG. 3.

55 [Effect from Embodiment]

[0074] According to the container for housing household tissue paper 100 according to the embodiment,

when a user operates the latch 114 and disengages the opening/close lid 2, the open/close lid 2 jumps up automatically because of the biasing member 3. Therefore, it is easy to open the open/close lid when using the household tissue paper.

[0075] Furthermore, the biasing member 3 is formed of the same elastic material as the other portion(s) formed of an elastic member in the upper container body 11 and the open/close lid 2, such as the periphery of the outlet 112, and can be formed integrally with the container body 1 and the open/close lid 2. Therefore, because it is not necessary to use different materials or to increase the number of parts, the biasing member 3 does not result in less productivity.

[0076] In particular, the periphery of the outlet 112 of the upper container body 11 is preferably formed of an elastic material in order to apply moderate resistance to the household tissue paper P. According to the present embodiment, the biasing member 3 can be formed continuously from the periphery of the outlet 112. Such an embodiment is further preferred in terms of productivity because it is not necessary to prepare the biasing member 3 as an elastic material separate from the periphery of the outlet 112.

[0077] Furthermore, the body-side sealing loop 113 in the upper container body 11 and the open/close-lid-side sealing loop 22 in the open/close lid 2 are each formed of an elastic material so as to fit to each other when the open/close lid 2 is closed. As a result, the airtightness of the outlet 112, and eventually the housing space S inside the container body 1, can be improved. This effect can be particularly enhanced when both the body-side sealing loop 113 and the open/close-lid-side sealing loop 22 are made of an elastic material.

[0078] Because the upper nonslip portion 115 formed at the rear portion of open/close lid 2 on the upper surface of the container body 1 is made of an elastic material, the open/close lid 2 is more stable when it is open.

[0079] The container body 1 is constituted by the upper container body 11 and the lower container body 12 that are connected to each other at the rear surface, accordingly, the container body 1 can be opened at its middle portion, and the household tissue paper P stored in the interior housing space S can be refilled.

[0080] Therefore, it is possible to refill the household tissue paper P while the container for housing household tissue paper 100 is not lifted from but left on the table or the like.

[0081] The upper container body 11 and the lower container body 12 are connected to each other at the rear surface and relatively pivot on the connecting portion as a pivot point. In this way, the housing space S can be opened and closed. Therefore, after refilling and the like, the upper container body 11 and the lower container body 12 can easily fit to each other so that the container body is closed without aligning the positions each time. As a result, it is possible to reduce efforts at the time of refilling the inside tissue paper P.

[0082] When the container body 1 is closed, the upper fitting portion 116 formed of an elastic material in the upper container body 11 and the lower fitting portion 121 formed of an elastic material in the lower container body 12 fit to each other, and the airtightness of the container body 1 can be improved. This effect can be particularly enhanced when both the upper fitting portion 116 and the lower fitting portion 121 are made of an elastic material.

[0083] Because the lower nonslip portion 122 made of an elastic material is formed at the lower surface of the container body 1, the container body 1 can be placed more stably on the table or the like.

[0084] Furthermore, the container for housing household tissue paper 100 as a whole is made of two kinds of resin materials (an elastic material such as the silicon rubber or thermoplastic elastomer of a styrene-butadiene type, polyester type, polyethylene type, or urethane type, and a relatively hard material such as polyethylene or polypropylene), and can be integrally formed by injection molding (double molding). Therefore, excellent productivity can be also realized from the viewpoints other than the configuration of the biasing member 3 described above.

[Modified Embodiment]

[0085] In the container for housing household tissue paper 100 described in the embodiment, the upper container body 11 and the open/close lid 2 are integrally formed, and the biasing member 3 is also integrally formed with both of them. However, the upper container body 11 and the open/close lid 2 may be formed separately and connected to each other by a hinge and the like.

[0086] In this case, the biasing member 3 may be formed integrally only with the upper container body 11, and may be formed separately from the open/close lid 2.

[0087] In this case, for example, the biasing member 3 is formed so as to protrude from the upper container body 11, and a gap for fitting to the biasing member 3 is formed in the open/close lid 2. The protrusion of the biasing member 3 is inserted into the gap, and the biasing member 3 is connected to the open/close lid 2.

[0088] Also in this case, the biasing member 3 is formed integrally with at least the upper container body 11. Therefore, the productivity can be improved as compared with the case where the biasing member 3 is formed separately from the upper container body 11 and separately from the open/close lid 2.

[0089] The biasing member 3 is not limited to be arranged as shown in the drawings. It is arranged only in one middle position in FIG. 1, but may be arranged at a plurality of positions in the left-right direction, for example.

[0090] The biasing member 3 is not limited to be formed integrally with and embedded in the upper surface of the upper container body 11 and the open/close lid 2 as shown in FIG. 1.

[0091] For example, as shown in FIG. 5 and FIG. 6,

only one end of a biasing member (s) 3A may be connected to the portion formed with the elastic member on the upper surface of the upper container body 11 and only another end of the biasing member is connected to the portion formed with the elastic member of the open/close lid 2, such that the biasing member 3A is formed integrally with and bridges the upper container body 11 and the open/close lid 2. Alternatively, the biasing member 3 may be integrally formed only with the upper container body 11, and may be connected to the open/close lid 2 by a method using a recessed portion for fitting, using a hinge, and the like.

[0092] As shown in FIG. 6, when the open/close lid 2 is closed, the biasing member 3A is folded with the fold at the front. When a user pushes the latch 114 to disengage the body-side hook 1141 and the open/close-lid-side hook 21, the open/close lid 2 is opened to be in a state shown in FIG. 5 by the stretching force of the folded biasing member 3A.

[0093] When a user pushes the open/close lid from the upper side, the biasing member 3A is folded naturally, and the open/close lid 2 is closed to be in a state shown in FIG. 6.

[0094] Such a biasing member 3A has a complicated structure as compared with the biasing member 3 according to the above embodiment, but can exert a large biasing force.

[0095] The biasing member (s) 3A is also not limited to be arranged as shown in the drawings.

[0096] There are two biasing members 3A in FIG. 5, but may be only one biasing member in the middle, or may be three or more biasing members.

[0097] The biasing member 3A is connected to the inside of the body-side sealing loop 113 and the inside of the open/close-lid-side sealing loop 22 in FIG. 5 and FIG. 6, however, the biasing member 3A may be connected to the outside of the body-side sealing loop 113 and the outside of the open/close-lid-side sealing loop 22, that is, to portions each formed of an elastic material and extending to stick outward.

[0098] The upper fitting portion 116 of the upper container body 11 and the lower fitting portion 121 of the lower container body 12 are not limited to those shown in FIG. 1 to FIG. 4. For example, as shown in FIG. 5, the upper container body 11 may have an upper fitting portion 116A having upper projections 1162 and upper recessed portions 1163 at regular intervals, and the lower container body 12 may have a lower fitting portion 121A having lower projections 1212 and lower recessed portions 1213 at regular intervals. The projections and recessed portions fit to each other when the container body 1 is closed, and the upper fitting portion 116A and the lower fitting portion 121A fit to each other.

[0099] Because such an upper fitting portion and lower fitting portion can firmly fit to each other, the upper container body and the lower container body are unlikely to come off during usage of the container for housing household tissue paper.

[0100] Furthermore, the container body is not limited to one having the upper container body 11 and the lower container body 12 that is opened and closed in the middle as shown in the drawings. For example, the lower surface of the container may be formed so as to be opened.

Industrial Applicability

[0101] The present invention is suitably applied in a technical field of manufacturing a container for housing household tissue paper.

Reference Signs List

[0102]

100, 100A	Container for Housing Household Tissue Paper
1	Container Body
112	Outlet
113	Body-Side Sealing Loop
114	Latch
115	Upper Nonslip Portion (Nonslip Portion)
2	Open/Close Lid
22	Open/Close-Lid-Side Sealing Loop
3, 3A	Biasing Member
P	Household Tissue Paper

Claims

1. A container for housing household tissue paper comprising:

a container body that stores household tissue paper inside and has an outlet through which the household tissue paper is taking out; an open/close lid that is pivotably provided to the container body and closes the outlet; and a biasing member, wherein at least a part of the container body is formed of an elastic material, and the container body has a latch that latches the open/close lid in a closing state and releases and opens the open/close lid, and the biasing member is formed of the elastic material integrally with the part of the container body formed of the elastic material and biases the open/close lid in an opening direction.

2. The container for housing household tissue paper according to claim 1, wherein at least a part of the open/close lid is formed of the elastic material, and the biasing member is integrally formed with the part of the open/close lid formed of the elastic material.

3. The container for housing household tissue paper

according to claim 1 or 2, wherein
hardness of the elastic material is 20 or more and
90 or less.

4. The container for housing household tissue paper 5
according to any one of claims 1 to 3, wherein
the biasing member is embedded in the container
body and the open/close lid.

5. The container for housing household tissue paper 10
according to any one of claims 1 to 3, wherein
only one end of the biasing member is connected to
the part of the container body formed of the elastic
material, and only another end of the biasing mem- 15
ber is connected to a part of the open/close lid formed
of the elastic material.

6. The container for housing household tissue paper
according to any one of claims 1 to 5, wherein 20
the container body has a body-side sealing loop that
is formed of the elastic material and is a loop-shaped
projection surrounding the outlet and protruding in
an upper direction,
the open/close lid has an open/close-lid-side sealing 25
loop that is formed of the elastic material and is a
loop-shaped projection protruding in a lower direc-
tion when the open/close lid is closed, and
the body-side sealing loop and the open/close-lid-
side sealing loop fit to each other when the 30
open/close lid is closed.

7. The container for housing household tissue paper
according to any one of claims 1 to 6, wherein
the container body has a nonslip portion formed of 35
the elastic material near a connecting portion with
the open/close lid.

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FIG. 1

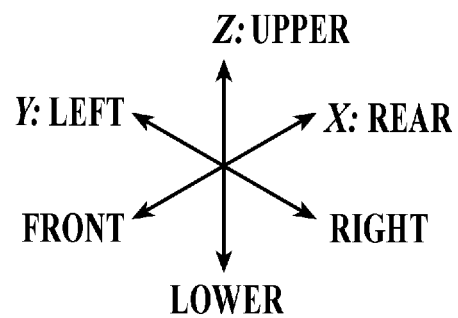
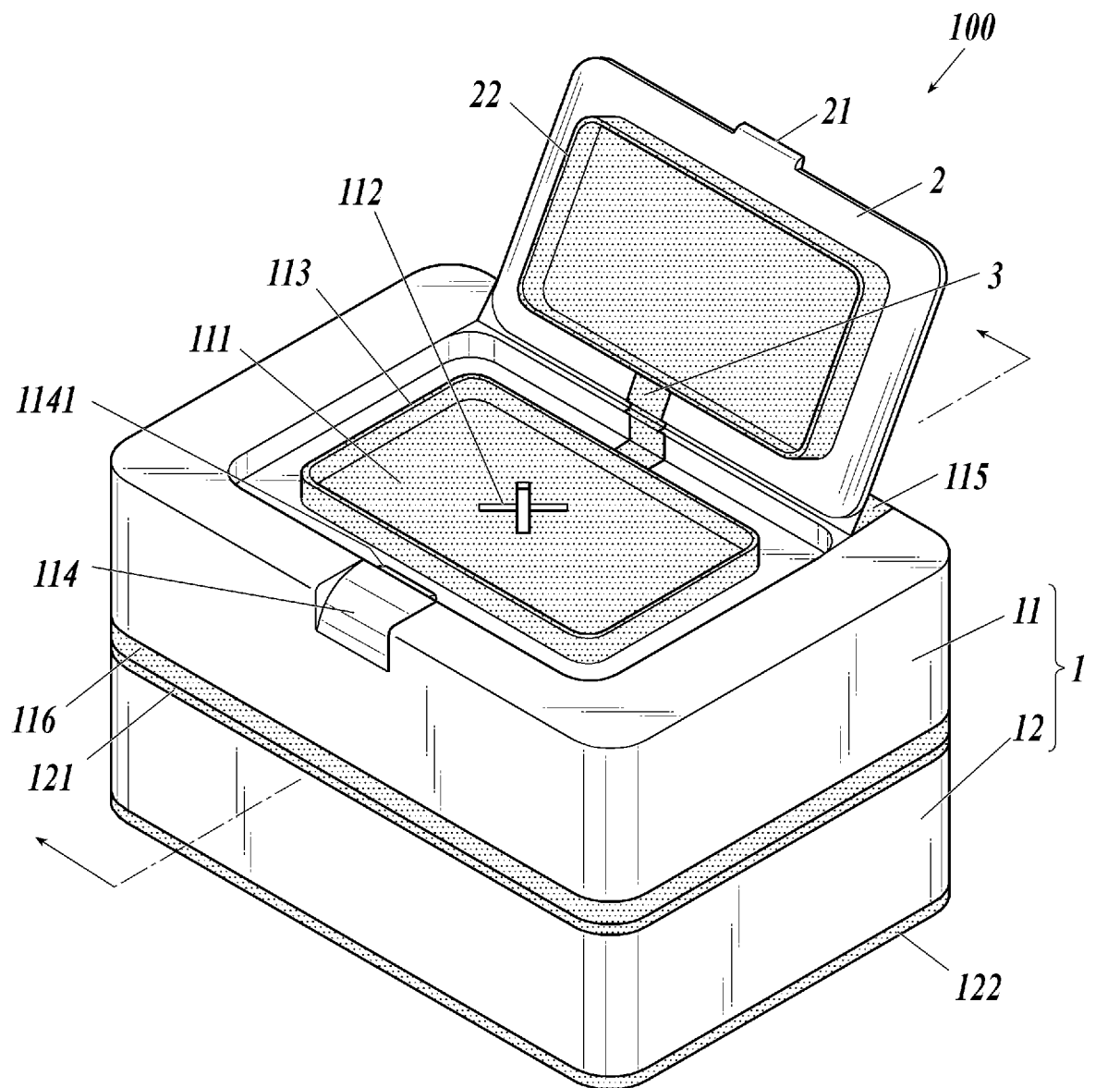


FIG. 2

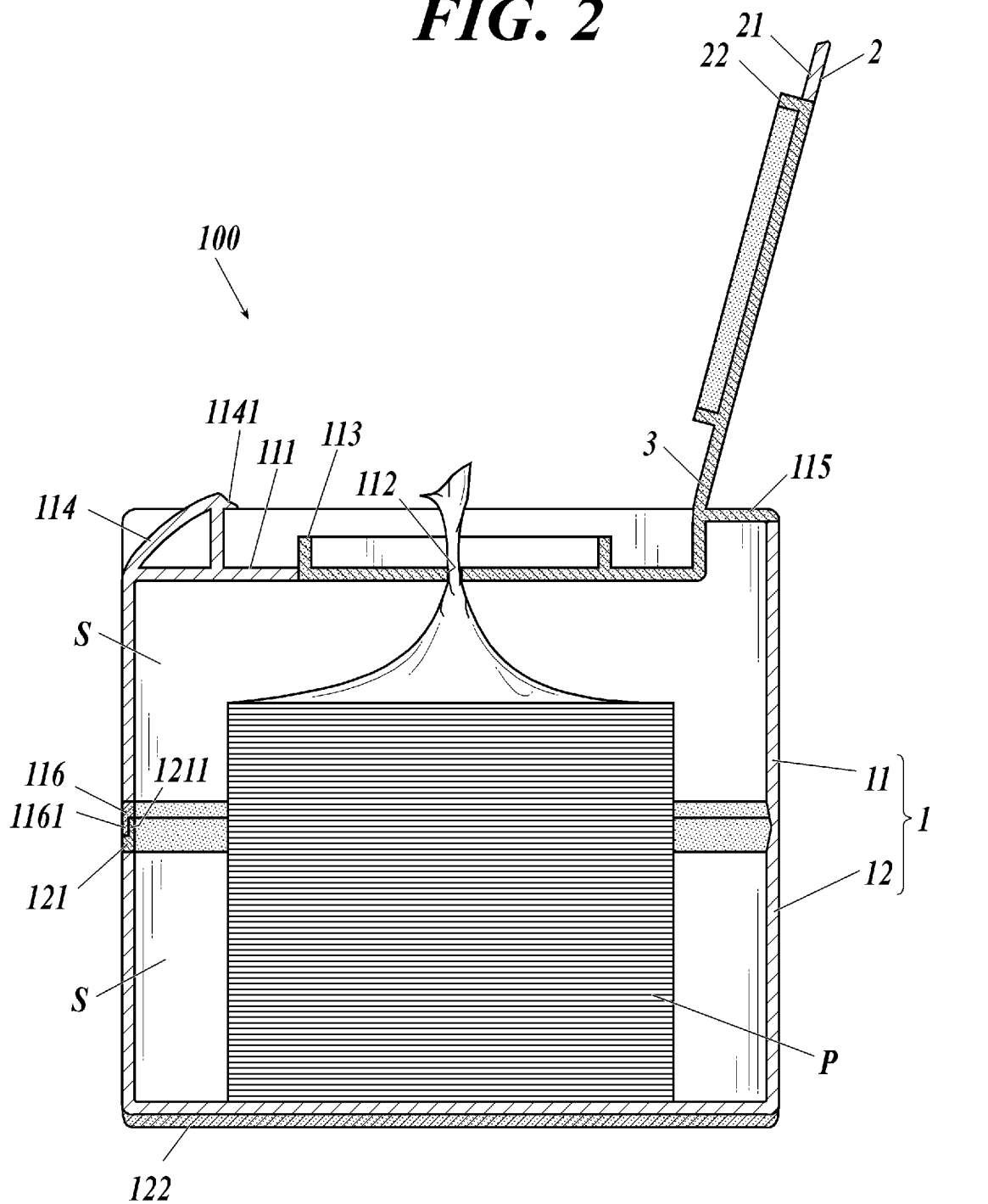


Diagram illustrating the coordinate system for the robot. The vertical axis is labeled **Z: UPPER** at the top and **LOWER** at the bottom. The horizontal axis is labeled **FRONT** on the left and **X: REAR** on the right.

FIG. 3

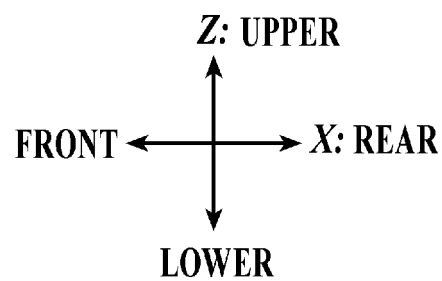
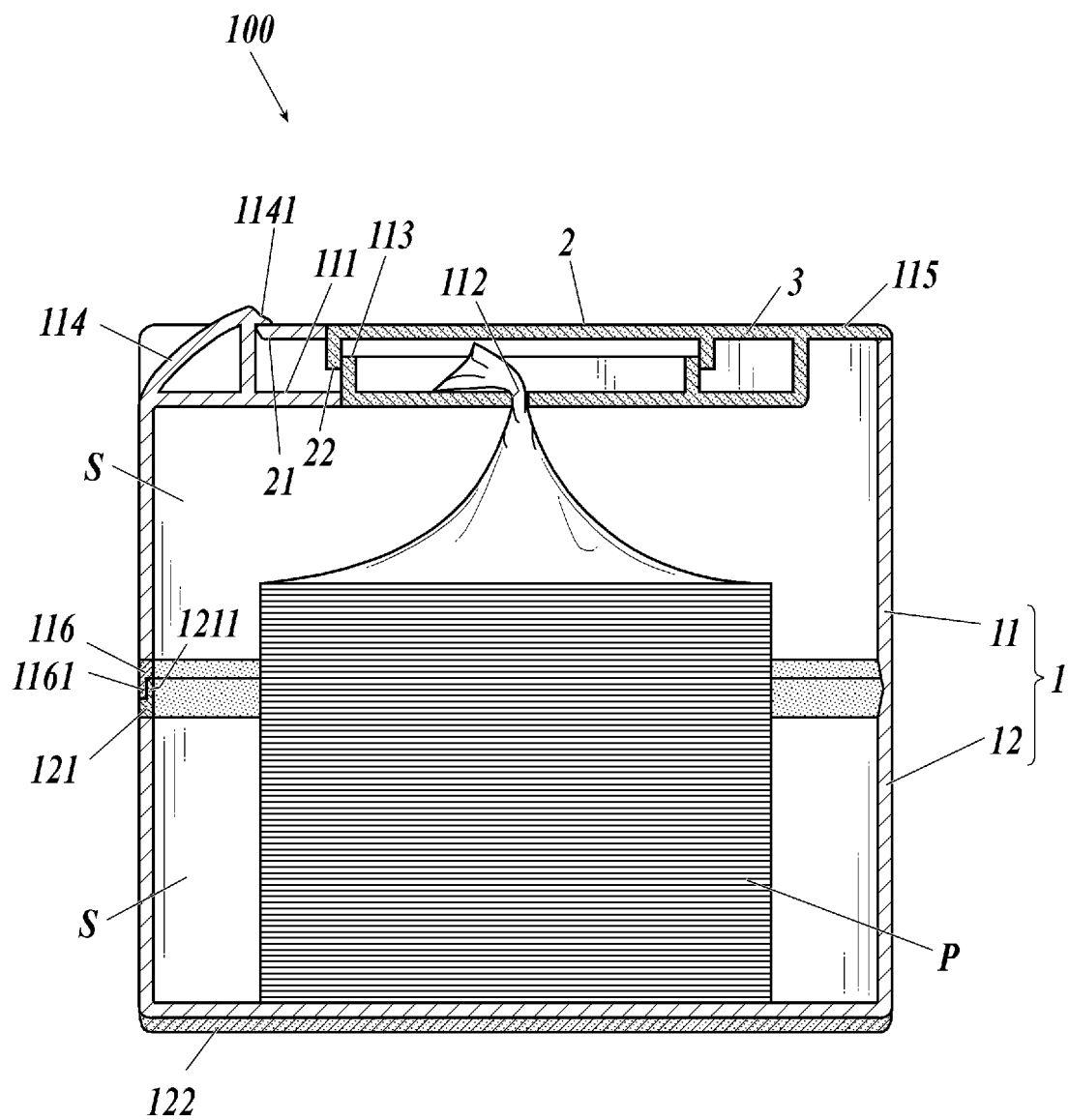


FIG. 4

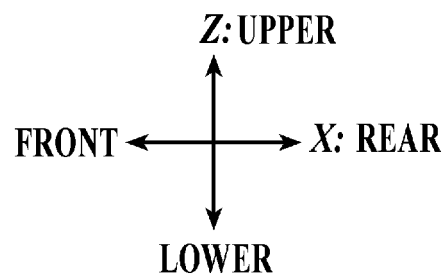
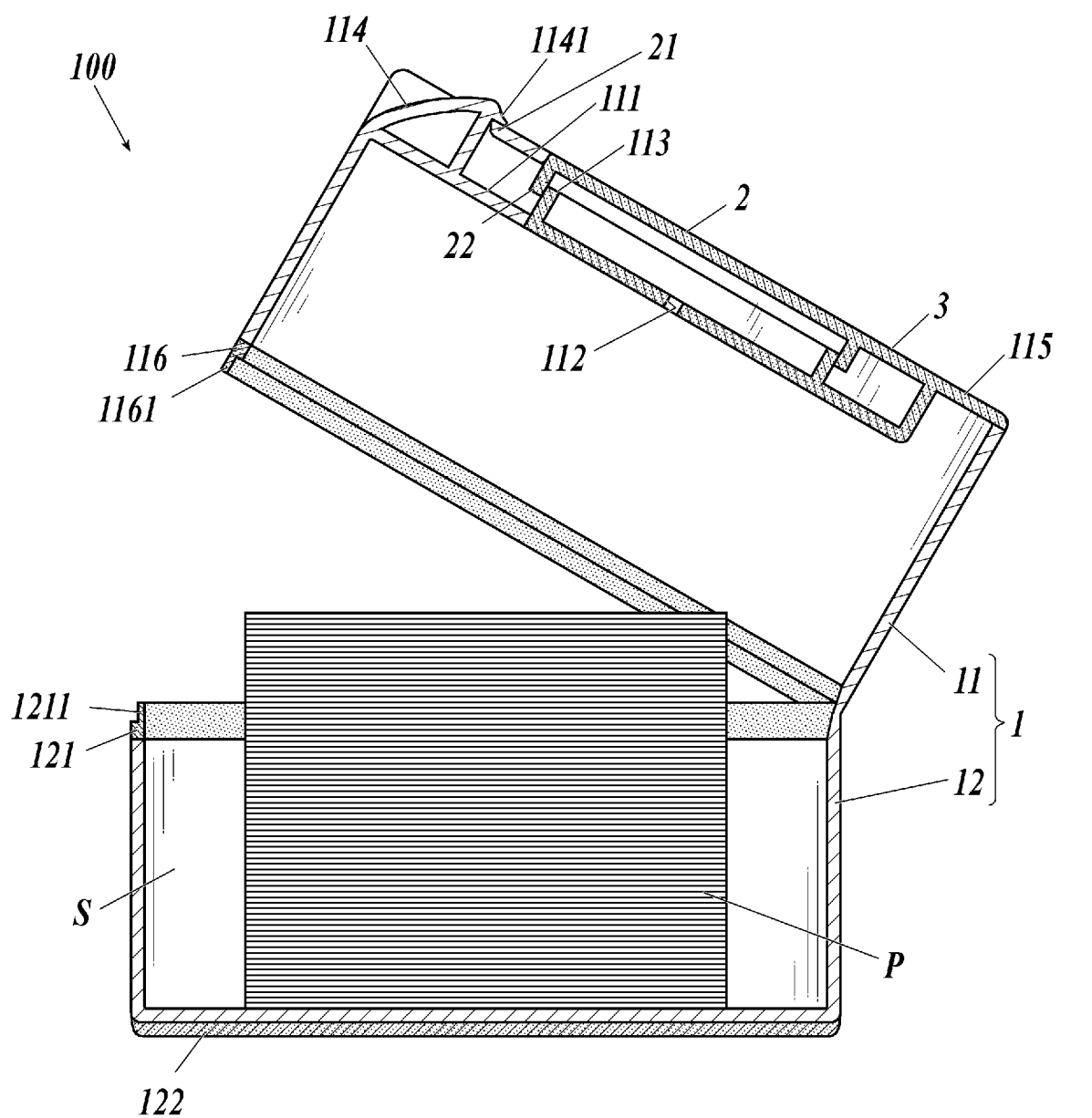


FIG. 5

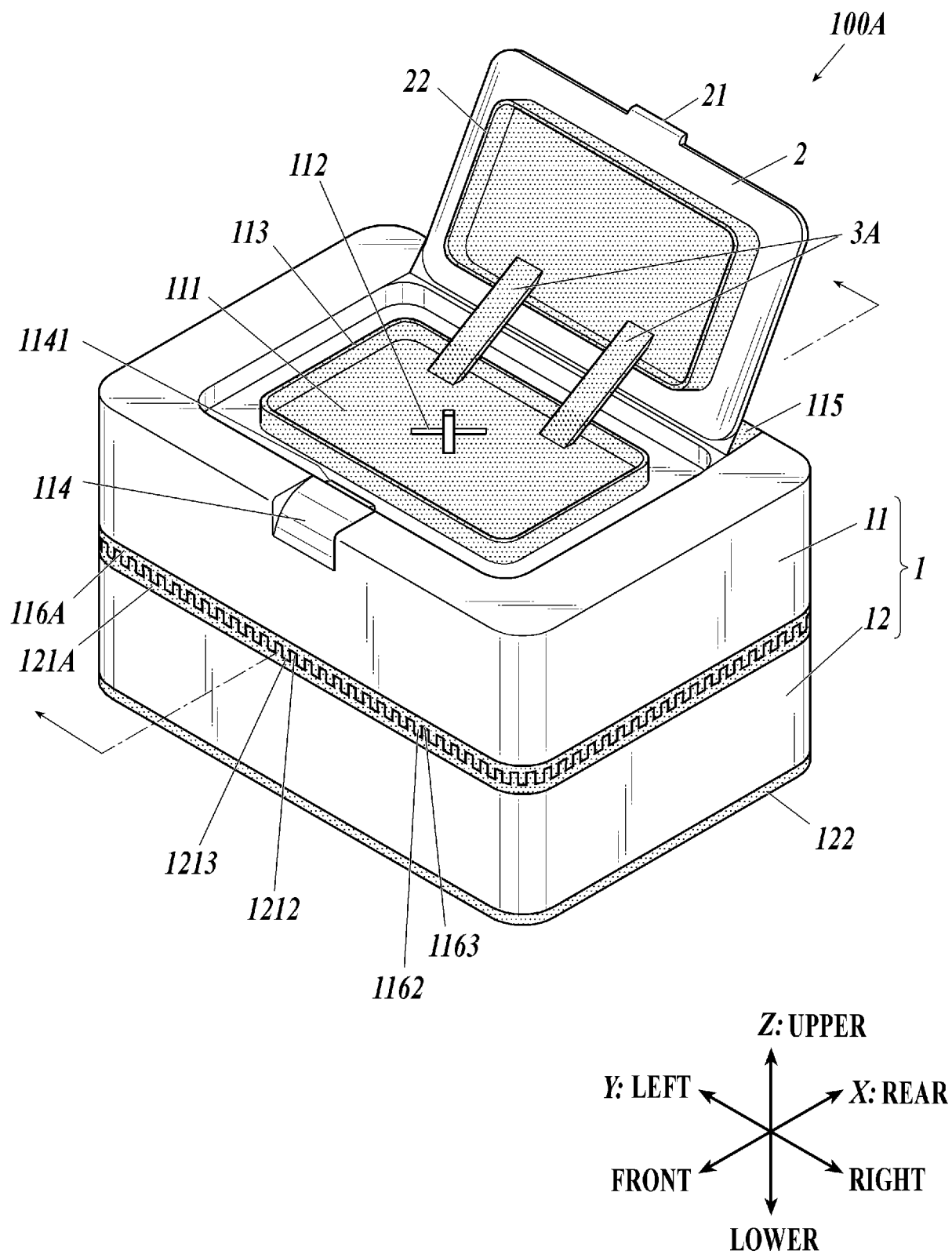
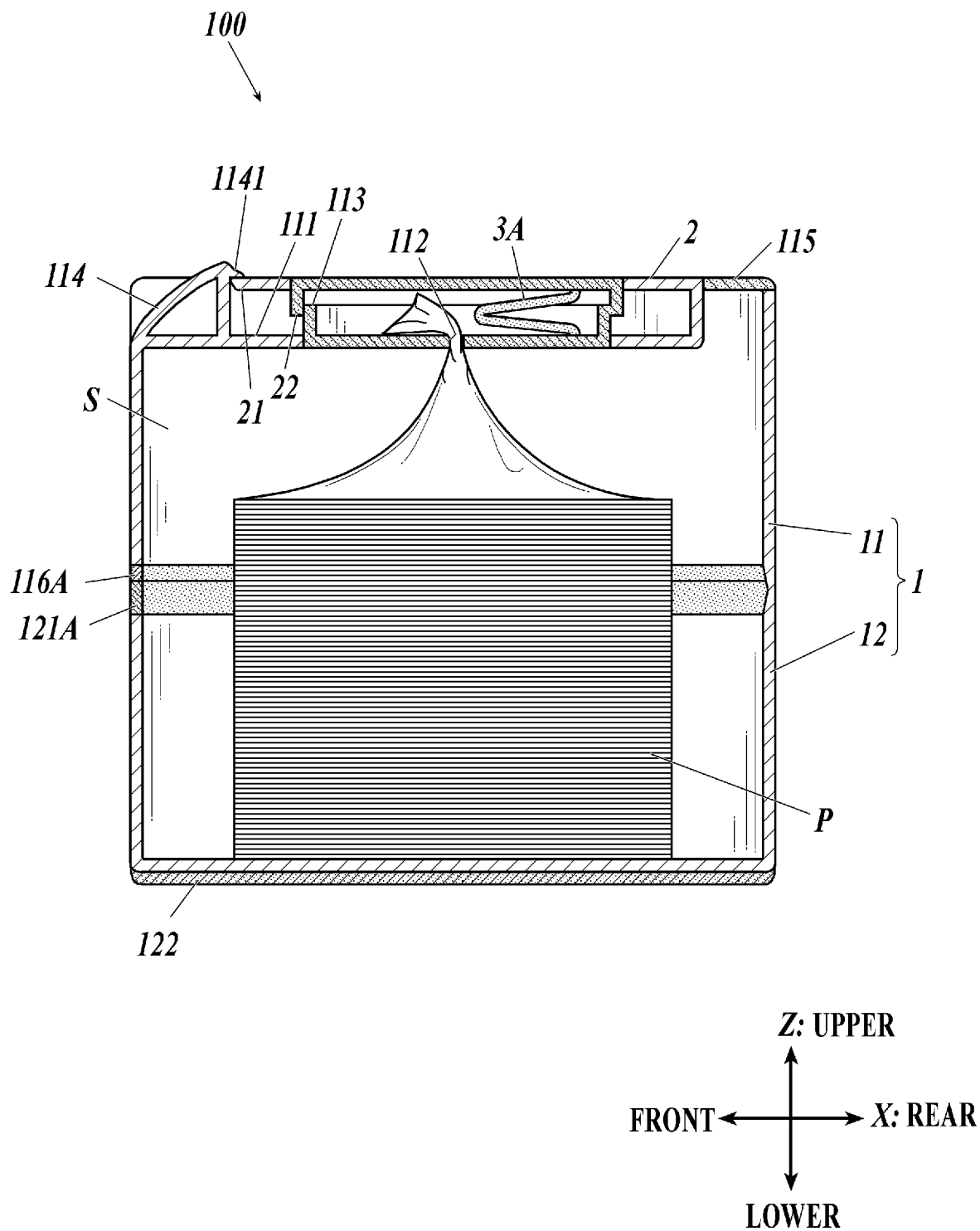


FIG. 6



INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2019/005961

A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl. B65D83/08 (2006.01) i, B65D43/16 (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)

Int.Cl. B65D83/08, B65D43/16

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Published examined utility model applications of Japan 1922-1996

Published unexamined utility model applications of Japan 1971-2019

Registered utility model specifications of Japan 1996-2019

Published registered utility model applications of Japan 1994-2019

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X Y	JP 2010-1046 A (TOPPAN PRINTING CO., LTD.) 07 January 2010, paragraphs [0016], [0027]-[0044], fig. 1-3, 8-11 (Family: none)	1 2-7
Y	WO 2016/185844 A1 (UNI-CHARM CORP.) 24 November 2016, paragraph [0021], fig. 3 & TW 201704109 A	2-7
Y	JP 2003-95301 A (UNI-CHARM CORP.) 03 April 2003, paragraph [0057], fig. 7-9 & US 5699912 A, column 6, lines 30-36, fig. 6-8 & EP 748748 A1 & CN 1151962 A	4-7



Further documents are listed in the continuation of Box C.



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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

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Date of the actual completion of the international search

15 May 2019 (15.05.2019)

Date of mailing of the international search report

28 May 2019 (28.05.2019)

Name and mailing address of the ISA/
Japan Patent Office
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Tokyo 100-8915, Japan

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2019/005961

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	JP 2008-207833 A (OJI NEPIA CO., LTD.) 11 September 2008, paragraphs [0037], [0048], fig. 1, 3 (Family: none)	7

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REFERENCES CITED IN THE DESCRIPTION

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Patent documents cited in the description

- JP 3962410 B [0004]