being capable of stably molding the container.

[0024]According to the invention described in claim 5, in the paper container with a stopper described in the invention described in any one of claims 1 to 4, the container main body is formed of a single blank sheet, the blank sheet being made of a paper container material obtained by laminating a sealant on at least a back surface side of a paperboard base material, the blank sheet including: a front panel, a right side panel, a back panel, and a left side panel, which are configured to form the body, and contiguous through body vertical folding lines; a pair of top surface panels, which is configured to form the top, and contiguous with an upper end of the front panel and an upper end of the back panel through top horizontal folding lines so as to be opposed to each other; a pair of folding surface panels, which is configured to form the top, and contiguous with an upper end of the left side panel and an upper end of the right side panel through top horizontal folding lines so as to be opposed to each other; sealing panels, which are contiguous with upper ends of the top surface panels and upper ends of the folding surface panels through sealing-portion horizontal folding lines; a pair of bottom surface panels, which is contiguous with a lower end of the front panel and a lower end of the back panel through bottom horizontal folding lines so as to be opposed to each other; and a pair of inner surface panels, which is contiguous with a lower end of the left side panel and a lower end of the right side panel through bottom horizontal folding lines so as to be opposed to each

which the first top corner portion is directed downward, a corner portion (hereinafter, referred to as a second top corner portion), which is diagonally opposite to the first top corner portion and formed by a top side of the back panel and a top side of the side panel, is directed upward. An apex of an air pocket formed in the top of the tilted container main body matches the second top corner portion.

[0028] Thus, when the container main body is tilted under a state in which the first top corner portion is directed downward, an opposing distance between a liquid surface and an inner surface of the top is increased as compared to that in the related-art paper container with a stopper, which is illustrated in FIG. 21 and includes the top formed so as to have the same inclination angle as that of the top of the present invention. As a result, at the time of discharge of the liquid matter, even when the paper container with a stopper is tilted by a larger angle than the related-art paper container with a stopper, a communication state between an upper portion of the opening of the stopper and the air pocket can be maintained, and the liquid matter can be discharged while suppressing pulsation of the liquid matter. Accordingly, the liquid matter can be discharged easily, quickly, and smoothly.

Advantageous Effects of Invention

[0029] As described above, according to the paper container with a stopper of the present invention, as compared to a container

slightly away from the first top corner portion 11(A), branching from the starting point S to the front panel 2 and the right side panel 3 so as to extend toward the bottom 7 direction, and joining together at the end point E, which is located at the position within the range in which the two recessed-portion forming folding line portions 14 and 15 extend until after reaching the first bottom corner portion 13(A). Accordingly, when the first body corner portion 12(A) is seen from an inner surface side of the container, owing to the first recessed portion 16, a gentle swelling 20 is formed in the first body corner portion 12(A), and an edge portion of the first recessed portion 16 on the first top corner portion 11(A) side forms an inclined surface 21 inclined toward the stopper 10 direction (see FIG. 12).

[0041] When the liquid matter contained inside the container is discharged, the container main body 9 is tilted so that the first top corner portion 11(A) and the first body corner portion 12(A) are directed downward (see FIG. 11 and FIG. 12). Thus, the first body corner portion 12(A) is arranged in a trough-like manner so as to guide the liquid matter in the container main body 9 toward the stopper 10 direction, thereby smoothly discharging the liquid matter.

[0042] Further, in the first body corner portion 12(A) arranged in a trough-like manner, the edge portion on the first top corner portion 11(A) side, on which the swelling 20 is formed owing to the first recessed portion 16, forms the inclined surface 21 inclined

68 of the bottom horizontal folding line 53 of the back panel 4 and the bottom horizontal folding line 57 of the left side panel 5. However, it is only required that the end point E be set to the position within the range in which the two recessed-portion forming folding line portions 17 and 18 extend until after reaching the intersection point 68 of the bottom horizontal folding line 53 of the back panel 4 and the bottom horizontal folding line 57 of the left side panel 5.

[0053] FIG. 14 to FIG. 19 are illustrations of a second example of the paper container with a stopper according to the embodiment of the present invention. FIG. 14 is a right-hand side view for illustrating the second example of the paper container with a stopper. FIG. 15 is a perspective view for illustrating the paper container with a stopper of FIG. 14 when seen from an upper side of the paper container with a stopper. FIG. 16 is a perspective view for illustrating the paper container with a stopper of FIG. 14 when seen from a diagonal direction of a body. FIG. 17 is a schematic vertical sectional explanatory view of FIG. 16. FIG. 18 is an explanatory view for illustrating a state in which the container main body is tilted at the time of discharge of the liquid matter. FIG. 19 is a plan view for illustrating a blank sheet configured to form the container main body of the container with a stopper of FIG. 14.

In description of the second example, the same components as those in the first example are denoted by the same reference symbols.

seen from the inner surface side of the container, owing to the first recessed portion 16, the gentle swelling 20 is formed in the first body corner portion 12(A), and the edge portion of the first recessed portion 16 on the first top corner portion 11(A) side forms the inclined surface 21 inclined toward the stopper 10 direction (see FIG. 17).

[0062] With this configuration, when the liquid matter contained inside the container is discharged, the container main body 9 is tilted so that the first top corner portion 11(A) and the first body corner portion 12(A) are directed downward. Thus, the first body corner portion 12(A) is arranged in a trough-like manner so as to guide the liquid matter in the container main body 9 toward the stopper 10 direction, thereby smoothly discharging the liquid matter.

[0063] Further, in the first body corner portion 12(A) arranged in a trough-like manner, the edge portion on the first top corner portion 11(A) side, on which the swelling 20 is formed owing to the first recessed portion 16, forms the inclined surface 21 inclined toward the stopper 10 direction. Accordingly, the liquid matter flowing in the container main body 9 toward the stopper 10 direction is increased in flow velocity by the inclined surface 21, and pulsation of the liquid matter flowing through the stopper 10 is reduced at the time of discharge of the liquid matter, thereby being capable of smoothly discharging the liquid matter.

[0064] Further, owing to the swelling 20 formed in the first

Claims

[Claim 1] A paper container with a stopper, comprising:

a container main body including:

a body having a square tubular shape and including a front panel, a right side panel, a back panel, and a left side panel;

a bottom configured to seal a lower opening of the body; and

a flat top configured to seal an upper opening of the body; and

a stopper provided on the top,

wherein the stopper is provided at a position adjacent to a first top corner portion among four top corner portions of the top, the first top corner portion being formed by a top side of the front panel and a top side of any one of the left side panel and the right side panel, and

wherein the body includes a first recessed portion in a first body corner portion among four body corner portions formed by the front panel, the right side panel, the back panel, and the left side panel, the first body corner portion being formed between the front panel and any one of the left side panel and the right side panel forming the first top corner portion at which the stopper is provided, the first recessed portion being surrounded by two recessed-portion forming folding line portions extending from a starting point, which is located at the first top corner portion or at a position slightly away from the first top corner portion,

branching from the starting point to the front panel and any one of the left side panel and the right side panel so as to extend toward the bottom direction, and joining together at an end point, which is located at a position within a range in which the two recessed-portion forming folding line portions extend until after reaching a first bottom corner portion formed by a bottom side of the front panel and a bottom side of any one of the left side panel and the right side panel.

[Claim 2] The paper container with a stopper according to claim 1, wherein the top includes an inclined surface so that a front panel side of the top is low and a back panel side of the top is high.

[Claim 3] The paper container with a stopper according to claim 1 or 2, wherein a length of the first recessed portion from the starting point to the end point is equal to or larger than 50% of a height of the front panel of the body.

[Claim 4] The paper container with a stopper according to any one of claims 1 to 3, wherein a width of a widest portion of the first recessed portion in a horizontal direction is equal to or larger than 10% of a width of the front panel of the body and smaller than 30% of the width of the front panel of the body.

[Claim 5] The paper container with a stopper according to any one of claims 1 to 4,

wherein the container main body is formed of a single blank sheet, the blank sheet being made of a paper container material obtained by laminating a sealant on at least a back surface side of a paperboard base material, the blank sheet including:

a front panel, a right side panel, a back panel, and a left side panel, which are configured to form the body, and contiguous through body vertical folding lines;

a pair of top surface panels, which is configured to form the top, and contiguous with an upper end of the front panel and an upper end of the back panel through top horizontal folding lines so as to be opposed to each other;

a pair of folding surface panels, which is configured to form the top, and contiguous with an upper end of the left side panel and an upper end of the right side panel through top horizontal folding lines so as to be opposed to each other;

sealing panels, which are contiguous with upper ends of the top surface panels and upper ends of the folding surface panels through sealing-portion horizontal folding lines;

a pair of bottom surface panels, which is contiguous with a lower end of the front panel and a lower end of the back panel through bottom horizontal folding lines so as to be opposed to each other; and

a pair of inner surface panels, which is contiguous with

a lower end of the left side panel and a lower end of the right side panel through bottom horizontal folding lines so as to be opposed to each other,

wherein, in the top surface panel contiguous with the upper end of the front panel, a stopper mounting opening portion is formed at a position adjacent to an intersection point of the top horizontal folding line at the upper end of the front panel and a top vertical folding line between the top surface panel and any one of the pair of folding surface panels, the top horizontal folding line and the top vertical folding line forming the first top corner portion, and

wherein the body vertical folding line between the front panel and any one of the left side panel and the right side panel forms the first body corner portion, is continuous with the intersection point, and includes two recessed-portion forming folding line portions configured to form the first recessed portion, the two recessed-portion forming folding line portions extending from a starting point, which is located at the intersection point or at a position slightly away from the intersection point, branching from the starting point to the front panel and any one of the left side panel and the right side panel so as to extend toward the bottom horizontal folding line of the front panel and the bottom horizontal folding line of any one of the left side panel and the right side panel, and joining together at an end point, which is located at a position within a range in which the two recessed-portion forming

folding line portions extend until after reaching an intersection point of the bottom horizontal folding line of the front panel and the bottom horizontal folding line of any one of the left side panel and the right side panel.

[Claim 6] A paper container with a stopper, comprising:

a container main body including:

a body having a square tubular shape and including a front panel, a right side panel, a back panel, and a left side panel;

a bottom configured to seal a lower opening of the body; and

a flat square top configured to seal an upper opening of the body; and

a stopper provided on the top,

wherein the top includes an inclined surface so that a front panel side of the top is low and a back panel side of the top is high, and

wherein the stopper is provided at a position adjacent to a first top corner portion among four top corner portions of the top, the first top corner portion being formed by a top side of the front panel and a top side of any one of the left side panel and the right side panel.