CLAIMS

[Claim 1] A funnel component that is fitted into a cylindrical container body having an open end, a bottom portion, and a side wall, and that forms a packaging container, the funnel component comprising:

a funnel portion having a diameter that is increased from a narrow opening side toward a wide opening side;

a tubular discharge portion that connects with an end portion on the narrow opening side; and

a cylindrical side wall portion that surrounds an opening portion, on the wide opening side, of the funnel portion, connects with the funnel portion, and is fitted into the container body, wherein

the funnel portion, the discharge portion, and the side wall portion are integrally formed by using a sheet member including paper and a sealant layer, and

a folded portion formed by the sheet member being folded back and welded over an entire circumference is provided at an opening portion of the discharge portion.

[Claim 2] The funnel component according to claim 1, wherein

the funnel portion includes a first tapered portion on the wide opening side, and a second tapered portion that is closer to the narrow opening side than the first tapered portion is, and

a taper angle of the second tapered portion is greater than a taper angle of the first tapered portion.

[Claim 3] The funnel component according to claim 1 or 2, wherein the folded portion of the sheet member has a corrugated edge.

[Claim 4] A packaging container, comprising:

a cylindrical container body having an open end, a bottom portion, and a side wall;

a funnel component, according to any one of claims 1 to 3, which is fitted into the container body such that a narrow opening side portion is directed toward an open end side of the container body; and

a sealing lid that seals the open end of the container body, and is cut by an external pressing force.

[Claim 5] The packaging container according to claim 4, wherein an opening portion, on the narrow opening side, of the funnel component projects from a plane of the container body including the open end of the container body, and a projecting distance is greater than 0 mm and less than or equal to 2 mm.

[Claim 6] The packaging container according to claim 4 or 5, wherein the sealing lid includes perforation lines.

[Claim 7] The packaging container according to claim 6, wherein adhesion portions are formed in regions each of which is between the perforation lines, and is not on the perforation lines formed on the sealing lid, and, at the adhesion portions, the opening portion, on the narrow opening side, of the funnel portion is partially adhered to the sealing lid.

[Claim 8] The packaging container according to claim 6 or 7, wherein
the sealing lid includes:
a lower film that has a circumferential edge portion which is sealed to an opening portion of the container body to seal the container body, that has the perforation lines which are provided in a center portion other than the circumferential edge portion so as to radially extend, and that is to be cut by being externally pressed; and
an upper film that is adhered to the lower film over the entire circumference of the circumferential edge portion of the lower film and in at least one adhesion region that is partially formed in a region which does not include the perforation lines of the center portion, such that the upper film is separable from the lower film.

[Claim 9] The packaging container according to claim 8, wherein the adhesion region for the sealing lid includes a plurality of circular regions that are point-symmetric with respect to a center meeting portion of the perforation lines.

[Claim 10] The packaging container according to claim 6 or 7, wherein
the sealing lid includes
a lower film that has a circumferential edge portion which is sealed to an opening portion of the container body to seal the container body, that has the perforation lines which are provided in a center portion other than the circumferential edge portion so as to radially extend, and that is to be cut by being externally pressed; and
an upper film that is adhered to the lower film over the entire circumference of

the circumferential edge portion of the lower film and in at least one adhesion region that is formed in at least a portion of a region which includes the perforation lines of the center portion, such that the upper film is separable from the lower film.

[Claim 11] The packaging container according to any one of claims 8 to 10, wherein the adhesion region for the sealing lid includes an annular region that surrounds the perforation lines.

[Claim 12] The packaging container according to claim 11, wherein

the annular region includes an increased width portion in which a width is partially greater than another portion, and

the upper film has an air slit that passes through an inner circumferential edge portion of the increased width portion.

[Claim 13] The packaging container according to claim 11 or 12, wherein the adhesion region for the sealing lid further includes a circular region that has, as a center thereof, the center meeting portion of the perforation lines, and a plurality of circular regions that are on the perforation lines inside an inner diameter of the funnel component and that are point-symmetric with respect to the center meeting portion of the perforation lines.

[Claim 14] The packaging container according to claim 11 or 12, wherein the adhesion region for the sealing lid further includes a circular region that has, as a center thereof, the center meeting portion of the perforation lines, and one region formed on each perforation line inside an inner diameter of the funnel component and one region formed on each perforation line outside the inner diameter of the funnel component, such that the regions formed on each perforation line inside and outside the inner diameter of the funnel component are point-symmetric with respect to the center meeting portion of the perforation lines.

[Claim 15] The packaging container according to claim 11 or 12, wherein the adhesion region for the sealing lid further includes a circular region that has, as a center thereof, the center meeting portion of the perforation lines, and two regions formed on each perforation line inside an inner diameter of the funnel component and one region formed on each perforation line outside the inner diameter of the funnel component, such that the regions formed on each perforation line inside and outside the inner diameter of the funnel component are point-symmetric with respect to the center meeting portion of the perforation lines.

[Claim 16] The packaging container according to any one of claims 8 to 15, wherein
the sealing lid further includes a tab that extends from a portion of the circumferential edge portion, and
the upper film and the lower film are adhered to each other in a part a region of the tab including a tip thereof, and the lower film is cut across the tab in a region other than the part of the region.

[Claim 17] The packaging container according to claim 16, wherein the tab is welded to the side wall of the container body.

[Claim 18] The packaging container according to any one of claims 8 to 17, wherein
the upper film includes a laminated structure having a barrier film and an easy peel member, and
the lower film includes a laminated structure having a polyethylene terephthalate layer and a polyethylene layer.

[Claim 19] The packaging container according to claim 18, wherein the sealing lid is pressed along an outer edge of the opening portion of the container body and welded to the opening portion.

[Claim 20] The packaging container according to claim 19, wherein the sealing lid includes a region in which the upper film and the lower film are not welded to each other, in a portion outward of a region where the sealing lid and the opening portion of the container body are welded to each other.

[Claim 21] The packaging container according to any one of claims 4 to 20, wherein
a rigidity of the side wall is higher than a rigidity of the bottom portion, and
a plurality of ruled lines are provided on an outer surface portion of the bottom portion so as to radially extend as viewed from a center portion of the bottom portion.

[Claim 22] The packaging container according to claim 21, wherein the bottom portion projects outward of the packaging container.

[Claim 23] The packaging container according to claim 21 or 22, wherein
an outer edge portion of the bottom portion and a lower end portion of the side

wall

overlap each other in a state where the lower end portion of the side wall is folded back inward to sandwich the outer edge portion of the bottom portion, and

includes a non-sealed portion that is formed such that a portion, of an overlapping region, which is higher than a predetermined height is not sealed in a state where a portion, of the overlapping region, ranging from a folding-back position to the predetermined height is sealed.

[Claim 24] The packaging container according to any one of claims 21 to 23, wherein the ruled lines are equally spaced from each other.

[Claim 25] The packaging container according to any one of claims 4 to 24, further comprising a sticker label having, in a part of a circumferential edge portion, a plurality of recesses each formed in a curved line in a planer shape, and

the sticker label is adhered to a surface of the sealing lid, which forms an outer side of the packaging container.

CLAIMS

[Claim 1] A funnel component that is fitted into a cylindrical container body having an open end, a bottom portion, and a side wall, and that forms a packaging container, the funnel component comprising:

a funnel portion having a diameter that is increased from a narrow opening side toward a wide opening side;

a tubular discharge portion that connects with an end portion on the narrow opening side; and

a cylindrical side wall portion that surrounds an opening portion, on the wide opening side, of the funnel portion, connects with the funnel portion, and is fitted into the container body, wherein

the funnel portion, the discharge portion, and the side wall portion are integrally formed by using a sheet member including paper and a sealant layer,

a folded portion formed by the sheet member being folded back and welded over an entire circumferential is provided at an opening portion of the discharge portion; and

the funnel portion includes a first tapered portion on the wide opening side, and a second tapered portion that is closer to the narrow opening side than the first tapered portion is, and

a taper angle of the second tapered portion is greater than a taper angle of the first tapered portion.

[Claim 2] The funnel component according to claim 1, wherein the folded portion of the sheet member has a corrugated edge.

[Claim 3] A packaging container, comprising:

a cylindrical container body having an open end, a bottom portion, and a side wall;

a funnel component according to claim 1 or 2, which is fitted into the container body such that a narrow opening side portion is directed toward an open end side of the container body; and

a sealing lid that seals the open end of the container body, and is cut by an external pressing force.

[Claim 4] The packaging container according to claim 3, wherein the sealing lid includes perforation lines.

[Claim 5] The packaging container according to claim 4, wherein adhesion portions are formed in regions each of which is between the perforation lines, and is not on the perforation lines formed on the sealing lid, and, at the adhesion portions, the opening portion, on the narrow opening side, of the funnel portion adhered to the sealing lid.

[Claim 6] The packaging container according to claim 4 or 5, wherein the sealing lid includes:

a lower film that has a circumferential edge portion which is sealed to an opening portion of the container body to seal the container body, that has the perforation lines which are provided in a center portion other than the circumferential edge portion so as to radially extend, and that is to be cut by being externally pressed; and

an upper film that is adhered to the lower film over the entire circumferential of the circumferential edge portion of the lower film and in at least one adhesion region that is partially formed in a region which does not include the perforation lines of the center portion, such that the upper film is separable from the lower film.

[Claim 7] The packaging container according to claim 4 or 5, wherein

the sealing lid includes

a lower film that has a circumferential edge portion which is sealed to an opening portion of the container body to seal the container body, that has the perforation lines which are provided in a center portion other than the circumferential edge portion so as to radially extend, and that is to be cut by being externally pressed; and

an upper film that is adhered to the lower film over the entire circumference of the circumferential edge portion of the lower film and in at least one adhesion region that is formed in at least a portion of a region which includes the perforation lines of the center portion, such that the upper film is separable from the lower film.

[Claim 8] The packaging container according to claim 6 or 7, wherein the adhesion region for the sealing lid includes an annular region that surrounds the perforation lines.

[Claim 9] The packaging container according to claim 8, wherein

the annular region includes an increased width portion in which a width is partially greater than another portion, and

the upper film has an air slit that passes through an inner circumferential edge portion of the increased width portion.

[Claim 10] The packaging container according to claim 8 or 9, wherein the adhesion region for the sealing lid further includes a circular region that has, as a center thereof, the center meeting portion of the perforation lines, and one region formed on each perforation line inside an inner diameter of the funnel component and one region formed on each perforation line outside the inner diameter of the funnel component, such that the regions formed on each perforation line inside and outside the inner diameter of the funnel component are point-symmetric with respect to the center meeting portion of the perforation lines.

[Claim 11] The packaging container according to claim 8 or 9, wherein the adhesion region or the sealing lid further includes a circular region that has, as a center thereof, the center meeting portion of the perforation lines, and two regions formed on each perforation line inside an inner diameter of the funnel component and one region formed on each perforation line outside the inner diameter of the funnel component, such that the regions formed on each perforation line inside and outside the inner diameter of the funnel component are point-symmetric with respect to the center meeting portion of the perforation lines.

[Claim 12] The packaging container according to any one of claims 6 to 11, wherein

the sealing lid further includes a tab that extends from a portion of the circumferential edge portion, and

the upper film and the lower film are adhered to each other in a part a region of the tab including a tip thereof, and the lower film is cut across the tab in a region other than the part of the region.

[Claim 13] The packaging container according to claim 12, wherein the tab is welded to the side wall of the container body.

[Claim 14] The packaging container according to any one of claims 6 to 13, wherein

the upper film includes a laminated structure having a barrier film and an easy peel

member, and

the lower film includes a laminated structure having a polyethylene terephthalate layer and a polyethylene layer.

[Claim 15] The packaging container according to claim 14, wherein the sealing lid includes a region in which the upper film and the lower film are not welded to each other, in a portion outward of a region where the sealing lid and the opening portion of the container body are welded to each other.

[Claim 16] The packaging container according to any one of claims 3 to 15, wherein

a rigidity of the side wall is higher than a rigidity of the bottom portion, and

a plurality of ruled lines are provided on an outer surface portion of the bottom portion so as to radially extend as viewed from a center portion of the bottom portion.

[Claim 17] The packaging container according to claim 16, wherein the bottom portion projects outward of the packaging container.

[Claim 18] The packaging container according to claim 16 or 17, wherein

an outer edge portion of the bottom portion and a lower end portion of the side wall overlap each other in a state where the lower end portion of the side wall is folded back inward to sandwich the outer edge portion of the bottom portion, and

includes a non-sealed portion that is formed such that a portion, of an overlapping region, which is higher than a predetermined height is not sealed in a state where a portion, of the overlapping region, ranging from a folding-back position to the predetermined height is sealed.

[Claim 19] The packaging container according to any one of claims 3 to 18, further comprising a sticker label having, in a par of a circumferential edge portion, a plurality of recesses each formed in a curved line in a planar shape, and

the sticker label is adhered to a surface of the sealing lid, which forms an outer side of the packaging container.