[0006a]

In an aspect, the present disclosure refers to a pouring spout provided to a refill container for pouring contents into a packaging container, and for pouring out the contents stored in the refill container. The pouring spout comprises at least a bonded part bonded to a pouch main body part constituting the refill container, a tubular part for pouring out the contents, a flange part jutting outward at a boundary portion between the bonded part and the tubular part, a channel for passing the contents from an inside to an outside of the refill container, and a closing member for opening and closing the channel. When the nozzle of the pouring unit is inserted into the channel of the pouring spout, both end portions of the flange part separated farthest in a horizontal direction jut slightly outward from an area facing a peripheral wall part surrounding a nozzle of the packaging container.

[0007]

A pouring spout according to an example is a pouring spout provided to a refill container for pouring contents into a packaging container, and for pouring out the contents stored in the refill container. The pouring spout comprises at least a bonded part bonded to a pouch main body part constituting the refill container, a tubular part for pouring out the contents, a flange part jutting outward at a boundary portion between the bonded part and the tubular part, a channel for passing the contents from an inside to an outside of the refill container, and a closing member for opening and closing the channel. The packaging container includes a container main body and a pouring unit for pouring out the contents stored in the container main body. The pouring unit includes a nozzle for pouring out the contents and a peripheral wall part surrounding the nozzle. Both end portions of the flange part separated farthest in a horizontal direction jut slightly outward from an area facing the peripheral wall part.

[0008]

According to an example, both end portions of the flange part separated farthest in the horizontal direction jut slightly outward from an area facing the peripheral wall part, and thus positions of fingers placed on both sides of the tubular part from a center are the same or substantially the same. This makes it possible to make forces of pressing the pouring spout with the fingers placed on both sides of the tubular part the same or substantially the same. Even if the forces of pressing the pouring spout with the fingers placed on both sides of the tubular part differ, the vicinity of the tubular part is pressed, making it possible to suppress the tilting of the refill container. Therefore, it is possible to accurately insert the nozzle of the packaging container into the channel of the pouring spout, and pour the contents of the refill container into the packaging container without spilling.

[0009]

In the pouring spout according to an example, the bonded part is formed tapering from a center of the bonded part in one direction of two orthogonal directions toward both sides in the one direction, and has an arcuate outer shape projecting outward in the other direction.

[0010]

According to an example, the bonded part is formed tapering from the center of the bonded part in one direction of two orthogonal directions toward both sides in the one direction, and has an arcuate outer shape projecting outward in the other direction, making it possible to secure the channel of the pouring spout in an area in which the pouring spout and the pouch main body part are bonded together. This makes it possible to smoothly transfer contents from the refill container into the packaging container.

[0011]

In the pouring spout according to an example, an outer shape of the flange part is circular, elliptical, polygonal, or a combination thereof.

[0012]

According to an example, the outer shape of the flange part is circular, elliptical, polygonal, or a combination thereof, making it possible to select a flange part having a design corresponding to an individual refill container.

[0013]

In the pouring spout according to an example, the flange part includes an arcuate part having an arcuate shape around the tubular part and jutting outward, and a jutting part jutting outward in the one direction, the jutting part being formed with a dimension in the other direction smaller than a diameter of the tubular part.

[0014]

According to an example, the pouring spout includes the jutting part jutting outward in the one direction of the two directions mentioned above, the jutting part being formed with a dimension in the other direction smaller than a diameter of the tubular part, thereby limiting the positions of the flange part where the fingers are placed. As a result, when the flange part is pressed and the nozzle of the packaging container is inserted into the channel, it is possible to maintain a posture of the refill container, suppress tilting, and insert the nozzle more accurately.

[0015]

According to the present disclosure, it is possible to provide a pouring spout that allows a nozzle of a packaging container to be accurately inserted into a pouring spout of a refill container.

BRIEF DESCRIPTION OF THE DRAWINGS

[0016]

Fig. 1 is a plan view of a refilling container provided with a pouring spout according to the present invention.

Fig. 2 is a side view of the pouring spout according to the present invention as viewed from a side.

Figs. 3A and 3B are drawings illustrating a pouring spout of a first embodiment, Fig. 3A being a perspective view and Fig. 3B being a plan view.

Figs. 4A and 4B are drawings illustrating a pouring spout of a second embodiment, Fig. 4A being a perspective view and Fig. 4B being a plan view.

Figs. 5A and 5B are drawings illustrating a pouring spout of a third embodiment, Fig. 5A being a perspective view and Fig. 5B being a plan view.

Fig. 6 is a side view illustrating a packaging container to be replenished with contents from the refilling container.

Fig. 7 is a perspective view of a pouring unit.

Fig. 8 is an explanatory view for explaining an action of pressing the pouring spout toward the pouring unit.

Fig. 9 is an explanatory view for explaining an action of inserting a nozzle into a channel of the pouring spout.

Embodiments of the Invention

[0017]

An embodiment of the present invention is described below with reference to the dra wings. The present invention includes inventions of the same technical idea as the modes set f orth in the embodiments and drawings described below, and the technical scope of the

What is claimed is:

1. A pouring spout provided to a refill container for pouring contents into a packaging container, and for pouring out the contents stored in the refill container, the pouring spout comprising at least:

a bonded part bonded to a pouch main body part constituting the refill container;

a tubular part for pouring out the contents;

a flange part jutting outward at a boundary portion between the bonded part and the tubular part;

a channel for passing the contents from an inside to an outside of the refill container; and

a closing member for opening and closing the channel,

when the nozzle of the pouring unit is inserted into the channel of the pouring spout, both end portions of the flange part separated farthest in a horizontal direction jutting slightly outward from an area facing a peripheral wall part surrounding a nozzle of the packaging container.

2. The pouring spout according to claim 1, wherein

the bonded part is formed tapering from a center of the bonded part in one direction of two orthogonal directions toward both sides in the one direction, and has an arcuate outer shape projecting outward in the other direction.

3. The pouring spout according to claim 1 or 2, wherein

an outer shape of the flange part is circular, elliptical, polygonal, or a combination thereof.

4. The pouring spout according to claim 1 or 2, wherein

the flange part includes an arcuate part having an arcuate shape around the tubular part and jutting outward, and a jutting part jutting outward in the one direction, the jutting part being formed with a dimension in the other direction smaller than a diameter of the tubular part.