PTL 2: Unexamined Japanese Patent Publication No. 2-1091

PTL 3: Unexamined Japanese Patent Publication No. 2000-342894

PTL 4: Unexamined Japanese Patent Publication No. 2008-99919

SUMMARY

[0005]

Embodiments of the present invention are to provide a washing machine capable of supplying a sufficiently foamed detergent solution for washing clothes.

[0006]

A washing machine according to an aspect includes a detergent case that is provided with a first storage chamber in which a detergent is stored, and a channel structure part that forms a channel above the detergent case. The channel structure part is provided with a plurality of dropping holes that direct water from the channel toward the detergent case. The detergent case includes a separation wall that separates the first storage chamber into a mixing chamber where the detergent and the water are mixed to produce a solution of the detergent, and a foaming chamber where the solution flowing from the mixing chamber is foamed. The plurality of dropping holes include a first dropping hole that directs the water toward the mixing chamber, and a second dropping hole that directs the water toward the foaming chamber include amendments to claim 1.

[0006a]

A washing machine according to an aspect includes a detergent case that includes a storage chamber in which a detergent is stored; and a water supply box that includes a holding part that forms a storage space in which the detergent case is stored, and a channel structure part that defines a channel

CLAIMS

1. A washing machine comprising:

a detergent case that is provided with a first storage chamber in which a detergent is stored; and

a channel structure part that forms a channel above the detergent case,

wherein the channel structure part is provided with a plurality of dropping holes that direct water from the channel toward the detergent case,

the detergent case includes a separation wall that separates the first storage chamber into a mixing chamber where the detergent and the water are mixed to produce a solution of the detergent, and a foaming chamber where the solution flowing from the mixing chamber is foamed,

the plurality of dropping holes include a first dropping hole that directs the water toward the mixing chamber, and a second dropping hole that directs the water toward the foaming chamber,

the separation wall is provided with a first notch, and

the water supplied to the mixing chamber flows toward the foaming chamber through the first notch,

the detergent case includes a first sectioning wall that sections the first storage chamber,

the first sectioning wall includes a first wall part, the first wall part and the separation wall being configured to section the foaming chamber, and

the first wall part includes a first upper edge disposed apart from the channel structure part,

the detergent case includes a second sectioning wall that sections a second storage chamber disposed adjacent to the mixing chamber, and a boundary wall disposed on a

boundary between the mixing chamber and the second storage chamber,

the plurality of dropping holes include a third dropping hole that directs the water toward the second storage chamber,

the boundary wall is provided with a second notch, and

the water supplied to the second storage chamber flows toward the mixing chamber through the second notch,

the detergent case includes a rib structure that protrudes within the mixing chamber, and

the rib structure extends in a direction crossing a flow line of the water flowing from the second notch to the first notch, and

the rib structure includes a left rib, and a right rib disposed apart from the left rib.

2. The washing machine according to claim 1, wherein the first upper edge is disposed apart from the channel structure part by 5 mm or more.

3. The washing machine according to claim 1, wherein

the first sectioning wall includes a second wall part, the second wall part and the separation wall being configured to section the mixing chamber, and

the second wall part includes a second upper edge disposed closer to the channel structure part than the first upper edge.

4. The washing machine according to claim 1, wherein

the detergent includes a first detergent in a form of powder, and a second detergent in a form of liquid,

the first detergent is supplied to the mixing chamber, and

the second detergent is supplied to the second storage chamber.

5. The washing machine according to claim 1, further comprising a housing,

wherein the detergent case includes a handle exposed from the housing,

the first sectioning wall is connected to the handle, and

the mixing chamber is disposed between the foaming chamber and the

handle.