DESCRIPTION

WASHING MACHINE

TECHNICAL FIELD

[0001] The present disclosure relates to a washing machine.

BACKGROUND ART

[0002] Patent Literature (PTL) 1 discloses a washing machine using a plurality of relay components through which paths from a water supply valve to an automatic liquid-agent feeding device are connected.

[0003] The washing machine in PTL 1 includes the water supply valve that supplies water to a washing tub, a liquid-agent tank that stores a liquid agent therein, and the automatic liquid-agent feeding device that feeds the liquid agent stored in the liquid-agent tank into the washing tub. The paths between the water supply valve and the automatic liquid-agent feeding device are connected by interposing hoses and resin components therebetween.

Citation List

Patent Literature

[0004] PTL 1: Unexamined Japanese Patent Publication No. 2019-181023

SUMMARY

[0005] The present disclosure provides a washing machine that can supply water with a stable flow rate to an automatic liquid-agent feeding device, and that can achieve an increase in volume of a liquid-agent tank in a limited space.

[0006] In one aspect, a washing machine in the present disclosure comprises a housing, a washing tub, a water supply unit, a liquid-agent tank, and an automatic liquid-agent feeding device. The washing tub is provided inside the housing, and is configured to contain laundry. The water supply unit is disposed inside the housing, and supplies water to the washing tub. The liquid-agent tank stores a liquid agent therein. The automatic liquid-agent feeding device feeds the liquid agent stored in the liquid-agent tank to the washing tub. The water supply unit is formed in a box shape to house the liquid-agent tank therein. In the water supply unit, a water guiding path is formed to allow water introduced

from the water supply valve

to flow therethrough. The automatic liquid-agent feeding device is attached on an outer peripheral surface of the water supply unit, and is connected to the water guiding path.

[0007] In another aspect, a washing machine in the present disclosure is a washing machine configured to allow laundry to be loaded from a top side of a housing into the inside thereof in an installation state. The washing machine comprises a lower housing part, a washing tub, an upper housing part, a water supply unit, a liquid-agent tank, and an automatic liquid-agent feeding device. The lower housing part is included in the housing. The washing tub is provided inside the lower housing part, and is formed in a bottomed cylindrical shape opened upward. The upper housing part is included in the housing, and is disposed on top of the lower housing part. In the upper housing part, a loading opening for the laundry is formed, and communicates with the washing tub. The water supply unit is disposed in a rear portion of the upper housing part, and supplies water to the washing tub. The liquid-agent tank stores a liquid agent therein. The automatic liquid-agent feeding device feeds the liquid agent stored in the liquid-agent tank to the washing tub. The water supply unit includes a tank reception part opened toward the loading opening and housing the liquid-agent tank, and a water guiding path configured as an inner structure of the water supply unit and configured to cause water introduced from a water supply valve to flow therethrough. The automatic liquid-agent feeding device is attached on a rear side of the water supply unit, and is directly connected to the water guiding path.

[0008] A washing machine in the present disclosure can supply water with a stable flow rate to an automatic liquid-agent feeding device, and can achieve an increase in volume of a liquid-agent tank in a limited space.

BRIEF DESCRIPTION OF THE DRAWINGS

[0009] Fig. 1 is an external perspective view illustrating a configuration of a washing machine in a first exemplary embodiment, the view illustrating a state in which a lid of the washing machine is closed.

Fig. 2 is an external perspective view illustrating a configuration of the washing machine in the first exemplary embodiment, the view illustrating a state in which the lid of the washing machine is opened.

Fig. 3 is an external perspective view illustrating a configuration of a water supply unit and the periphery of the water supply unit of the washing machine in the first exemplary embodiment, the view illustrating a state in which a detergent case, a detergent