[0006] The present disclosure provides a washing machine with high durability to withstand a stress occurring during the rotation of a lid.

[0007] In one aspect, the washing machine according to the present disclosure includes: a casing; a top cover disposed on the top of the casing; a slot in the top cover; a lid disposed to cover the top of the slot in an openable and closable manner; a bearing configured to rotatably support the lid and has a bearing hole formed; and a damper configured to attenuate a rotational motion of the lid. The top cover includes a top face having a space into which the bearing is to be inserted. The bottom face of the bearing includes: a first face at a side of the bearing, the side being inserted into the space; and a second face at a higher position than the first face. Each of the first face and the second face is fixed to the top cover with a screw. The lid is supported at both a rear right portion and a rear left portion of the lid. The damper is provided in one of the rear right portion and the rear left portion, and a rotating shaft configured to pass through the bearing hole is provided in another one of the rear right portion and the rear left portion of the lid. A shaft provided in the damper is fitted into a bearing hole formed in the bearing. The space includes a first portion closer to the damper and a second portion closer to the rotating shaft, a first rib is in the first portion closer to the damper, a second rib is in the second portion closer to the rotating shaft, and the first rib and the second rib are different in position in the first portion and the second portion, respectively. The bearing includes a first bearing disposed closer to the damper and a second bearing disposed closer to the rotating shaft, and each of the first bearing and the second bearing is provided with a groove at a position corresponding to a corresponding one of the first rib and the second rib.

[0008] The washing machine according to the present disclosure has high durability to withstand a stress occurring during the rotation of the lid.

BRIEF DESCRIPTION OF DRAWINGS

[0009] FIG. 1 is a perspective view of the appearance of a washing machine of Embodiment 1 in a state in which a lid of the washing machine is closed.

FIG. 2 is a perspective view of the appearance of the washing machine in a state in which the lid of the washing machine is opened.

FIG. 3 is a side view illustrating states in which the lid of the washing machine is opened and closed.

FIG. 4 is an exploded perspective view illustrating a structure around the lid of the washing machine.

FIG. 5 is a vertical cross-sectional view illustrating a structure around the bearing of the lid of the washing machine.

FIG. 6 is a horizontal cross-sectional view obtained when the structure around the bearing of the lid of the washing machine is viewed from below.

FIG. 7 is a schematic diagram illustrating a stress occurring around the

CLAIMS

1. A washing machine, comprising:

a casing;

a top cover disposed on a top of the casing;

a slot in the top cover;

a lid disposed to cover a top of the slot in an openable and closable manner; and

a bearing configured to rotatably support the lid and has a bearing hole formed; and

a damper configured to attenuate a rotational motion of the lid,

wherein the top cover includes a top face having a space into which the bearing is to be inserted,

wherein a bottom of the bearing includes

a first face at a side of the bearing, the side being inserted into the space, and

a second face at a higher position than the first face,

wherein each of the first face and the second face is fixed to the top cover with a screw,

wherein the lid is supported at both a rear right portion and a rear left portion of the lid,

wherein the damper is provided in one of the rear right portion and the rear left portion, and a rotating shaft configured to pass through the bearing hole is provided in another one of the rear right portion and the rear left portion of the lid,

wherein a shaft provided in the damper is fitted into a bearing hole formed in the bearing,

wherein the space includes a first portion closer to the damper and a

second portion closer to the rotating shaft,

a first rib is in the first portion closer to the damper,

a second rib is in the second portion closer to the rotating shaft, and

the first rib and the second rib are different in position in the first portion and the second portion, respectively, and

wherein the bearing includes a first bearing disposed closer to the damper and a second bearing disposed closer to the rotating shaft, and each of the first bearing and the second bearing is provided with a groove at a position corresponding to a corresponding one of the first rib and the second rib.