DESCRIPTION

WASHING MACHINE

TECHNICAL FIELD

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

BACKGROUND ART

[0002] A description is provided of a conventional washing machine which is a top-loading washing machine having a lead wire fixed under a water tub.

[0003] The conventional top-loading washing machine includes a housing, the water tub elastically supported inside the housing, a washing and spin-drying tub rotatable inside the water tub, and a motor that is disposed under the water tub to rotate the washing and spin-drying tub. The conventional top-loading washing machine further includes a motor holder that is fixed to a lower part of the water tub and holds the motor, a control device that controls the motor, and the lead wire connecting the motor and the control device. The lead wire, which is connected to the motor, is secured to the motor holder by a lead wire fastening unit on the motor holder (refer to, for example, PTL 1).

Citation List

Patent Literature

[0004] PTL 1: Unexamined Japanese Patent Publication No. H09-276587

SUMMARY

[0005] The present disclosure provides a washing machine that restrains breaks in a lead wire, reduces material cost for a motor holder and enables highly flexible attachment of a lead wire fastening unit.

[0005a] In an aspect, the present disclosure refers to a washing machine comprising:

a housing;

a water tub supported to be swingable inside the housing;

a washing and spin-drying tub rotatable inside the water tub, the washing and spin-drying tub being used to wash and spin-dry laundry;

a motor that rotates the washing and spin-drying tub;

a motor holder securing the motor externally to a bottom of the water tub;

a control device disposed in a rear of the housing and controlling the motor;

a lead wire connecting the motor and the control device;

a water tub-side attaching unit made with a fire-resistive material and disposed externally to the bottom of the water tub, and

a fastening unit fastening the lead wire to the water tub-side attaching unit,

wherein the water tub-side attaching unit includes a fastening side where the fastening unit is disposed, and a shield side that is bent upright from the fastening side, and

the shield side shields a side of the fastening unit which is closer to a center of the water tub, rather than the opposite side of the fastening unit which is away from the center of the water tub.

[0006] A washing machine according to an example of the present disclosure includes a housing, a water tub supported to be swingable inside the housing, a washing and spin-drying tub rotatable inside the water tub, the washing and spin-drying tub being used to wash and spin-dry laundry, a motor that rotates the washing and spin-drying tub, and a motor holder securing the motor externally to a bottom of the water tub. The washing machine according to an example of the present disclosure further includes a control device that is disposed in a rear of the housing and controls the motor, a lead wire connecting the motor and the control device, and a water tub–side attaching unit that is external to the bottom of the

CLAIMS

1. A washing machine comprising:

a housing;

a water tub supported to be swingable inside the housing;

a washing and spin-drying tub rotatable inside the water tub, the washing and spin-drying tub being used to wash and spin-dry laundry;

a motor that rotates the washing and spin-drying tub;

a motor holder securing the motor externally to a bottom of the water tub;

a control device disposed in a rear of the housing and controlling the motor;

a lead wire connecting the motor and the control device;

a water tub-side attaching unit made with a fire-resistive material and disposed externally to the bottom of the water tub, and

a fastening unit fastening the lead wire to the water tub-side attaching unit,

wherein the water tub-side attaching unit includes a fastening side where the fastening unit is disposed, and a shield side that is bent upright from the fastening side, and

the shield side shields a side of the fastening unit which is closer to a center of the water tub, rather than the opposite side of the fastening unit which is away from the center of the water tub.

2. The washing machine according to claim 1, further comprising:

a resin component disposed in a center portion of external bottom of the water tub,

wherein the shield side is disposed between the resin component, and the side of the fastening unit which is closer to the control device.

3. The washing machine according to claim 2, wherein the fastening unit includes cable tie holes formed on the fastening side, and cable ties inserted into the cable tie holes respectively and blinding the lead wire.