DESCRIPTION

WASHING MACHINE

TECHNICAL FIELD

The present disclosure relates to a washing machine including a filter device that filters water.

BACKGROUND ART

PTL 1 discloses a washing machine including a filter device that filters washing water.

FIG. 7 is a cross-sectional view of a filter device of a conventional washing machine described in PTL 1. As illustrated in FIG. 7, filter device 100 includes tubular filter case 150 and filter body 151 housed inside filter case 150. Furthermore, filter body 151 is provided with dense filter portion 151a in which rectangular filter meshes each having a small area are arranged vertically and horizontally and coarse filter portion 151b. Filter device 100 collects foreign matter contained in passing washing water in dense filter portion 151a and coarse filter portion 151b.

Citation List

Patent Literature

PTL 1: Unexamined Japanese Patent Publication No. 2006-255317

SUMMARY

However, the above-described conventional configuration has a problem that it is difficult to remove foreign matter such as lint or hair when the foreign matter such as lint or hair is entangled in a rectangular filter mesh

having a small area.

The present disclosure provides a washing machine that can easily remove foreign matter collected by a filter device that filters water.

A washing machine according to the present disclosure includes a housing, a water tub that is supported by the housing, a drum that is rotatably disposed in the water tub, a drain path that discharges water drained from the water tub to an outside, a filter case that is disposed in a middle of the drain path, and a filter body that is detachably housed inside the filter case and collects foreign matter contained in the water drained. The filter body includes a central portion extending in a longitudinal direction of the filter body, and a plurality of side portions extending in a U-shape with the central portion being as a center, wherein the filter body includes a rib disposed in a longitudinal direction of the central portion, and the rib extends upward. A washing machine according to the present disclosure includes a housing, a water tub that is supported by the housing, a drum that is rotatably disposed in the water tub, a drain path that discharges water drained from the water tub to an outside, a filter case that is disposed in a middle of the drain path, and a filter body that is detachably housed inside the filter case and collects foreign matter contained in the water drained. The filter body includes a central portion extending in a longitudinal direction of the filter body, and a plurality of side portions extending in a U-shape with the central portion being as a center, wherein each of the side portions includes a first columnar member and a second columnar member,

the first columnar member extends from the central portion in a horizontal direction, the second columnar member extends upward from a tip of the first columnar member,

a plurality of the first columnar members and a plurality of the second columnar members are provided, and

the first columnar member is inclined upward as the first columnar member goes away from the central portion.

A washing machine according to the present disclosure can easily remove foreign matter collected by a filter device that filters water.

BRIEF DESCRIPTION OF DRAWINGS

FIG. 1 is an external perspective view of a washing machine according to a first exemplary embodiment of the present invention.

FIG. 2 is a schematic longitudinal sectional view of the washing machine.

FIG. 3A is a perspective view of a case member of the washing machine.

FIG. 3B is a perspective view of a filter member of the washing machine.

FIG. 4A is a side view of the filter member of the washing machine.

FIG. 4B is a top view of the filter member of the washing machine.

FIG. 4C is a cross-sectional view taken along line B-B of FIG. 4B.

FIG. 4D is a cross-sectional view taken along line A-A of FIG. 4B.

CLAIMS

1. A washing machine comprising:

a housing;

a water tub that is supported by the housing;

a drum that is rotatably disposed in the water tub;

a drain path that discharges water drained from the water tub to an outside;

a filter case that is disposed in a middle of the drain path; and

a filter body that is detachably housed inside the filter case and collects foreign matter contained in the water drained,

wherein the filter body includes

a central portion extending in a longitudinal direction of the filter body, and a plurality of side portions each extending in a U-shape with the central portion being as a center;

wherein the filter body includes a rib disposed in a longitudinal direction of the central portion, and the rib extends upward.

2. A washing machine comprising:

a housing;

a water tub that is supported by the housing;

a drum that is rotatably disposed in the water tub;

a drain path that discharges water drained from the water tub to an outside;

a filter case that is disposed in a middle of the drain path; and

a filter body that is detachably housed inside the filter case and collects foreign matter contained in the water drained,

wherein the filter body includes

a central portion extending in a longitudinal direction of the filter body, and a plurality of side portions each extending in a U-shape with the central portion being as a center;

wherein each of the side portions includes a first columnar member and a second columnar member,

the first columnar member extends from the central portion in a horizontal direction,

the second columnar member extends upward from a tip of the first columnar member,

a plurality of the first columnar members and a plurality of the second columnar members are provided, and

the first columnar member is inclined upward as the first columnar member goes away from the central portion.