drum washing machine, scrubbing washing by rubbing with an uneven surface is also performed. As a result, the washing machine power is improved and the washing performance is improved, but there is a problem that clothes are easily damaged especially in a case of delicate clothes such as wool. The present disclosure is to provide a drum washing machine that improves a washing performance while damage to laundry is suppressed, by improvement of a shape of a baffle for agitating the laundry.

In an embodiment, a drum washing machine according to the present disclosure includes a main body, a receiving cylinder that is provided in the main body, a drum that is rotatably supported inside the receiving cylinder and contains laundry, a baffle that is provided on an inner peripheral surface of the drum and agitates the laundry, a controller, and a cloth material detector. The baffle is formed to have a trapezoidal cross section, and includes a first side surface portion and a second side surface portion, the first side surface portion where a plurality of water passage holes communicating with an inner space of the baffle is provided, the second side surface portion faces the first side portion in front view and where unevenness is provided. The cloth material detector detects a cloth material of the laundry put in the drum, wherein the controller sets, in a washing process, a ratio of time of clockwise and counterclockwise rotations of the drum according to the cloth material of the laundry detected by the cloth material detector.

As a result, it is possible to perform washing by a washing method suitable for the laundry according to a type of the laundry.

The drum washing machine of the present disclosure can improve the washing performance while suppressing the damage to the laundry by improvement of the washing machine power.

BRIEF DESCRIPTION OF DRAWINGS

FIG. 1 is a side cross-sectional view of a drum washing machine according to a first exemplary embodiment of the present disclosure.

FIG. 2 is a block circuit diagram of the drum washing machine.

FIG. 3 is a perspective view illustrating a left side surface of a baffle of the

drum washing machine.

CLAIMS

1. A drum washing machine comprising:

a main body;

a receiving cylinder that is provided in the main body;

a drum that is rotatably supported inside the receiving cylinder and contains laundry;

a baffle that is provided on an inner peripheral surface of the drum and agitates the laundry;

a controller,

wherein the baffle is formed to have a trapezoidal cross section, and includes a first side surface portion and a second side surface portion, the first side surface portion where a plurality of water passage holes communicating with an inner space of the baffle is provided, the second side surface portion faces the first side portion in front view and where unevenness is provided; and

a cloth material detector that detects a cloth material of the laundry put in the drum,

wherein the controller sets, in a washing process, a ratio of time of clockwise and counterclockwise rotations of the drum according to the cloth material of the laundry detected by the cloth material detector.

2. The drum washing machine according to claim 1, wherein the baffle includes an upper surface portion where a plurality of water passage holes communicating with the inner space of the baffle is provided.