

WASHING MACHINE

ABSTRACT

5 A front-loading washing machine includes: a rotary tub; a motor (7) configured to drive the rotary tub to rotate; an inverter circuit (24) configured to convert direct current to alternating current to drive the motor (7); and a current detector configured to detect current flowing through the motor (7). The washing machine also includes: a low-pass filter unit (33) configured to
10 perform low-pass filtering on the current detected by the current detector, and output a low-pass filtered value as a processed current value; an overload detector (34) configured to detect an overload state of the motor (7); and a controller (31) configured to transmit a motor drive command to the inverter circuit (24) to control the motor (7) through the inverter circuit (24). The
15 overload detector (34) further determines an overload state of the motor (7) based on the processed current value output from the low-pass filter unit (33), and the controller (31) controls rotational drive of the motor (7) based on a determination result of the overload detector (34).

20 [FIG. 2]