

Title (en)
Washing machine

Title (de)
Waschmaschine

Title (fr)
Machine à laver

Publication
EP 2009169 A2 20081231 (EN)

Application
EP 08157755 A 20080606

Priority
JP 2007167142 A 20070626

Abstract (en)
A washing machine includes a drum (3) arranged to contain a laundry and to rotate, a motor (7) rotating the drum (3), a rotation speed detector (14) detecting a rotation speed of the motor (7), and a controller (31) controlling the motor (7) according to the rotation speed detected by the rotation speed detector (14), the controller (31) detecting an amount of the laundry. The controller (31) is operable to detect a first acceleration of the drum (3) while allowing the motor (7) to generate a predetermined accelerating torque to raise the rotation speed of the drum (3) from a first predetermined rotation speed to a second predetermined rotation speed. The controller (31) is operable to detect a second acceleration of the drum (3) while allowing the motor (7) to generate a predetermined decelerating torque to decrease the rotation speed of the drum (3) from a third predetermined third rotation speed to a fourth predetermined rotation speed. The controller (31) is operable to detect the amount of the laundry according to the first angular acceleration and the second angular acceleration. In the washing machine, the controller (31) can detect the amount of the laundry accurately.

IPC 8 full level
D06F 33/32 (2020.01); **D06F 34/18** (2020.01)

CPC (source: EP US)
D06F 33/32 (2020.02 - EP US); **D06F 34/18** (2020.02 - EP US); **D06F 2101/02** (2020.02 - EP US); **D06F 2101/10** (2020.02 - EP US); **D06F 2105/46** (2020.02 - EP US)

Citation (applicant)
JP H05168786 A 19930702 - MATSUSHITA ELECTRIC IND CO LTD

Cited by
DE102009001271A1; DE102009001112A1; US2021054554A1; CN110552164A; DE102010063338A1; EP3492648A1; EP2264239A1; ITPD20090174A1; US8420957B2; US9096964B2; EP2985382A1; US10793996B2; US9512552B2

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AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA MK RS

DOCDB simple family (publication)
EP 2009169 A2 20081231; **EP 2009169 A3 20141224**; **EP 2009169 B1 20160127**; CN 101333747 A 20081231; CN 101333747 B 20101215; JP 2009005723 A 20090115; JP 4375447 B2 20091202; SI 2009169 T1 20160630; TW 200934911 A 20090816; TW I361236 B 20120401

DOCDB simple family (application)
EP 08157755 A 20080606; CN 200810126105 A 20080626; JP 2007167142 A 20070626; SI 200831604 A 20080606; TW 97119690 A 20080528