Title (en)
  Washing machine

Title (de)
  Waschmaschine

Title (fr)
  Machine à laver

Publication
  EP 2175061 A1 20100414 (EN)

Application
  EP 09156974 A 20090331

Priority
  JP 2008240482 A 20080919

Abstract (en)
  A controller of a washing machine first makes a motor generate a predetermined acceleration torque in the step of detecting quantity of laundry. Then, the controller increases the drum rotation to a predetermined rotating speed. The controller retains the rotation at this predetermined rotating speed for a predetermined time. While the rotation is retained, the controller compares a calculation result output from a displacement calculator with a preset reference value. If the calculation result is smaller than the reference value, the controller detects a state that the washing tub is anchored with respect to the casing.

IPC 8 full level
  D06F 37/20 (2006.01); **D06F 33/48** (2020.01); D06F 33/36 (2020.01); D06F 34/10 (2020.01); D06F 34/16 (2020.01)

CPC (source: EP US)
  D06F 33/48 (2020.02 - EP US); **D06F 39/001** (2013.01 - EP US); D06F 33/36 (2020.02 - EP US); D06F 34/10 (2020.02 - EP US);
  D06F 34/16 (2020.02 - EP US); D06F 2103/04 (2020.02 - EP US); D06F 2103/24 (2020.02 - EP US); D06F 2103/26 (2020.02 - EP US);
  D06F 2105/48 (2020.02 - EP US); D06F 2105/58 (2020.02 - EP US)

Citation (applicant)
  US 6032494 A 20000307 - TANIGAWA MASANOBU [JP], et al

Citation (search report)
  • [A] US 6032494 A 20000307 - TANIGAWA MASANOBU [JP], et al
  • [A] DE 6950556 U 19710527 - SIEMENS ELEKTROGERAETE GMBH [DE]

Cited by
  DE102010001845A1; CN102953255A; DE102011084267A1; EP2508666A1; EP2728051A1; EP2728049A3; US10266980B2; US9528212B2;
  US8863558B2; US9637852B2; WO2015126201A1; WO2013092486A1

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

Designated extension state (EPC)
  AL BA RS

DOCDB simple family (publication)
  EP 2175061 A1 20100414; **EP 2175061 B1 20110223**; AT E499473 T1 20110315; CN 101676470 A 20100324; CN 101676470 B 20111026;
  DE 602009000781 D1 20110407; JP 2010069044 A 20100402; JP 4640476 B2 20110302; RU 2407832 C1 20101227;
  TW 201013002 A 20100401; TW I372804 B 20120921

DOCDB simple family (application)
  EP 09156974 A 20090331; AT 09156974 T 20090331; CN 200910134948 A 20090415; DE 602009000781 T 20090331;
  JP 2008240482 A 20080919; RU 2009134973 A 20090918; TW 98106148 A 20090226