

Title (en)
WASHING MACHINE

Title (de)
WASCHMASCHINE

Title (fr)
MACHINE À LAVER

Publication
EP 3312331 A4 20190109 (EN)

Application
EP 16810971 A 20160614

Priority
• JP 2015122906 A 20150618
• CN 2016085656 W 20160614

Abstract (en)
[origin: EP3312331A1] The object of the present invention is to provide a washing machine capable of detecting that washings in a washing drum are in a state unsuitable for a dewatering process in a phase earlier than the dewatering process. The washing machine (1) includes: a washing drum (4) for accommodating washings (Q); a stirring component (5) configured to face the washings (Q) from a lower side Z2 inside the washing drum (4); a motor (6) for rotating the stirring component (5); and a microcomputer (30) for controlling water supply and drainage for the washing drum (4) or controlling a voltage applied to the motor (6) to rotate the stirring component (5). During a washing process in which the stirring component (5) is rotated in a state that water is stored in the washing drum (4), the microcomputer (30) obtains an index which indicates a size of resistance generated by the washings (Q) in the washing drum (4) to rotation of the stirring component (5). When the index exceeds a specified threshold since the resistance in the washing process is less than a specified resistance, the microcomputer (30) judges that the washings (Q) in the washing drum (4) are in a state unsuitable for the dewatering process.

IPC 8 full level
D06F 33/02 (2006.01)

CPC (source: EP KR US)
D06F 34/14 (2020.02 - EP KR US); **D06F 37/14** (2013.01 - KR); **D06F 37/14** (2013.01 - EP US); **D06F 41/00** (2013.01 - EP US); **D06F 2103/00** (2020.02 - EP US); **D06F 2103/04** (2020.02 - EP KR US); **D06F 2103/18** (2020.02 - EP KR US); **D06F 2103/24** (2020.02 - EP KR US); **D06F 2103/26** (2020.02 - EP KR US); **D06F 2105/02** (2020.02 - EP KR US); **D06F 2105/08** (2020.02 - EP KR US); **D06F 2105/48** (2020.02 - EP KR US); **D06F 2105/58** (2020.02 - EP KR US); **D06F 2105/60** (2020.02 - EP KR US)

Citation (search report)
• [E] EP 3305959 A1 20180411 - AQUA CO LTD [JP], et al
• [X] US 5970555 A 19991026 - BAEK SEUNG MYUN [KR], et al
• [X] JP 2000051579 A 20000222 - SANYO ELECTRIC CO
• [A] US 2005015890 A1 20050127 - KIM TAE-KYOUNG [KR], et al
• See references of WO 2016202230A1

Designated contracting state (EPC)
AL 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 RS SE SI SK SM TR

DOCDB simple family (publication)
EP 3312331 A1 20180425; EP 3312331 A4 20190109; CN 107614779 A 20180119; CN 107614779 B 20200317; JP 2017006249 A 20170112; JP 6594673 B2 20191023; KR 102005302 B1 20190730; KR 20180017179 A 20180220; US 2018187357 A1 20180705; WO 2016202230 A1 20161222

DOCDB simple family (application)
EP 16810971 A 20160614; CN 2016085656 W 20160614; CN 201680028338 A 20160614; JP 2015122906 A 20150618; KR 20187001252 A 20160614; US 201615736505 A 20160614