

Title (en)
WASHING MACHINE

Title (de)
WASCHMASCHINE

Title (fr)
MACHINE À LAVER

Publication
EP 3358066 A4 20190522 (EN)

Application
EP 16850384 A 20160929

Priority
• JP 2015193923 A 20150930
• CN 2016100886 W 20160929

Abstract (en)

[origin: EP3358066A1] A washing machine capable of improving a washing effect with little detergent solution in a structure for accommodating washings in a washing tub having an axis extending longitudinally is provided. The washing machine (1) includes: a washing tub (4) having an axis (J) extending longitudinally; a circulation path (11) configured to draw detergent solution mixed with a detergent in the washing tub (4) and return the detergent solution into the washing tub (4) from an upper side (Z1); a pump (12) configured to pump the detergent solution in the washing tub (4) into the circulation path (11) and allow the detergent solution to rise in the circulation path (11); and a controller (30) configured to execute a washing operation. The washing operation includes a circulation-soaking process during which a circulation process and a soaking process are conducted alternately and repeatedly. The detergent solution is circulated between the washing tub (4) and the circulation path (11) by driving the pump (12) and sprayed onto washings in the circulation process. The pump (12) is stopped from being driven and the washings are soaked with the detergent solution in the washing tub (4) in the soaking process.

IPC 8 full level
D06F 35/00 (2006.01); **D06F 39/08** (2006.01); **D06F 23/04** (2006.01); **D06F 33/02** (2006.01); **D06F 39/02** (2006.01)

CPC (source: EP KR US)

D06F 35/006 (2013.01 - EP KR US); **D06F 37/304** (2013.01 - EP KR US); **D06F 39/028** (2013.01 - KR); **D06F 39/083** (2013.01 - EP US);
D06F 39/085 (2013.01 - EP KR US); **D06F 39/086** (2013.01 - KR); **D06F 39/088** (2013.01 - KR); **D06F 23/04** (2013.01 - EP US);
D06F 39/02 (2013.01 - EP US); **D06F 39/086** (2013.01 - EP US); **D06F 39/087** (2013.01 - EP US); **D06F 39/088** (2013.01 - EP US);
D06F 2103/46 (2020.02 - KR); **D06F 2105/46** (2020.02 - KR)

Citation (search report)

- [XYI] US 2013081431 A1 20130404 - HILL CHRIS H [US], et al
- [Y] DE 3401899 A1 19850725 - LICENTIA GMBH [DE]
- [X] US 2012159717 A1 20120628 - JANG JAE HYUK [KR], et al
- [XI] JP 2009148646 A 20090709 - HITACHI APPLIANCES INC
- [X] WO 2008079070 A1 20080703 - ELECTROLUX AB [SE], et al
- [X] WO 2006071022 A1 20060706 - LG ELECTRONICS INC [KR], et al
- [Y] CN 101818431 A 20100901 - HAIER GROUP CORP, et al
- [Y] JP 2014166594 A 20140911 - HITACHI APPLIANCES INC
- [A] JP H0768082 A 19950314 - SHARP KK
- [A] US 5687440 A 19971118 - MIN TAE-SIK [KR], et al
- See references of WO 2017054760A1

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 3358066 A1 20180808; EP 3358066 A4 20190522; CN 108138428 A 20180608; JP 2017064078 A 20170406; KR 20180057710 A 20180530;
US 2018298538 A1 20181018; WO 2017054760 A1 20170406

DOCDB simple family (application)

EP 16850384 A 20160929; CN 2016100886 W 20160929; CN 201680057008 A 20160929; JP 2015193923 A 20150930;
KR 20187012068 A 20160929; US 201615765182 A 20160929