

Title (en)
Washing machine and control method thereof

Title (de)
Waschmaschine und Steuerungsverfahren dafür

Title (fr)
Machine à laver et son procédé de commande

Publication
EP 2660379 A1 20131106 (EN)

Application
EP 13166422 A 20130503

Priority
• KR 20120046673 A 20120503
• KR 20120112509 A 20121010

Abstract (en)
A washing machine (1) provided with a structure thereof capable of draining and circulating by using a single pump (51) and capable of enhancing washing performance by using a circulation of water and a rotation of a drum (12), and a control method thereof, in which the structure of the washing machine (1) is simplified through the change of the flow path that enables the draining and the circulation of water by using a general pump (51) while decreasing the number of the components of the washing machine (1), the manufacturing cost of the washing machine (1) is reduced, because the washing machine (1) accelerates the dissolution of detergent by generating large amount of bubbles by using the circulation of water and the rotation of the drum (12), without additional components, thereby washing performance of the washing machine (1) is enhanced, and by maintaining the bubbles that are generated, the non-tangible quality that a user feels in the course of washing is enhanced.

IPC 8 full level
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CPC (source: EP US)
D06F 35/002 (2013.01 - EP US); **D06F 35/006** (2013.01 - EP US); **D06F 33/36** (2020.02 - EP US); **D06F 2103/04** (2020.02 - EP US); **D06F 2103/18** (2020.02 - EP US); **D06F 2103/68** (2020.02 - EP US); **D06F 2105/06** (2020.02 - EP US); **D06F 2105/08** (2020.02 - EP US)

Citation (applicant)
• JP 2002336593 A 20021126 - TOSHIBA CORP
• JP 2004267334 A 20040930 - TOSHIBA CORP
• JP H0790077 A 19950404 - DSM NV

Citation (search report)
• [X] EP 2236658 A1 20101006 - SAMSUNG ELECTRONICS CO LTD [KR]
• [A] EP 2447406 A1 20120502 - SAMSUNG ELECTRONICS CO LTD [KR]
• [A] US 2009241267 A1 20091001 - KIM HYUN SOOK [KR], et al

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EP3002356A1; US10640905B2; WO2016050650A1

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

Designated extension state (EPC)
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