

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 2295623 A1 20110316 (EN)

Application
EP 10165821 A 20100614

Priority
KR 20090085295 A 20090910

Abstract (en)
A washing machine (10) and a control method thereof to alleviate high-frequency noise generated during rotation of a motor (29). The washing machine includes a speed sensing unit to sense a speed of the motor, and a control unit to output a speed control signal to adjust the speed of the motor. The control unit confirms whether to enter a constant-speed period upon progress of a dehydration operation, and repeatedly raises or lowers the speed of the universal motor within a predetermined magnitude range if it is confirmed to enter the constant-speed period, thereby alleviating high-frequency noise.

IPC 8 full level
D06F 35/00 (2006.01); **D06F 33/40** (2020.01)

CPC (source: EP KR US)
D06F 33/40 (2020.02 - KR); **D06F 33/48** (2020.02 - KR); **D06F 34/20** (2020.02 - KR); **D06F 35/007** (2013.01 - EP KR US); **D06F 37/22** (2013.01 - KR); **D06F 33/40** (2020.02 - EP US); **D06F 2103/24** (2020.02 - EP KR US)

Citation (search report)
• [X] US 4782544 A 19881108 - NYSTUEN ARNE M [US], et al
• [X] EP 1803846 A1 20070704 - IAR SILTAL SPA [IT]

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 SE SI SK SM TR

Designated extension state (EPC)
BA ME RS

DOCDB simple family (publication)
EP 2295623 A1 20110316; **EP 2295623 B1 20150401**; KR 101407960 B1 20140617; KR 20110027281 A 20110316; US 2011056028 A1 20110310

DOCDB simple family (application)
EP 10165821 A 20100614; KR 20090085295 A 20090910; US 80131010 A 20100602