

Title (en)  
Drum-type washing machine

Title (de)  
Trommelwaschmaschine

Title (fr)  
Machine à laver de type tambour

Publication  
**EP 2113600 A1 20091104 (EN)**

Application  
**EP 09154605 A 20090309**

Priority  
• JP 2008116816 A 20080428  
• JP 2008261455 A 20081008

Abstract (en)  
A controller of a drum-type washing machine controls rotation of a drum by controlling a driver while intermittently operating a circulating pump during a washing operation. While the circulating pump is stopped, the controller controls a drum rotating speed at a speed lower than a drum rotating speed while the circulating pump is operated.

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

CPC (source: EP US)  
**D06F 33/36** (2020.02 - EP US); **D06F 33/48** (2020.02 - EP US); **D06F 34/16** (2020.02 - EP US); **D06F 2103/26** (2020.02 - EP US); **D06F 2105/46** (2020.02 - EP US)

Citation (applicant)  
• US 2004139557 A1 20040722 - SEO HYUN-SEOK [KR], et al  
• JP 2003334396 A 20031125 - HITACHI HOME & LIFE SOLUTIONS  
• US 2002016997 A1 20020214 - JONSSON JOAKIM [SE]

Citation (search report)  
• [X] US 2004139557 A1 20040722 - SEO HYUN-SEOK [KR], et al  
• [A] JP 2003334396 A 20031125 - HITACHI HOME & LIFE SOLUTIONS  
• [A] US 2002016997 A1 20020214 - JONSSON JOAKIM [SE]

Cited by  
EP3073006A1; DE102016212489A1; EP3819503A4; EP3235940A1; EP2423368A1; US11214908B2; EP3505669A1; ITTO20121137A1; EP2746442A1; US11186934B2; US11578446B2

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 2113600 A1 20091104; EP 2113600 B1 20110119**; AT E496160 T1 20110215; CN 101570923 A 20091104; CN 101570923 B 20110413; DE 602009000595 D1 20110303; JP 2009285449 A 20091210; JP 4325736 B1 20090902; RU 2394954 C1 20100720; TW 201002899 A 20100116; TW I367976 B 20120711

DOCDB simple family (application)  
**EP 09154605 A 20090309**; AT 09154605 T 20090309; CN 200910133650 A 20090413; DE 602009000595 T 20090309; JP 2008261455 A 20081008; RU 2009115967 A 20090427; TW 98106153 A 20090226