

Title (en)  
Drum-type washing machine

Title (de)  
Trommelwaschmaschine

Title (fr)  
Machine à laver de type tambour

Publication  
**EP 2423368 A1 20120229 (EN)**

Application  
**EP 11171960 A 20110629**

Priority  
• JP 2010182036 A 20100817  
• JP 2010182037 A 20100817

Abstract (en)  
A drum-type washing machine (50) includes: a housing (1); a water tub (2) elastically supported in the housing; a drum (3) having a cylinder-like shape having a bottom, the drum being rotatably provided in the water tub; a water supply section (8) for supplying washing water into the water tub (2); a water drainage section (17) for draining the washing water in the water tub (2); a motor (7) for driving the drum to rotate; and a control section for controlling the driving of the motor. The control section (24) controls, in a step of washing laundry, the first agitation washing step (T1) of rotating the drum at a low speed so that the laundry can tumble in the drum, a high-speed rotation step (T2) of rotating the drum at a high speed so that the laundry clings to the inner periphery of the drum, and the second agitation washing step (T3) of rotating the drum at a low speed so that the laundry can tumble in the drum. The time during which the first agitation washing step performed firstly is carried out is longer than the time during which the second agitation washing step is carried out and the time during which the high-speed rotation step is carried out at other timings.

IPC 8 full level  
**D06F 35/00** (2006.01); **D06F 33/02** (2006.01)

CPC (source: EP US)  
**D06F 35/006** (2013.01 - EP US)

Citation (applicant)  
• JP H08299658 A 19961119 - TOSHIBA CORP, et al  
• JP H0866578 A 19960312 - SHARP KK

Citation (search report)  
• [AP] US 2010242186 A1 20100930 - KIM WOO YOUNG [KR], et al  
• [A] EP 2113600 A1 20091104 - PANASONIC CORP [JP]  
• [AP] WO 2011025316 A2 20110303 - LG ELECTRONICS INC [KR], et al

Citation (third parties)  
Third party :  
• US 2008134447 A1 20080612 - SCHULZE INGO [DE]  
• JP H0938372 A 19970210 - MATSUSHITA ELECTRIC IND CO LTD & JP H0938372 K1

Cited by  
CN108691156A; CN109440389A; CN108085927A; ITTO20121138A1; EP2746443A1; CN109736046A; ITTO20121137A1; EP2746442A1; AU2013307535B2; US11174582B2; US9903065B2; US9777426B2; WO2018095343A1

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)  
BA ME

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**EP 2423368 A1 20120229; EP 2423368 B1 20160824**; CN 102373602 A 20120314; CN 102373602 B 20130116

DOCDB simple family (application)  
**EP 11171960 A 20110629**; CN 201110232636 A 20110812