

Title (en)  
Drum type washing machine

Title (de)  
Trommelwaschmaschine

Title (fr)  
Machine à laver de type tambour

Publication  
**EP 2103728 A2 20090923 (EN)**

Application  
**EP 09150362 A 20090112**

Priority  
JP 2008063472 A 20080313

Abstract (en)  
A drum type washing machine having a rotary drum installed in a water tank and capable of executing at least one of washing process and rinsing process by driving the rotary drum by a motor, including a water circulation mechanism for circulating the water in the water tank by a circulation pump through a circulation route connected to the water tank, in which the water circulation mechanism has a passage for discharging the circulation water in the rotary drum provided between the wall reverse side of the water tank and the wall surface of the rotary drum, and the circulation water is discharged into the rotary drum from the annular outlet formed between the inner circumferences of the front end walls.

IPC 8 full level  
**D06F 39/08** (2006.01)

CPC (source: EP KR US)  
**D06F 37/04** (2013.01 - KR); **D06F 37/26** (2013.01 - KR); **D06F 39/083** (2013.01 - EP KR US); **D06F 39/12** (2013.01 - KR);  
**D06F 37/42** (2013.01 - EP US)

Citation (applicant)  
• JP H11276791 A 19991012 - SHARP KK  
• JP 2005058741 A 20050310 - LG ELECTRONICS INC  
• JP 2006223572 A 20060831 - TOSHIBA CORP, et al  
• JP 2006239142 A 20060914 - SHARP KK

Cited by  
WO2011078613A3

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 2103728 A2 20090923**; **EP 2103728 A3 20110914**; **EP 2103728 B1 20130320**; CN 101532232 A 20090916; CN 101532232 B 20111221; CN 201372374 Y 20091230; JP 2009213801 A 20090924; JP 4331243 B1 20090916; KR 101066282 B1 20110920; KR 20090098673 A 20090917; TW 201002902 A 20100116; TW I367978 B 20120711

DOCDB simple family (application)  
**EP 09150362 A 20090112**; CN 200910128405 A 20090312; CN 200920006441 U 20090312; JP 2008063472 A 20080313; KR 20090011832 A 20090213; TW 98105768 A 20090224