

Title (en)  
Drum type washing machine

Title (de)  
Trommelwaschmaschine

Title (fr)  
Machine à laver de type tambour

Publication  
**EP 2151518 A3 20131016 (EN)**

Application  
**EP 09158891 A 20090428**

Priority  
JP 2008200783 A 20080804

Abstract (en)  
[origin: EP2151518A2] A drum type washing machine includes a rotatable drum adapted to store a laundry, a drain valve, a drain pump, a controller, and a filter unit. The filter unit includes a filter case provided between the drain valve and the drain pump, a filter accommodated in the filter case, a cap for sealing a fixing opening, and a reed switch. The reed switch is activated to outputs an activation signal to the controller when the cap is located at the predetermined position, and deactivated to output a deactivation signal to the controller when the cap is not at the predetermined position. The controller is operable to, when determining that the reed switch outputs the deactivation signal while executing a process out of the washing process and the rinsing process, stop the process. The controller is operable to, when determining that the reed switch outputs the deactivation signal while executing the draining process, stop the draining process, close the drain valve, and drive the drain pump. This washing machine prevents washing water from leaking and safely washes the laundry even when the filter is opened during the washing process, the rinsing process, and the draining process.

IPC 8 full level  
**D06F 39/10** (2006.01); **D06F 39/08** (2006.01)

CPC (source: EP US)  
**D06F 39/08** (2013.01 - EP US); **D06F 39/10** (2013.01 - EP US)

Citation (search report)  
• [A] WO 2005118939 A1 20051215 - LG ELECTRONICS INC [KR], et al  
• [A] JP 2006271891 A 20061012 - SHARP KK

Cited by  
ES2462873R1; US2022008845A1

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

DOCDB simple family (publication)  
**EP 2151518 A2 20100210; EP 2151518 A3 20131016; EP 2151518 B1 20140910**; CN 101643991 A 20100210; CN 101643991 B 20120523; JP 2010035748 A 20100218; JP 4737245 B2 20110727; RU 2407834 C1 20101227

DOCDB simple family (application)  
**EP 09158891 A 20090428**; CN 200910159037 A 20090804; JP 2008200783 A 20080804; RU 2009124705 A 20090629