

Title (en)
Washing machine

Title (de)
Waschmaschine

Title (fr)
Machine à laver

Publication
EP 2537971 A3 20130320 (EN)

Application
EP 12158968 A 20120312

Priority
KR 20110042168 A 20110503

Abstract (en)
[origin: US2012279261A1] A washing machine that senses whether a door is opened or closed, vibration of a washing tub or weight of the washing tub. The washing machine includes an optical sensor mounted at a predetermined position in the washing machine and a controller to analyze an output value of the optical sensor to determine whether a door is opened or closed, vibration of a washing tub or weight of the washing tub. Whether the door is opened or closed, vibration of the washing tub or weight of the washing tub may be determined using a single infrared sensor in a noncontact manner.

IPC 8 full level
D06F 34/20 (2020.01); **D06F 39/14** (2006.01); **D06F 33/32** (2020.01)

CPC (source: EP KR US)
D06F 34/20 (2020.02 - EP KR US); **D06F 33/32** (2020.02 - EP KR US); **D06F 39/14** (2013.01 - EP KR US)

Citation (search report)

- [A] KR 960006906 B1 19960525 - LG ELECTRONICS INC [KR]
- [A] JP 2005278778 A 20051013 - SANKYO SEIKI SEISAKUSHO KK
- [A] EP 1992728 A2 20081119 - INDESIT CO SPA [IT]
- [A] DE 102006038111 B3 20070906 - MIELE & CIE [DE]

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

DOCDB simple family (publication)
US 2012279261 A1 20121108; EP 2537971 A2 20121226; EP 2537971 A3 20130320; KR 20120124326 A 20121113

DOCDB simple family (application)
US 201213415357 A 20120308; EP 12158968 A 20120312; KR 20110042168 A 20110503