

Title (en)
Washing machine

Title (de)
Waschmaschine

Title (fr)
Machine à laver

Publication
EP 2537971 A2 20121226 (EN)

Application
EP 12158968 A 20120312

Priority
KR 20110042168 A 20110503

Abstract (en)
A washing machine (5) that senses whether its door (3) is opened or closed, as well as the vibrations of the washing tub (1), said washing machine (5) includes an optical sensor (30) mounted at a predetermined position in the washing machine (5) and a controller to analyze an output value of the optical sensor (30) to determine whether the door (3) is opened or closed and the vibrations or weight of the washing tub (1); whether the door (3) is opened or closed as well as the vibrations or weight of the washing tub (1) may be determined using a single infrared sensor (30) 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)

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