Title (en)
Method and apparatus for determining an imbalance condition in an appliance

Title (de)
Verfahren und Vorrichtung zur Bestimmung eines Unwuchtzustands in einer Vorrichtung

Title (fr)
Procédé et appareil pour déterminer une condition de balourd d'un appareil

Publication
EP 2053151 A2 20090429 (EN)

Application
EP 08166863 A 20081017

Priority
US 87783007 A 20071024

Abstract (en)
An appliance and method is provided that can determine load imbalance or out-of-balance conditions. The appliances that typically apply load imbalance detection are clothes washers. A method of imbalance detection includes identifying parameter values that fluctuate with load imbalance over a predetermined sample period (201) and determining a target parameter value from the identified parameter values (202). The method further includes calculating a parameter spread of the parameter values by comparing parameter values to the target parameter value (203). The method further includes converting the parameter spread into a weight value that reflects an imbalance condition.

IPC 8 full level
D06F 35/00 (2006.01); **D06F 37/20** (2006.01)

CPC (source: EP US)
D06F 34/16 (2020.02 - EP US); D06F 33/48 (2020.02 - EP US); D06F 2103/04 (2020.02 - EP US); D06F 2103/26 (2020.02 - EP US); D06F 2103/46 (2020.02 - EP US)

Citation (applicant)
US 6640374 B1 20031104 - COURTNEY MICHAEL HAROLD [US], et al

Cited by
US11225746B2; US11739460B2

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 MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA MK RS

DOCDB simple family (publication)
EP 2053151 A2 20090429; CA 2640828 A1 20090424; CN 101419112 A 20090429; MX 2008013655 A 20090512; US 2009107185 A1 20090430

DOCDB simple family (application)
EP 08166863 A 20081017; CA 2640828 A 20081009; CN 200810149999 A 20081024; MX 2008013655 A 20081023; US 87783007 A 20071024