

Title (en)

Method for maximizing drum rotational speed by continuously monitoring inertia during extraction

Title (de)

Verfahren zur Maximierung der Trommeldrehzahl durch ununterbrochene Überwachung der Trägheit während der Extraktion

Title (fr)

Procédé permettant de maximiser la vitesse de rotation de tambour par la surveillance continue d'inertie lors de l'extraction

Publication

EP 2607542 A3 20150610 (EN)

Application

EP 12197541 A 20121217

Priority

- US 201161578925 P 20111222
- US 201213633200 A 20121002

Abstract (en)

[origin: EP2607542A2] A laundry treating appliance (10) may have a rotatable drum (16) defining a treating chamber (18) for receiving a laundry load, a motor (88) rotatably driving the drum (16), and a controller (96) controlling the operation of the motor (88). The laundry treating appliance (10) may be operated by accelerating the drum (16) with the motor (88) toward a final speed greater than a satellizing speed, determining a mass value indicative of the mass of the rotating drum (16) and contents within the treating chamber (18) during the accelerating, determining a current rotational speed during the acceleration, calculating a force value indicative of a force acting on the drum based on the determined mass value and the current rotational speed, comparing the force value to a reference force value, and repeating the determining, calculating, and comparing during the acceleration, and ceasing the accelerating when the force value obtains a predetermined relationship with the reference force value.

IPC 8 full level

D06F 39/00 (2006.01); **D06F 33/02** (2006.01); **D06F 37/20** (2006.01)

CPC (source: EP US)

D06F 33/48 (2020.02 - EP US); **D06F 2103/04** (2020.02 - EP US); **D06F 2103/24** (2020.02 - EP US); **D06F 2105/46** (2020.02 - EP US)

Citation (search report)

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- [XI] DE 10305675 B3 20040527 - DIEHL AKO STIFTUNG GMBH & CO [DE]
- [I] US 2005204482 A1 20050922 - MURRAY PETER [GB], et al
- [A] WO 2005085511 A1 20050915 - ARCELIK AS [TR], et al
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Cited by

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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)

EP 2607542 A2 20130626; EP 2607542 A3 20150610; EP 2607542 B1 20160518; PL 2607542 T3 20160930; US 2013160221 A1 20130627

DOCDB simple family (application)

EP 12197541 A 20121217; PL 12197541 T 20121217; US 201213633200 A 20121002