

Title (en)

METHOD TO ESTIMATE A LOAD BEHAVIOR IN A LAUNDRY TREATMENT MACHINE

Title (de)

VERFAHREN ZUR SCHÄTZUNG EINES LASTVERHALTENS IN EINER WÄSCHEBEHANDLUNGSMASCHINE

Title (fr)

PROCÉDÉ D'ESTIMATION DE COMPORTEMENT D'UNE CHARGE DANS UNE MACHINE DE TRAITEMENT DE LINGE

Publication

**EP 4036300 A1 20220803 (EN)**

Application

**EP 22164092 A 20200302**

Priority

- EP 22164092 A 20200302
- EP 20160332 A 20200302

Abstract (en)

A method to estimate a load behavior in a laundry treatment machine comprises the step of determining an inertia ( $J_{t}$ ,  $J_{L}$ ) and/or a load torque caused by a load depending on a first torque signal  $Tem^*1$ , a second torque signal  $Tem^*2$ , a derivative  $\omega'^1$  of a first angular speed signal and a derivative  $\omega'^2$  of a second angular speed signal. These signals are based on a first operation and a second operation of the laundry treatment machine, wherein a controller of the laundry treatment machine is operated with different controller parameters ( $P_1$ ,  $P_2$ ). The method enables to estimate the load behavior in an easy, reliable and accurate manner.

IPC 8 full level

**D06F 33/76** (2020.01); **D06F 34/16** (2020.01); **D06F 58/52** (2020.01); **D06F 103/24** (2020.01); **D06F 103/46** (2020.01); **D06F 105/48** (2020.01); **D06F 105/52** (2020.01); **D06F 105/62** (2020.01)

CPC (source: EP)

**D06F 33/76** (2020.02); **D06F 34/16** (2020.02); **D06F 58/52** (2020.02); **D06F 2103/24** (2020.02); **D06F 2103/46** (2020.02); **D06F 2105/48** (2020.02); **D06F 2105/52** (2020.02); **D06F 2105/62** (2020.02)

Citation (applicant)

US 2005204482 A1 20050922 - MURRAY PETER [GB], et al

Citation (search report)

- [XI] EP 2607535 A2 20130626 - WHIRLPOOL CO [US]
- [X] US 2019112745 A1 20190418 - CHAI SHAN [NZ]
- [A] DE 102008055091 A1 20100624 - BSH BOSCH SIEMENS HAUSGERAETE [DE]

Designated contracting state (EPC)

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BA ME

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**EP 3875661 A1 20210908**; **EP 3875661 B1 20220427**; EP 4036300 A1 20220803; ES 2920484 T3 20220804; PL 3875661 T3 20220816

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**EP 20160332 A 20200302**; EP 22164092 A 20200302; ES 20160332 T 20200302; PL 20160332 T 20200302