

Title (en)

METHOD FOR NATURAL FREQUENCY DETECTION IN A DRUM WASHING MACHINE

Title (de)

VERFAHREN ZUR EIGENFREQUENZERFASSUNG IN EINER TROMMELWASCHMASCHINE

Title (fr)

PROCEDE DE DETECTION DE LA FREQUENCE NATURELLE DANS UNE MACHINE A LAVER A TAMBOUR

Publication

EP 3819417 A1 20210512 (EN)

Application

EP 20206599 A 20201110

Priority

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Abstract (en)

The proposed invention relates to a method for detecting the natural vibration frequencies in the body (4) of a laundry washing machine while it is in operation with regard to the quality of its placement and the base on which it is placed. The method comprises an active system for detecting the transfer of force to the base, which enables the simultaneous detection of the eccentric and dynamic load in the drum and the identification of the dynamic properties of the washing machine. By controlling the rotational frequency of the washing machine drum, it is possible to actively adjust the washing cycle according to the loads in the drum and the dynamic properties of the washing machine. According to the proposed invention, at least one calibration is anticipated at the user's place of installation of the washing machine, which is used to identify the dynamic properties of the entire washing machine-base system.

IPC 8 full level

D06F 34/16 (2020.01); **D06F 103/26** (2020.01); **D06F 105/48** (2020.01); **D06F 105/52** (2020.01); **D06F 105/58** (2020.01)

CPC (source: EP)

D06F 34/16 (2020.02); **D06F 2103/26** (2020.02); **D06F 2105/48** (2020.02); **D06F 2105/52** (2020.02); **D06F 2105/58** (2020.02)

Citation (applicant)

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- WO 2014004328 A1 20140103 - ILLINOIS TOOL WORKS [US]
- DE 102015106849 A1 20161110 - MIELE & CIE [DE]

Citation (search report)

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Designated contracting state (EPC)

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