

Title (en)

Method for determining total inertia and unbalanced load in a laundry drum of a washing machine

Title (de)

Verfahren zum Bestimmen der gesamten Trägheit und der Unwucht in der Trommel einer Wäschewaschmaschine

Title (fr)

Procédé pour déterminer l'inertie totale et le balourd dans le tambour d'une machine à laver le linge

Publication

EP 1113102 B1 20030709 (EN)

Application

EP 99126056 A 19991228

Priority

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Abstract (en)

[origin: EP1113102A1] For determining the amount of unbalanced load in the drum of a washing machine and, at the same time the amount of the total load in the drum, the motor drive system is supplied with an auxiliary periodic signal of known frequency, such frequency being different from the frequency corresponding to the target speed of the motor. By analysing the frequency response of the controlled variable (i.e. the speed of the motor) at a frequency corresponding to the target speed and at a frequency corresponding to the auxiliary signal, it is possible to determine the unbalance load and the total load respectively. <IMAGE>

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IPC 8 full level

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CPC (source: EP US)

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Cited by

EP2148430A1; US8932369B2; EP2050856A1; US8918936B2; US8186227B2; US7739765B2; US8875332B2; WO2009049825A1; WO2008053002A3; WO03046271A1

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