

Title (en)

METHOD AND CIRCUIT ARRANGEMENT FOR DETERMINING THE LOAD AND/OR UNBALANCE OF A LAUNDRY DRUM OF A WASHING MACHINE

Title (de)

VERFAHREN UND SCHALTUNGSANORDNUNG ZUM ERMITTELN DER BELADUNG UND/ODER DER UNWUCHT EINER WÄSCHETROMMEL EINER WASCHMASCHINE

Title (fr)

PROCÉDÉ ET CIRCUIT POUR DÉTERMINER LE CHARGEMENT ET/OU LE BALOURD D'UN TAMBOUR DE LAVE-LINGE

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Application

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Abstract (en)

[origin: WO2010100030A1] The invention relates to a method for obtaining information about the load and/or about the unbalance of a laundry drum of a washing machine, wherein the laundry drum is driven by an electric motor (9), the stator of which comprises at least one winding (W, V, U) that is coupled to a power inverter (8) controlled by a control unit (7). The laundry drum is accelerated to a predetermined rotational speed and is then slowed down. During the slowing down of the laundry drum, an electric current (I_w, I_v, I_u) flowing over the at least one winding (W, V, U) of the stator and/or an electric intermediate circuit voltage are measured. Furthermore, the curve of the electric power supplied by the electric motor during generator operation is evaluated for the duration of a revolution of the laundry drum. The unbalance and/or the load is concluded depending on the measured values for the current (I_w, I_v, I_u) and/or for the intermediate circuit voltage and depending on the evaluated power. The invention further relates to a corresponding circuit arrangement (1) and to a washing machine having a circuit arrangement (1).

IPC 8 full level

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