

Title (en)

Arrangement for measuring and balancing out-of-balance washloads in the drum of washing machines.

Title (de)

Vorrichtung zum Erfassen und Ausgleichen von Unwuchten in der Trommel von Waschmaschinen.

Title (fr)

Dispositif pour mesurer et corriger le balourd dans le tambour des machines à laver.

Publication

EP 0507138 A1 19921007 (EN)

Application

EP 92104458 A 19920316

Priority

IT PN910020 A 19910403

Abstract (en)

Electronic arrangement for measuring and balancing out-of-balance washloads in the rotating drum of washing machines, as they may be caused to occur by an uneven distribution of the clothes in the drum when it rotates at its wash and spin-extraction speeds. Arrangement that measures the active power input to the drum driving motor (1), said active power input being in a proportional relationship with the mechanical stresses that are being placed on the drum itself, and that compares, in a comparator circuit (27), the value of said measured active power input with a pre-determined value of a reference power corresponding to the active power input to the drive motor (1) at the moment when the out-of-balance condition of the washload in the rotating drum starts occurring. As a result of this comparison, said comparator circuit (27) will either allow the drum driving motor (1) to run regularly, if no such out-of-balance condition is detected, or changes the rotational speed of said drum driving motor (1) in the case that said out-of-balance condition is on the contrary detected, and keeps varying the motor's rpm parameter until the washload actually manages to get evenly redistributed in the rotating drum and the out-of-balance condition is therefore removed. <IMAGE>

IPC 1-7

D06F 37/20

IPC 8 full level

D06F 37/20 (2006.01)

CPC (source: EP US)

D06F 33/48 (2020.02 - EP US); **D06F 34/08** (2020.02 - EP US); **D06F 2103/26** (2020.02 - EP US); **D06F 2103/46** (2020.02 - EP US)

Citation (search report)

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- [A] US 2917175 A 19591215 - TOMA JOHN W

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Designated contracting state (EPC)

DE ES FR GB IT

DOCDB simple family (publication)

EP 0507138 A1 19921007; IT 1250383 B 19950407; IT PN910020 A0 19910403; IT PN910020 A1 19921004

DOCDB simple family (application)

EP 92104458 A 19920316; IT PN910020 A 19910403