

Title (en)
Improvement in a washing machine with automatic determination of the weight of the wash load

Title (de)
Waschmaschine mit automatischer Bestimmung des Wäschegewichtes

Title (fr)
Machine à laver avec détermination automatique du poids du linge

Publication
EP 0704568 B1 19981230 (EN)

Application
EP 95112646 A 19950811

Priority
IT PN940058 A 19940928

Abstract (en)
[origin: EP0704568A1] Clothes washing machine comprising a washing tub (1), a drum (2) rotatably arranged inside said washing tub and adapted to accomodate the washload (3), and an electric motor (4) adapted to rotatably drive said drum at differentiated rotational speeds, wherein at the beginning of the washing cycle the drum is driven so as to rotate at a progressively increasing speed until a first pre-set speed (Vs) is reached. Said first pre-set speed is then maintained during a first pre-set period of time (T1), whereupon the power supply to said electric motor (4) is cut off, the drum is allowed to rotate by the force of inertia for a second pre-set period of time (T2), means being provided which are adapted to calculate the weight of the washload out of said detected process parameters. During said first period of time (T1), in which the drum rotates under steady-state conditions, the pull-in torque of said motor is measured, whereas the instantaneous rotational speed of the drum (Vr) is detected at the end of said pre-set period of time in which the drum is allowed to rotate by the force of inertia. <IMAGE>

IPC 1-7
D06F 39/00

IPC 8 full level
D06F 33/02 (2006.01); **D06F 39/00** (2006.01); **G01G 19/52** (2006.01)

CPC (source: EP US)
D06F 34/18 (2020.02 - EP US); **D06F 2103/04** (2020.02 - EP US); **D06F 2103/24** (2020.02 - EP US); **D06F 2105/48** (2020.02 - EP US)

Cited by
EP2090870A3; EP1428925A1; GB2303641B; ITPN20080073A1; US9863080B2; US9890490B2; US8914930B2; US9873968B2; WO2008053002A3; WO2017144085A1; WO2005085511A1; WO2004081276A1; US8631527B2; US10988883B2; US10041202B2; US10301762B2; US9988753B2; US10087565B2; US7299515B2; US8166590B2; US9885135B2; US9988751B2; US10273621B2; US10669663B2; US11486074B2; US11739466B2

Designated contracting state (EPC)
DE ES FR GB IT

DOCDB simple family (publication)
EP 0704568 A1 19960403; EP 0704568 B1 19981230; DE 69506981 D1 19990211; DE 69506981 T2 19990805; ES 2129162 T3 19990601; IT 1267587 B1 19970207; IT PN940058 A0 19940928; IT PN940058 A1 19960328; JP 3737170 B2 20060118; JP H08107990 A 19960430

DOCDB simple family (application)
EP 95112646 A 19950811; DE 69506981 T 19950811; ES 95112646 T 19950811; IT PN940058 A 19940928; JP 25152395 A 19950928