

Title (en)

WETTING PROCESS FOR THE LAUNDRY INSIDE A PROGRAM-CONTROLLED WASHING MACHINE, AND WASHING MACHINE

Title (de)

BENETZUNGSPROZESS FÜR DIE WÄSCHE IN EINER PROGRAMMGESTEUERTEN WASCHMASCHINE, UND WASCHMASCHINE

Title (fr)

PROCESSUS DE MOUILLAGE DU LINGE DANS UN LAVE-LINGE COMMANDE PAR PROGRAMME, ET LAVE-LINGE

Publication

EP 1861537 B1 20181121 (DE)

Application

EP 06700736 A 20060103

Priority

- EP 2006050010 W 20060103
- DE 102005012426 A 20050317

Abstract (en)

[origin: WO2006097362A1] The invention relates to a wetting process for the laundry (7) inside a program-controlled washing machine that can be adjusted to the amount of laundry in a washing drum (2), which is mounted inside a washing machine tub (1) in a manner that enables it to rotate about a non-vertical axis (3), by means of a water supply system (8 to 11) and of a control device (12), via which the supply of water into the washing machine tub (1) can be controlled in a temporal manner. In addition, the wetting process starts in a first phase (Ph1) with a supply of a first metered amount of water into the washing machine tub (1) when the washing drum (2) is stationary or continuously rotating. The aim of the invention is to provide a wetting process of the aforementioned type that is optimized with regard to completeness, uniformity, and reproducibility. To this end, the washing drum (2) rotates in the first phase (PM) at least in a continual manner with the supply of water until an at least approximate agreement between the set and actual quantity of water inside the washing machine tub (1) occurs based on the measurement signals of a water level sensor (15), and it rotates in a second phase (Ph2) at least in an essentially continual manner. Water is additionally supplied until the level in the washing machine tub (1) has reached a certain water level during filling and subsequent absorption based on the signal progression of the water level sensor (15) identified in the first phase (Ph1) with regard to the maximum height and rate of change of the water level (N) and with regard to falling back due to subsequent absorption of water by the laundry (7), or based on a signal progression of the water level sensor (15) identified by an expert system within the second phase (Ph2). This enables the wetting process with the number and formation of individual phases to be adjusted to the amount and the specific absorbency of the laundry (7) to be washed.

IPC 8 full level

D06F 39/08 (2006.01); **D06F 35/00** (2006.01)

CPC (source: EP US)

D06F 39/088 (2013.01 - EP US); **D06F 39/087** (2013.01 - EP US); **D06F 2103/18** (2020.02 - EP US)

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

DE 102005012426 A1 20060921; CN 101142356 A 20080312; CN 101142356 B 20100929; EP 1861537 A1 20071205; EP 1861537 B1 20181121; ES 2702345 T3 20190228; US 2008189875 A1 20080814; WO 2006097362 A1 20060921

DOCDB simple family (application)

DE 102005012426 A 20050317; CN 200680008663 A 20060103; EP 06700736 A 20060103; EP 2006050010 W 20060103; ES 06700736 T 20060103; US 88640406 A 20060103