

Title (en)

Drying control method for washing machines with drying functions/drying machines

Title (de)

Trocknungssteuerverfahren für eine Waschmaschine mit Wäschetrocknungsfunktionen/Wäschetrockner

Title (fr)

Procédé de commande du séchage du linge dans un machine à laver avec une fonction de séchage/ sèche-linge

Publication

EP 1657351 A3 20090121 (EN)

Application

EP 05001445 A 20050125

Priority

KR 20040092561 A 20041112

Abstract (en)

[origin: EP1657351A2] A drying control method for washing machines with drying functions/drying machines comprises an air temperature-measuring step of heating air passing through a heater duct (110) by means of a heater (103) during a drying operation of the washing machine with drying function or the drying machine, and measuring at least one of the temperature (Tin) of air before being heated and the temperature (Tout) of air after being heated about the heater (103), a load-calculating step of calculating total load, the sum of the amount of laundry and moisture content contained in the laundry, using a ratio of the change in temperature to the change in time at a specific section while the temperature (Tin or Tout) of the air is measured at the air temperature-measuring step, a moisture content-calculating step of calculating the moisture content contained in the laundry using a ratio of the change in temperature to the change in time at another specific section next to the specific section of the load-calculating step, and a drying operation-controlling step of controlling the drying operation of the washing machine with drying function or the drying machine according to the total load and the moisture content calculated at the load-calculating step and moisture content-calculating step. According to the drying control method, it is possible to more accurately estimate drying time using moisture content contained in the laundry and more efficiently control the drying operation corresponding to various load conditions.

IPC 8 full level

D06F 58/28 (2006.01)

CPC (source: EP US)

D06F 58/38 (2020.02 - EP US); **D06F 25/00** (2013.01 - EP US); **D06F 2103/02** (2020.02 - EP US); **D06F 2103/04** (2020.02 - EP US); **D06F 2103/08** (2020.02 - EP US); **D06F 2103/32** (2020.02 - EP US); **D06F 2103/38** (2020.02 - EP US); **D06F 2103/58** (2020.02 - EP US); **D06F 2105/52** (2020.02 - EP US)

Citation (search report)

[A] EP 0573703 A1 19931215 - WHIRLPOOL EUROP [NL]

Cited by

CN103732823A; AU2010283087B2; US9695547B2; WO2011019207A3; WO2013000904A1

Designated contracting state (EPC)

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Designated extension state (EPC)

AL BA HR LV MK YU

DOCDB simple family (publication)

EP 1657351 A2 20060517; **EP 1657351 A3 20090121**; CN 1773006 A 20060517; KR 100748963 B1 20070813; KR 20060046995 A 20060518; US 2006101587 A1 20060518

DOCDB simple family (application)

EP 05001445 A 20050125; CN 200510053132 A 20050304; KR 20040092561 A 20041112; US 3216805 A 20050111