

Title (en)

METHOD FOR THE LOAD-DEPENDENT OPERATION OF A DRYER AND DRYER SUITABLE THEREFOR

Title (de)

VERFAHREN ZUM BELADUNGSABHÄNGIGEN BETRIEB EINES TROCKNERS SOWIE HIERZU GEEIGNETER TROCKNER

Title (fr)

PROCÉDÉ PERMETTANT DE FAIRE FONCTIONNER UN SÈCHE-LINGE EN FONCTION DE LA CHARGE ET SÈCHE-LINGE PERMETTANT LA MISE EN OEUVRE DUDIT PROCÉDÉ

Publication

**EP 2847375 A2 20150318 (DE)**

Application

**EP 13719877 A 20130503**

Priority

- DE 102012207740 A 20120509
- EP 2013059258 W 20130503

Abstract (en)

[origin: WO2013167489A2] The invention relates to a method for operating a dryer (1) comprising a drum (2) for pieces of laundry (5) to be dried, a moisture sensor (7), an electric, variable-speed drive motor (12) for the drum (2), a control unit (11) and a process air duct (3) in which a heating unit (4) and a process air blower (6) are located, said method comprising the steps: (a) determining a load  $L_{init}$  of the drum (2) at the start of loading; (b) operating the drive motor (12) at a speed  $v$  in a range  $v_1 \leq v \leq v_2$ ; (c) producing hot process air by operating the heating unit (4) and the process air blower (6) and rotating the drum (2) at a speed  $\dot{u}$ , wherein  $\dot{u}_1 < \dot{u} < \dot{u}_2$ , and passing said air through the drum (2); (d) measuring a moisture  $W$  of the pieces of laundry (5) by means of the moisture sensor (7); (e) determining a load  $LW_u$  of the drum (2) when a moisture  $W$  smaller or equal a predetermined threshold value  $W_u$  is reached; (f) determining the dry weight  $W_{dry}$  of the pieces of laundry (5) once it is established that the load  $L$  is within a range defined by a minimum load  $L_{min}$  and a maximum load  $L_{max}$ , such that  $L_{min} \leq L \leq L_{max}$ ; and (g) increasing the speed  $v$  of the drive motor (12) and the speed  $\dot{u}$  of the drum (2) depending on the determined dry weight  $W_{dry}$  and the moisture  $W$ . The invention further relates to a dryer suitable for performing said method.

IPC 8 full level

**D06F 58/38** (2020.01)

CPC (source: EP US)

**D06F 58/38** (2020.02 - EP US); **D06F 2103/02** (2020.02 - EP US); **D06F 2103/04** (2020.02 - EP US); **D06F 2103/06** (2020.02 - EP US); **D06F 2103/08** (2020.02 - EP US); **D06F 2103/34** (2020.02 - EP US); **D06F 2103/36** (2020.02 - EP US); **D06F 2103/44** (2020.02 - EP US); **D06F 2103/46** (2020.02 - EP US); **D06F 2105/24** (2020.02 - EP US); **D06F 2105/30** (2020.02 - EP US); **D06F 2105/46** (2020.02 - EP US); **D06F 2105/48** (2020.02 - EP US)

Citation (search report)

See references of WO 2013167489A2

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

**WO 2013167489 A2 20131114**; **WO 2013167489 A3 20140522**; DE 102012207740 A1 20131114; EP 2847375 A2 20150318; EP 2847375 B1 20160420

DOCDB simple family (application)

**EP 2013059258 W 20130503**; DE 102012207740 A 20120509; EP 13719877 A 20130503