

Title (en)

Laundry washing-drying machine and washing-drying cycle

Title (de)

Wasch- und Trockenmaschine sowie Wasch- und Trockenzklus für Wäsche

Title (fr)

Machine à laver et à sécher le linge de lessive et cycle de lavage-séchage

Publication

EP 3020858 A1 20160518 (EN)

Application

EP 14193107 A 20141113

Priority

EP 14193107 A 20141113

Abstract (en)

The present invention relates to a laundry washing-drying machine comprising: a washing tub containing a rotatable drum adapted to receive laundry; a water supply circuit to supply water into said washing tub; a washing product supplier to supply a washing products into said washing tub; a drain circuit provided with a drain pump which activation causes liquid to be drained from said washing tub; and a control unit configured for making said laundry washing-drying machine to perform a washing-drying cycle. Such a washing-drying cycle comprises the following phases: a) a wetting phase in which clean water and washing detergent are admitted into said washing tub; b) a main washing phase during which said rotatable drum is rotated at speed causing the laundry to tumble inside said rotatable drum; c) a first drain phase in which said drain pump is activated for draining liquid from said washing tub; d) a rinsing phase comprising two or more rinsing cycles wherein clean rinse water is first added to the laundry, said rotatable drum is rotated at speed causing the laundry to tumble inside said rotatable drum, and then said drain pump is activated for draining rinse water from said washing tub, e) a final spin phase during which said rotatable drum is rotated at a speed above a threshold speed value at which the laundry sticks to the lateral surface of the rotatable drum, so as to squeeze said laundry and extract water from the latter, and said drain pump is activated for draining liquid from said washing tub; f) a hot-air drying phase during which hot air is circulated into said rotatable drum so that it passes through the laundry, removing moisture from the latter. Between the end of the main washing phase b) and the second of the two or more rinsing cycles of the rinsing phase d), the speed of the drum is kept below the threshold speed value at which the laundry sticks to the lateral surface of the rotatable drum.

IPC 8 full level

D06F 25/00 (2006.01); **D06F 33/32** (2020.01); **D06F 34/28** (2020.01)

CPC (source: EP US)

D06F 25/00 (2013.01 - EP US); **D06F 33/32** (2020.02 - EP US); **D06F 34/28** (2020.02 - EP US); **D06F 35/005** (2013.01 - EP US); **D06F 2103/18** (2020.02 - EP US); **D06F 2103/30** (2020.02 - EP US); **D06F 2105/02** (2020.02 - EP US); **D06F 2105/08** (2020.02 - EP US); **D06F 2105/10** (2020.02 - EP US)

Citation (search report)

- [XAI] EP 1967632 A2 20080910 - SAMSUNG ELECTRONICS CO LTD [KR]
- [A] DE 102008027808 A1 20090625 - MIELE & CIE [DE]

Cited by

CN109811504A; WO2022021652A1

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)

EP 3020858 A1 20160518; **EP 3020858 B1 20220504**; PL 3020858 T3 20220829; WO 2016075162 A1 20160519

DOCDB simple family (application)

EP 14193107 A 20141113; EP 2015076250 W 20151110; PL 14193107 T 20141113