

Title (en)

CLOTHES DRYING APPARATUS WITH HEAT PUMP

Title (de)

WÄSCHETROCKNUNGSVORRICHTUNG MIT WÄRMEPUMPE

Title (fr)

SÈCHE-LINGE À POMPE À CHALEUR

Publication

EP 3533920 A1 20190904 (EN)

Application

EP 19156133 A 20190208

Priority

ES 201830209 A 20180302

Abstract (en)

A clothes drying apparatus (1) comprises a heat pump (11) including a compressor (12), a condenser (9), an expansion means (13), and an evaporator (6) connected by fluid conduits (14-17) carrying working fluid (F) and comprises a control unit (18) connected to the compressor (12), the control unit (18) being adapted to operate the compressor (12) in a first mode of operation and in a second mode of operation during a drying cycle, wherein the compressor (12) is an AC rotary compressor (12), in the first mode of operation, the AC rotary compressor (12) is constantly switched on, and in the second mode of operation, the AC rotary compressor (12) is alternately switched on and off. Further, a method for operating a clothes drying apparatus (1) comprising a heat pump (11) including a AC rotary compressor (12) in a first and second mode of operation is disclosed.

IPC 8 full level

D06F 58/20 (2006.01); **D06F 34/08** (2020.01); **D06F 58/32** (2020.01)

CPC (source: CN EP ES US)

D06F 34/08 (2020.02 - CN EP ES US); **D06F 58/206** (2013.01 - CN EP ES US); **D06F 58/30** (2020.02 - CN);
D06F 58/32 (2020.02 - CN EP ES US); **D06F 2103/50** (2020.02 - EP US); **D06F 2105/26** (2020.02 - CN EP ES US)

Citation (applicant)

- WO 2007077084 A1 20070712 - BSH BOSCH SIEMENS HAUSGERÄTE [DE], et al
- EP 2985466 A1 20160217 - BSH ELECTRODOMESTICOS ESPANA SA [ES], et al

Citation (search report)

- [XP] EP 3425109 A1 20190109 - ELECTROLUX APPLIANCES AB [SE]
- [X] JP 2013132417 A 20130708 - PANASONIC CORP
- [X] DE 112013004377 T5 20150513 - PANASONIC IP MAN CO LTD [JP]
- [A] EP 2586906 A1 20130501 - ELECTROLUX HOME PROD CORP [BE]

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 3533920 A1 20190904; **EP 3533920 B1 20221214**; CN 110219152 A 20190910; CN 110219152 B 20230314; ES 2724363 A1 20190910; PL 3533920 T3 20230320

DOCDB simple family (application)

EP 19156133 A 20190208; CN 201910148327 A 20190228; ES 201830209 A 20180302; PL 19156133 T 20190208