

Title (en)
Rotary-drum laundry dryer

Title (de)
Wäschetrockner mit Drehtrommel

Title (fr)
Sèche-linge à tambour rotatif

Publication
EP 2527528 A1 20121128 (EN)

Application
EP 11167970 A 20110527

Priority
EP 11167970 A 20110527

Abstract (en)
Rotary-drum laundry dryer (1) comprising a revolving drum (3) structured for housing the laundry to be dried, a hot-air generator (6) structured to circulate a stream of hot air through said revolving drum (3), and a lower supporting base or socle (9) which is structured for resting on the floor and for housing at least part of the hot-air generator (6); the hot-air generator (6) in turn comprising: an air recirculating conduit (12) having its two ends connected to the revolving drum (3); air circulating means (13) which are located along the air recirculating conduit (12) and are structured to produce, inside the air recirculating conduit (12), an airflow (f) which flows through the revolving drum (3) and over the laundry inside the drum (3); and at least one heat exchanger (15) located along the air recirculating conduit (12) and structured to cool the moist air arriving from the rotatable drum (3) so to cause the condensation of the surplus moisture inside the airflow (f); a segment (12c) of the air recirculating conduit (12) extending across the lower supporting base or socle (9), and being structured so as to house said at least one heat exchanger (15) of the hot-air generator (6); the hot-air generator (6) additionally comprising air filtering means (18) located along the air recirculating conduit (12), upstream of said at least one heat exchanger (15), and a rigid, grid-like protective assembly (19) which is firmly fixed inside said segment (12c) of the air recirculating conduit (12), downstream of the filtering assembly (18) and upstream of the at least one heat exchanger (15), so to bar said segment (12c) of the air recirculating conduit (12) for preventing a generic hard foreign body to reach the heat exchanger (15).

IPC 8 full level
D06F 58/20 (2006.01); **D06F 58/24** (2006.01)

CPC (source: CN EP US)
D06F 58/04 (2013.01 - CN EP US); **D06F 58/20** (2013.01 - CN EP US); **D06F 58/206** (2013.01 - CN EP US); **D06F 58/22** (2013.01 - CN EP US); **D06F 58/24** (2013.01 - CN EP US)

Citation (applicant)
EP 2034084 A1 20090311 - V ZUG AG [CH]

Citation (search report)
• [A] WO 2010071355 A2 20100624 - LG ELECTRONICS INC [KR], et al
• [A] US 2010154241 A1 20100624 - AHN SEUNG PHYU [KR], et al
• [A] GB 2261060 A 19930505 - WHIRLPOOL EUROP [NL]
• [A] GB 2269445 A 19940209 - BOSCH SIEMENS HAUSGERAETE [DE]

Cited by
DE102013113506B4; DE102017125054B4; CN105518206A; EP2990523A1; DE102015206492A1; EP3045581A1; RU2626952C2; EP2881514A1; AU2013396776B2; EP3124682A1; AU2016206407B2; EP2990522A1; CN106661812A; AU2015309137B2; CN112088231A; EP3792389A4; US10544540B2; WO2016030143A1; WO2019129641A1; DE102017125054A1; EP3014011B1; EP2990522B1; EP2990523B1

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 2527528 A1 20121128; EP 2527528 B1 20141210; AU 2012265068 B2 20170302; BR 112013030314 A2 20190924; CN 103608511 A 20140226; CN 103608511 B 20160224; RU 2013157337 A 20150710; US 2014165416 A1 20140619; WO 2012163615 A1 20121206

DOCDB simple family (application)
EP 11167970 A 20110527; AU 2012265068 A 20120502; BR 112013030314 A 20120502; CN 201280025936 A 20120502; EP 2012058021 W 20120502; RU 2013157337 A 20120502; US 201214122263 A 20120502