

Title (en)  
Laundry dryer including a heat pump system

Title (de)  
Wäschetrockner mit Wärmepumpenanlage

Title (fr)  
Sèche-linge comprenant un système de pompe à chaleur

Publication  
**EP 2990520 B1 20200311 (EN)**

Application  
**EP 14182932 A 20140829**

Priority  
EP 14182932 A 20140829

Abstract (en)  
[origin: EP2990520A1] The present invention relates to a laundry dryer (1) including: - a casing (2) rotatably supporting a drum (3) for receiving a load to be dried, said drum being apt to rotate around a drum axis (R), said casing (2) including o a rear wall (21) and a front wall (20) defining, respectively, a rear side and a front side of said casing (2), an aperture (4a) being realized on said front wall to access said drum (3); o a basement (24) defining a basement plane (X,Y); - A process air conduit (18) in fluid communication with the drum (3) where a process air stream is apt to flow, said process air conduit including a drum exhaust process air conduit (18a) having an inlet (17) in which process air exiting said drum (3) is conveyed; - A heat pump (30) having a heat pump circuit in which a refrigerant can flow, said heat pump circuit including a first heat exchanger (31) where the refrigerant is cooled off and the process air is heated up, and a second heat exchanger (32) where the refrigerant is heated up and the process air is cooled off; said first and/or second heat exchanger (31, 32) being arranged in the process air conduit (18) in order to perform heat exchange between said refrigerant flowing in said heat pump circuit and said process air; Wherein - Said drum exhaust process air conduit (18a) includes an inlet edge (17s) surrounding said inlet (17) and defining a front end and a rear end; and - A first portion (32b) of said second heat exchanger (32) is located below said rear end of said inlet edge (17s) and a second portion (32d) of said second heat exchanger (32) is located below said drum (3).

IPC 8 full level  
**D06F 58/04** (2006.01); **D06F 58/02** (2006.01); **D06F 58/20** (2006.01); **D06F 58/22** (2006.01)

CPC (source: CN EP US)  
**D06F 58/206** (2013.01 - CN EP US); **D06F 58/22** (2013.01 - CN EP US); **D06F 58/02** (2013.01 - CN EP US); **D06F 58/04** (2013.01 - CN EP US)

Cited by  
CN110872782A

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

DOCDB simple family (publication)  
**EP 2990520 A1 20160302**; **EP 2990520 B1 20200311**; AU 2015309201 A1 20170216; AU 2015309201 B2 20191205; CN 106605019 A 20170426; CN 106605019 B 20190521; PL 2990520 T3 20200810; WO 2016030117 A1 20160303

DOCDB simple family (application)  
**EP 14182932 A 20140829**; AU 2015309201 A 20150729; CN 201580045537 A 20150729; EP 2015067404 W 20150729; PL 14182932 T 20140829