

Title (en)
HEAT PUMP LAUNDRY DRYER

Title (de)
WÄRMEPUMPENWÄSCHETROCKNER

Title (fr)
SÈCHE-LINGE À POMPE À CHALEUR

Publication
EP 3137674 A1 20170308 (EN)

Application
EP 14723374 A 20140428

Priority
EP 2014058587 W 20140428

Abstract (en)
[origin: WO2015165487A1] The present invention relates to a laundry dryer (1) of the type comprising a heat pump system (20) having a refrigerant circuit (30) where a refrigerant (R) flows and comprising a drying air circuit (10) in communication with a laundry container (9) suited for receiving laundry to be dried using drying air (A). The refrigerant circuit (30) comprises: a first heat exchanger (21) for heating the drying air (A) and cooling the refrigerant (R); a second heat exchanger (23) for cooling the drying air (A) and heating the refrigerant (R); a refrigerant expansion device (22) arranged in the refrigerant circuit (30) between the first heat exchanger (21) and the second heat exchanger (23), and a compressor (24) arranged in the refrigerant circuit (30) between the second heat exchanger (23) and the first heat exchanger (21). The compressor (24) comprises a compressor chamber (260) for the refrigerant (R) and a lubricant (L). The ratio of the amount (Q) of lubricant (L) to the volume (Vd) of the compressor chamber (260) is comprised between 5 and 15 ml/cc.

IPC 8 full level
D06F 58/20 (2006.01); **D06F 58/22** (2006.01); **D06F 58/24** (2006.01)

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

Citation (search report)
See references of WO 2015165487A1

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 2015165487 A1 20151105; AU 2014392299 A 20160915; CN 106255780 A 20161221; CN 106255780 B 20190517; EP 3137674 A1 20170308; EP 3137674 B1 20181107

DOCDB simple family (application)
EP 2014058587 W 20140428; AU 2014392299 A 20140428; CN 201480078444 A 20140428; EP 14723374 A 20140428