

Title (en)  
A heat pump laundry dryer

Title (de)  
Wärmepumpe für einen Wäschetrockner

Title (fr)  
Sèche-linge à pompe à chaleur

Publication  
**EP 2527521 A1 20121128 (EN)**

Application  
**EP 11167566 A 20110526**

Priority  
EP 11167566 A 20110526

Abstract (en)  
A laundry dryer with heat pump system, wherein the heat pump system comprises a closed refrigerant circuit for a refrigerant, the refrigerant circuit includes at least one compressor (10), at least one gas cooler (12), at least one expansion means (14) and at least one evaporator/gas heater (16), the refrigerant circuit is thermally coupled to a drying air circuit of the laundry dryer by the gas cooler (12) and the evaporator/gas heater (16), the gas cooler (12) is a heat exchanger and provided for heating up the drying air stream and cooling down the refrigerant, and the evaporator/gas heater (16) is a heat exchanger and provided for dehumidifying the drying air and heating up the refrigerant, the refrigerant circuit comprises a low pressure side between the outlet of the expansion means (14) and the inlet of the compressor (10), the refrigerant circuit comprises a high pressure side between the outlet of the compressor (10) and the inlet of the inlet of expansion means (14), wherein the refrigerant operates at supercritical conditions at least in the high pressure side of the refrigerant circuit, wherein the laundry dryer comprises at least one refrigerant trap (18) fluidly connected or connectable to at least one part of the refrigerant circuit and valve means (20, 22, 24, 26) to selectively connect and/or disconnect the refrigerant trap (18) to said least one part of the refrigerant circuit

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

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

Citation (search report)  
• [A] WO 2005031231 A1 20050407 - MATSUSHITA ELECTRIC INDSTRUAL [JP], et al  
• [A] EP 1811077 A1 20070725 - SANYO ELECTRIC CO [JP]  
• [A] EP 2060671 A1 20090520 - ELECTROLUX HOME PROD CORP [BE]

Cited by  
EP3896214A1; WO2015003742A1; WO2014127842A1

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 2527521 A1 20121128**

DOCDB simple family (application)  
**EP 11167566 A 20110526**