

Title (en)

Dehumidifying-warming apparatus and clothes drier

Title (de)

Vorrichtung zur Entfeuchtung und Erwärmung sowie Wäschetrockner

Title (fr)

Appareil de chauffage/déshumidification et sèche-linge

Publication

EP 2415927 A3 20150819 (EN)

Application

EP 11176216 A 20110802

Priority

- JP 2010177216 A 20100806
- JP 2010177217 A 20100806
- JP 2010177218 A 20100806
- JP 2011004680 A 20110113

Abstract (en)

[origin: EP2415927A2] A heat pump device connecting a compressor, a heat radiator, an expansion mechanism, and a heat absorber by using a pipe through which a refrigerant circulates, a temperature measuring unit that is disposed in a pipe connecting the heat radiator, and a wind circuit through which air of the heat pump device flows inside from an air inlet at the heat absorber and flows outside from an air outlet at the heat radiator, are included. Further, a drain pan receiving condensed water produced by heat exchange between the air in the wind circuit and air in heat absorber is further included, and the temperature measuring unit is disposed under a boundary position where water of the drain pan overflows.

IPC 8 full level

D06F 58/20 (2006.01); **D06F 58/24** (2006.01); **D06F 58/50** (2020.01)

CPC (source: EP US)

D06F 58/206 (2013.01 - EP US); **D06F 58/24** (2013.01 - EP US); **D06F 58/50** (2020.02 - EP US); **D06F 2103/50** (2020.02 - EP US); **D06F 2103/58** (2020.02 - EP US); **D06F 2105/26** (2020.02 - EP US)

Citation (search report)

- [A] DE 102008040853 A1 20100204 - BSH BOSCH SIEMENS HAUSGERAETE [DE]
- [A] EP 1811076 A1 20070725 - SANYO ELECTRIC CO [JP]

Cited by

DE102015203663A1; DE102013222929A1; DE102015205483A1; EP2995715A1; DE102014218253A1; EP2746457A1; ITPR20120082A1; EP3556931A1; EP3808889A1; EP2664705A1; CN103422332A; EP3425109A1; AU2018203683B2; US9200841B2; DE102015203682A1; WO2014083503A3; US10988895B2; US11542655B2; EP3064638A1; US1186943B2; US11761141B2; WO2016150660A1; WO2014095554A1; WO2014095790A1

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 2415927 A2 20120208; EP 2415927 A3 20150819; EP 2415927 B1 20160720; CN 102374699 A 20120314; CN 102374699 B 20140924; CN 102374700 A 20120314; CN 102374700 B 20140507; EP 2415928 A2 20120208; EP 2415928 A3 20150902

DOCDB simple family (application)

EP 11176216 A 20110802; CN 201110225128 A 20110805; CN 201110225142 A 20110805; EP 11176217 A 20110802