

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 A2 20120208 (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)

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 58/28** (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 (applicant)

JP H07178289 A 19950718 - MATSUSHITA ELECTRIC IND CO LTD

Cited by

EP2995715A1; DE102014218253A1; DE102013222929A1; DE102015205483A1; DE102015203663A1; EP2746457A1; ITPR20120082A1; EP2664705A1; CN103422332A; EP3556931A1; EP3808889A1; EP3425109A1; AU2018203683B2; US9200841B2; DE102015203682A1; WO2014083503A3; US10988895B2; US11542655B2; US11186943B2; US11761141B2; WO2016150660A1; WO2014095554A1; WO2014095790A1; EP3064638A1

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