

Title (en)

Dehumidifying-warming apparatus and clothes dryer using the same

Title (de)

Vorrichtung zur Entfeuchtung und Erwärmung sowie Wäschetrockner damit

Title (fr)

Appareil de chauffage/déshumidification et sèche-linge l'utilisant

Publication

EP 2415928 A2 20120208 (EN)

Application

EP 11176217 A 20110802

Priority

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

Abstract (en)

A dehumidifying-warming apparatus includes 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 first temperature measuring unit, a second temperature measuring unit, and a wind circuit through which air of the heat pump device flows inside from an air inlet at the heat absorber side and flows outside from an air outlet at the heat radiator side . Further, a drain pan that receives condensed water produced by heat exchange between the air in the wind circuit and the air in the heat absorber and the first temperature measuring unit is positioned under an overflow stream line of the drain pan.

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 (applicant)

JP H07178289 A 19950718 - MATSUSHITA ELECTRIC IND CO LTD

Cited by

US11186943B2; US11761141B2

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