

Title (en)
Heat pump device

Title (de)
Wärmepumpenvorrichtung

Title (fr)
Dispositif de pompe à chaleur

Publication
EP 2149767 A1 20100203 (EN)

Application
EP 08425513 A 20080728

Priority
EP 08425513 A 20080728

Abstract (en)
Heat pump device, particularly adapted for use in connection with a clothes drying machine or a machine intended to heat up a mass of water, comprising an electric heater (20; 120) adapted to transfer thermal energy to a refrigerant medium in a portion of a closed-loop circuit, through which said refrigerant medium is intended to flow, extending from an evaporator means (46; 146) and a compressor (40; 140); said electric heater (20, 120) comprises a fluid-tight casing (22) provided with attachment end portions (24, 26) adapted to be connected to a pipe, and contains at least a heating element (28) adapted to be submerged by said refrigerant medium.

IPC 8 full level
F25B 40/06 (2006.01)

CPC (source: EP US)
D06F 58/206 (2013.01 - EP US); **F25B 30/06** (2013.01 - EP); **F25B 40/06** (2013.01 - EP US); **F25B 2400/01** (2013.01 - EP); **F25B 2700/21152** (2013.01 - EP)

Citation (search report)

- [XY] EP 1650343 A1 20060426 - SANYO ELECTRIC CO [JP]
- [Y] JP 2001110556 A 20010420 - DAIKIN IND LTD
- [Y] US 2007000269 A1 20070104 - MONGIA RAJIV K [US]
- [Y] DE 102006054828 A1 20070531 - DENSO CORP [JP]
- [X] JP 2001091065 A 20010406 - DAIKIN IND LTD
- [X] JP 2000274842 A 20001006 - SANYO ELECTRIC CO
- [X] JP H11245655 A 19990914 - CALSONIC CORP
- [A] EP 1632736 A2 20060308 - SANYO ELECTRIC CO [JP], et al

Cited by
KR20160014033A; CN102809274A; US2013047638A1; ES2754879A1; CN105392937A; US11473819B2; WO2013045363A1; WO2014191237A1; WO2018202415A1; EP3173513A1; WO2014198300A1

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA MK RS

DOCDB simple family (publication)
EP 2149767 A1 20100203

DOCDB simple family (application)
EP 08425513 A 20080728