

Title (en)

HEAT PUMP SYSTEM COMPRISING ONE OR MORE DEVICES DESIGNED TO BLOCK ANY REFRIGERANT LEAKS

Title (de)

WÄRMEPUMPENSYSYSTEM MIT EINER ODER MEHREREN VORRICHTUNGEN ZUR BLOCKIERUNG VON KÄLTEMITTELLECKS

Title (fr)

SYSTÈME DE POMPE À CHALEUR COMPRENANT UN OU PLUSIEURS DISPOSITIFS DESTINÉS À BLOQUER TOUTE FUITE DE FLUIDE FRIGORIGÈNE

Publication

EP 4372288 A1 20240522 (EN)

Application

EP 23204397 A 20231018

Priority

IT 202200023796 A 20221118

Abstract (en)

The object of the present invention is a heat pump system (1) comprising at least one refrigeration circuit (2) in which a refrigerant fluid circulates and operates at the primary side (24) of a main heat exchanger (21), one conditioning circuit (3) in which a technical fluid, used for room heating/cooling functions and/or for the production of domestic water, circulates and operates at the secondary side (25) of said same main heat exchanger (21). Said conditioning circuit (3) comprises at least one circulation pump (30) for said technical fluid, one or more terminals (31) for room heating/cooling and/or for the production of domestic water, and one safety valve (5) capable of being crossed by said technical fluid and of closing in case of refrigerant fluid leakage flows in said conditioning circuit (3) in opposite direction (FR) to that of operation (F) of the said technical fluid.

IPC 8 full level

F24D 19/10 (2006.01); **F24H 15/12** (2022.01); **F25B 1/00** (2006.01)

CPC (source: EP)

F24D 19/1039 (2013.01); **F24H 15/12** (2022.01); **F24D 2200/123** (2013.01); **F25B 1/00** (2013.01); **F25B 25/005** (2013.01); **F25B 2339/047** (2013.01); **F25B 2500/222** (2013.01)

Citation (applicant)

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- DE 102020103743 B4 20211118 - VIESSMANN WERKE KG [DE]
- US 2019346191 A1 20191114 - MINAMISAKO HIROKAZU [JP], et al
- EP 3789686 A1 20210310 - VAILLANT GMBH [DE]
- US 2019301750 A1 20191003 - SUZUKI YASUHIRO [JP], et al
- CN 1133045 A 19961009 - UNIV VIRGINIA [US]

Citation (search report)

- [X] US 2019346191 A1 20191114 - MINAMISAKO HIROKAZU [JP], et al
- [X] EP 3734198 A1 20201104 - WOLF GMBH [DE]
- [X] EP 3789686 A1 20210310 - VAILLANT GMBH [DE]
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- [A] CN 1133045 C 20031231

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 ME MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

EP 4372288 A1 20240522; FR 3142238 A3 20240524

DOCDB simple family (application)

EP 23204397 A 20231018; FR 2312257 A 20231109