

Title (en)
REFRIGERATION SYSTEM

Title (de)
KÄLTEANLAGE

Title (fr)
SYSTÈME DE RÉFRIGÉRATION

Publication
EP 3070418 A3 20170111 (EN)

Application
EP 16160865 A 20160317

Priority
IT BO20150132 A 20150318

Abstract (en)
[origin: EP3070418A2] An operating method and refrigeration circuit (1), in particular for a heat pump (2) with cycle inversion; wherein the refrigeration circuit (1) has a finned heat exchanger (5), which is adapted to be installed on the outside of a room (H) to be conditioned, and a utility (7), adapted to be installed on the inside of the room (H) to be conditioned; wherein the exchanger (5) is adapted to be flowed through, on the outside, by an air flow in a given direction (W) and, on the inside, by a refrigerant fluid (F), which can selectively flow either in a first direction (R1) or in a second direction (R2); wherein the exchanger (5) is flowed through by the fluid (F) always in a countercurrent flow relative to the direction (W) of the outside air whatever the feeding direction (R1; R2) of the refrigerant fluid (F) on the inside of the refrigeration circuit (1) is.

IPC 8 full level
F25B 13/00 (2006.01); **F25B 39/00** (2006.01); **F25B 41/00** (2006.01); **F25B 41/04** (2006.01)

CPC (source: EP US)
F25B 13/00 (2013.01 - EP US); **F25B 39/00** (2013.01 - EP); **F25B 41/20** (2021.01 - EP US); **F25B 41/42** (2021.01 - EP US); **F28D 1/0477** (2013.01 - EP); **F28D 1/05316** (2013.01 - EP); **F28F 9/0246** (2013.01 - EP); **F28F 9/026** (2013.01 - EP)

Citation (search report)
• [X] EP 2500676 A1 20120919 - STIEBEL ELTRON GMBH & CO KG [DE]
• [X] FR 2279040 A1 19760213 - BERNIER JACQUES [FR]
• [X] EP 0184200 A2 19860611 - HITACHI LTD [JP]
• [XA] WO 2014155816 A1 20141002 - MITSUBISHI ELECTRIC CORP [JP] & EP 2980510 A1 20160203 - MITSUBISHI ELECTRIC CORP [JP]

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 3070418 A2 20160921; EP 3070418 A3 20170111; EP 3070418 B1 20210721; ES 2881696 T3 20211130

DOCDB simple family (application)
EP 16160865 A 20160317; ES 16160865 T 20160317