

Title (en)

HEAT PUMP SYSTEM WITH RAPID DEFROSTING MODE

Title (de)

WÄRMEPUMPENSYSTEM MIT SCHNELLEM ABTAUMODUS

Title (fr)

SYSTÈME DE POMPE À CHALEUR À MODE DE DÉGIVRAGE RAPIDE

Publication

EP 3225941 A1 20171004 (EN)

Application

EP 16163359 A 20160331

Priority

EP 16163359 A 20160331

Abstract (en)

The invention relates to a heat pump system comprising a refrigerant circuit, the refrigerant circuit comprising an evaporator and a heat exchanger which is adapted to exchange heat between the refrigerant circuit and an entity to be heated, wherein the refrigerant circuit further comprises a bypass line bypassing the heat exchanger and the refrigerant circuit in addition to the heat exchanger and the evaporator comprises a heat source which is adapted to heat refrigerant which is routed through the bypass line.

IPC 8 full level

F25B 47/02 (2006.01); **F25B 41/04** (2006.01)

CPC (source: EP US)

F25B 41/20 (2021.01 - EP US); **F25B 41/385** (2021.01 - EP US); **F25B 47/02** (2013.01 - EP US); **F25B 2347/02** (2013.01 - EP); **F25B 2400/01** (2013.01 - EP); **F25B 2400/0403** (2013.01 - EP); **F25B 2400/0409** (2013.01 - EP); **F25B 2400/06** (2013.01 - EP)

Citation (search report)

- [X] EP 2677252 A1 20131225 - LG ELECTRONICS INC [KR]
- [X] WO 9724565 A1 19970710 - STORE HEAT & PRODUCE ENERGY IN [US], et al
- [X] US 2011067427 A1 20110324 - HALLER REGINE [FR], et al
- [X] WO 9421976 A1 19940929 - SHAPE INC [US]
- [X] EP 2554410 A1 20130206 - VALEO KLIMASYSTEME GMBH [DE]
- [X] US 2013098092 A1 20130425 - WAKAMOTO SHINICHI [JP], et al

Cited by

CN110736213A; CN110736203A; CN114992838A

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 3225941 A1 20171004

DOCDB simple family (application)

EP 16163359 A 20160331