

Title (en)

METHOD FOR OPERATING A HEAT PUMP AND HEAT PUMP

Title (de)

VERFAHREN ZUM BETRIEB EINER WÄRMEPUMPE UND WÄRMEPUMPE

Title (fr)

PROCÉDÉ DE FONCTIONNEMENT D'UNE POMPE À CHALEUR ET POMPE À CHALEUR

Publication

EP 2992277 A1 20160309 (DE)

Application

EP 14733544 A 20140605

Priority

- DE 102013211084 A 20130614
- EP 2014061692 W 20140605

Abstract (en)

[origin: CA2915306A1] The invention relates to a method for operating a heat pump (1) comprising the following steps: a fluid is condensed by means of at least one condensation device (5); the fluid is expanded by means of at least one expansion device (6); the fluid is evaporated by means of at least one evaporation device (2); and the fluid is compressed by means of at least one compression device (3). An ionic liquid is used when compressing the fluid. The invention also relates to a heat pump (1).

IPC 8 full level

F04B 9/00 (2006.01); **F04B 31/00** (2006.01); **F04C 19/00** (2006.01); **F25B 9/14** (2006.01); **F25B 31/02** (2006.01)

CPC (source: EP KR US)

C09K 5/044 (2013.01 - US); **F04C 19/00** (2013.01 - KR); **F04C 19/001** (2013.01 - EP KR US); **F04C 19/004** (2013.01 - EP KR US); **F25B 9/004** (2013.01 - EP KR US); **F25B 9/14** (2013.01 - EP KR US); **F25B 30/02** (2013.01 - US); **F25B 31/002** (2013.01 - EP KR US); **F25B 31/006** (2013.01 - US); **F25B 31/02** (2013.01 - EP KR US); **F25B 43/02** (2013.01 - KR)

Citation (search report)

See references of WO 2014198627A1

Citation (examination)

WO 2006029884 A1 20060323 - BASF AG [DE], et al

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)

DE 102013211084 A1 20141218; CA 2915306 A1 20141218; CA 2915306 C 20180313; CN 105264307 A 20160120; EP 2992277 A1 20160309; JP 2016527465 A 20160908; KR 20160017076 A 20160215; KR 20170125115 A 20171113; US 2016123636 A1 20160505; WO 2014198627 A1 20141218

DOCDB simple family (application)

DE 102013211084 A 20130614; CA 2915306 A 20140605; CN 201480032478 A 20140605; EP 14733544 A 20140605; EP 2014061692 W 20140605; JP 2016518933 A 20140605; KR 20167000296 A 20140605; KR 20177031478 A 20140605; US 201414898040 A 20140605