

Title (en)

Heat pump and method for operating a heat pump

Title (de)

Wärmepumpe und Verfahren zum Betrieb einer Wärmepumpe

Title (fr)

Pompe à chaleur et procédé de fonctionnement d'une pompe à chaleur

Publication

EP 2180274 A3 20150107 (DE)

Application

EP 09013217 A 20091020

Priority

DE 102008053236 A 20081025

Abstract (en)

[origin: EP2180274A2] The heat pump (4) has a primary circuit (6) for a primary fluid (P), and a heat exchanger (8,10) which is used as condenser or compressor depending on the selected operating mode. A switching arrangement is provided in the secondary circuit (12,14), by which the flow direction of the heat exchanger fluid is adjusted by the heat exchanger depending on the selected operating mode. The primary fluid and the heat exchanger fluid are guided into each operating mode by the heat exchanger in the counter flow principle. An independent claim is included for a method for operating a heat pump.

IPC 8 full level

F25B 13/00 (2006.01); **F25B 25/00** (2006.01)

CPC (source: EP)

F25B 13/00 (2013.01); **F25B 25/005** (2013.01); **F25B 2313/002** (2013.01); **F25B 2313/003** (2013.01); **F25B 2313/004** (2013.01); **F25B 2313/02741** (2013.01); **F25B 2313/0314** (2013.01)

Citation (search report)

- [X1] JP H0331640 A 19910212 - MITSUBISHI ELECTRIC CORP
- [X1] WO 2008117408 A1 20081002 - MITSUBISHI ELECTRIC CORP [JP], et al
- [XY1] RENEDO C J ET AL: "Optimum design for reversible water-water heat pumps", ENERGY AND BUILDINGS, LAUSANNE, CH, vol. 38, no. 10, 3 March 2006 (2006-03-03), pages 1240 - 1247, XP027939140, ISSN: 0378-7788, [retrieved on 20061001]
- [Y] ANONYMOUS: "Dimplex - Technik erklärt - Funktionsweise der reversiblen Wärmepumpe", 14 March 2008 (2008-03-14), XP055154193, Retrieved from the Internet <URL:https://web.archive.org/web/20080314071831/http://www.dimplex.de/animationen/kreislauf2.php> [retrieved on 20141120]

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

Designated extension state (EPC)

AL BA RS

DOCDB simple family (publication)

EP 2180274 A2 20100428; EP 2180274 A3 20150107; DE 102008053236 A1 20100429; DE 102008053236 B4 20200709

DOCDB simple family (application)

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