

Title (en)
Heat pump device

Title (de)
Wärmepumpenvorrichtung

Title (fr)
Dispositif de pompes à chaleur

Publication
EP 1965154 B1 20111026 (DE)

Application
EP 08003313 A 20080223

Priority
DE 102007010646 A 20070302

Abstract (en)
[origin: EP1965154A2] An electronic expansion valve (80) is closed when a heating-pump device is inactive. It regulates overheating in an injected coolant when hot-gas temperatures are below a critical temperature. When hot-gas temperatures are in a range of a critical temperature, a partly liquid coolant is injected into a condenser (10) so that a defined maximum value is not reached in a hot-gas temperature. An independent claim is also included for a method for operating a heating-pump device.

IPC 8 full level
F25B 30/02 (2006.01)

CPC (source: EP)
F25B 30/02 (2013.01); **F25B 2400/13** (2013.01); **F25B 2600/21** (2013.01); **F25B 2600/2509** (2013.01)

Citation (examination)
JP 02037259 A

Cited by
EP2479517A1; CN113188269A; US9091464B2; DE102012101041A1; WO2013117187A2

Designated contracting state (EPC)
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DOCDB simple family (publication)
EP 1965154 A2 20080903; EP 1965154 A3 20090708; EP 1965154 B1 20111026; AT E530864 T1 20111115; DE 102007010646 A1 20080904; DE 102007010646 B4 20220105; DE 202007019159 U1 20101028; EP 2345858 A2 20110720; EP 2345858 A3 20130515; ES 2374091 T3 20120213; PL 1965154 T3 20120330

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EP 08003313 A 20080223; AT 08003313 T 20080223; DE 102007010646 A 20070302; DE 202007019159 U 20070302; EP 10015257 A 20080223; ES 08003313 T 20080223; PL 08003313 T 20080223