

Title (en)

Heat pump and method for cyclic vapour compression

Title (de)

Wärmepumpe und Verfahren zur zyklischen Dampfkompensation

Title (fr)

pompe à chaleur pour compression de vapeur cyclique

Publication

EP 1582826 B1 20080109 (DE)

Application

EP 05006270 A 20050322

Priority

DE 102004015297 A 20040329

Abstract (en)

[origin: EP1582826A1] A heat pump for cyclic vapor compression comprises a supercritical high-pressure side, a direct vaporizer (1) low-pressure collector (2), compressor, gas cooler (4) and throttle (5) all in series in a working fluid flow. The direct vaporizer is embedded in the earth with evaporating lines thermally contacting the earth. An independent claim is also included for an operating process for the above.

IPC 8 full level

F25B 30/06 (2006.01); **F25B 9/00** (2006.01); **F28D 20/00** (2006.01); **F25B 40/00** (2006.01)

CPC (source: EP)

F25B 9/008 (2013.01); **F25B 30/06** (2013.01); **F25B 40/00** (2013.01); **F25B 2309/061** (2013.01)

Cited by

NL1032852C2

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

EP 1582826 A1 20051005; **EP 1582826 B1 20080109**; AT E383554 T1 20080115; DE 102004015297 A1 20051103; DE 502005002458 D1 20080221

DOCDB simple family (application)

EP 05006270 A 20050322; AT 05006270 T 20050322; DE 102004015297 A 20040329; DE 502005002458 T 20050322