

Title (en)

Device combining internal heat exchanger and accumulator for an air conditioning circuit

Title (de)

Vorrichtung, die einen inneren Wärmetauscher und Akkumulator für einen Kreislauf einer Klimaanlage kombiniert

Title (fr)

Dispositif combiné d'échangeur de chaleur interne et d'accumulateur pour un circuit de climatisation

Publication

EP 1640676 B1 20071024 (FR)

Application

EP 05017463 A 20050811

Priority

FR 0410133 A 20040924

Abstract (en)

[origin: EP1640676A1] The device has an outer cylindrical wall (20) with channels (22) to vertically circulate refrigerant upwards at high pressure and temperature. An annular space (48) is defined between the wall (20) and a cylindrical wall of a refrigerant container (32) to vertically circulate the refrigerant downwards at low pressure and temperature. Heat is exchanged between the refrigerants. Connections for the refrigerant, and for connection to an evaporator and a compressor, are grouped respectively in an upper flange (26) and a lower flange (24). An independent claim is also included for a gas cooler for an air-conditioning circuit circulated by a refrigerant in gaseous phase.

IPC 8 full level

F25B 40/00 (2006.01)

CPC (source: EP)

F25B 40/00 (2013.01); **F25B 43/006** (2013.01); **F28D 7/026** (2013.01); **F28D 7/103** (2013.01); **F28F 1/105** (2013.01); **F28F 7/02** (2013.01);
F25B 9/008 (2013.01); **F25B 2309/061** (2013.01); **F25B 2339/044** (2013.01); **F25B 2400/051** (2013.01); **F25B 2500/18** (2013.01)

Cited by

EP2937658A1; EP1724536A3; EP1762803A1; FR2890726A1; EP2631566A1; CN103292525A; EP3757485A4; EP2110624A1; FR2930018A1;
FR3111966A1; JP2018115839A; US11573036B2; DE102017211857A1; US9719706B2; WO2018135385A1

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