

Title (en)

Improved expansion valve for air conditioning circuit

Title (de)

Verbesserte Entspannungsvorrichtung für einen Klimakreislauf

Title (fr)

Dispositif de détente améliorée pour circuit de climatisation

Publication

EP 1715264 B1 20100602 (FR)

Application

EP 05008382 A 20050418

Priority

- EP 05008382 A 20050418
- FR 0403766 A 20040409

Abstract (en)

[origin: US2005223740A1] The invention proposes an expansion device, intended for installation in an air conditioning system with a supercritical refrigerant fluid (FR). The expansion device (12) comprises a body (120) through which the refrigerant fluid is to pass, equipped with an inlet chamber (1210) into which the refrigerant fluid arrives and an outlet chamber (1230) through which the refrigerant fluid departs. The expansion device further comprises a set of expansion means to allow the refrigerant fluid to pass from the inlet chamber (1210) to the outlet chamber (1230). These expansion means comprise: variable expansion means (1212) comprising a first orifice (34) and an adjusting screw (134) suitable for adjusting the flow section of the first orifice (34), and fixed expansion means comprising a second orifice (35) with a fixed flow section.

IPC 8 full level

F25B 41/06 (2006.01); **F25B 9/00** (2006.01)

CPC (source: EP US)

F25B 41/33 (2021.01 - EP US); **F25B 9/008** (2013.01 - EP US); **F25B 2309/061** (2013.01 - EP US); **F25B 2341/063** (2013.01 - EP US)

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)

FR 2868830 A1 20051014; **FR 2868830 B1 20121130**; AT E470115 T1 20100615; CN 100541061 C 20090916; CN 1743772 A 20060308; DE 602005021618 D1 20100715; EP 1715264 A1 20061025; EP 1715264 B1 20100602; ES 2345497 T3 20100924; US 2005223740 A1 20051013; US 7243501 B2 20070717

DOCDB simple family (application)

FR 0403766 A 20040409; AT 05008382 T 20050418; CN 200510064867 A 20050408; DE 602005021618 T 20050418; EP 05008382 A 20050418; ES 05008382 T 20050418; US 10290105 A 20050408