

Title (en)

Expansion device

Title (de)

Entspannungsvorrichtung

Title (fr)

Dispositif détendeur

Publication

EP 1892488 A2 20080227 (EN)

Application

EP 07014538 A 20070724

Priority

JP 2006229559 A 20060825

Abstract (en)

An expansion device 3 containing a differential pressure control valve has a temperature-sensing actuator like a shape-memory alloy spring 21 disposed at an outlet 14. When an air conditioner is started under a high-load condition in which the outlet temperature is high, the shape-memory alloy spring 21 senses the high temperature, to urge a spring 18 determining a valve-opening point of the differential pressure control valve, whereby the differential pressure control valve is opened in advance or placed in a state capable of opening in response to a very low differential pressure, thereby making it possible to cause refrigerant to flow at a large flow rate until the outlet temperature is lowered to a certain temperature.

IPC 8 full level

F25B 41/06 (2006.01)

CPC (source: EP KR US)

F25B 9/008 (2013.01 - KR); **F25B 40/00** (2013.01 - KR); **F25B 41/335** (2021.01 - EP KR US); **F25B 41/36** (2021.01 - EP KR US); **F25B 9/008** (2013.01 - EP US); **F25B 40/00** (2013.01 - EP US); **F25B 2309/061** (2013.01 - EP KR US); **F25B 2500/18** (2013.01 - EP KR US); **F25B 2500/26** (2013.01 - EP KR US); **F25B 2600/2505** (2013.01 - EP KR US); **F25B 2700/21174** (2013.01 - EP KR US)

Cited by

CN103529150A; WO2009060465A3

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 LV MC MT NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR MK YU

DOCDB simple family (publication)

EP 1892488 A2 20080227; JP 2008051439 A 20080306; JP 5292537 B2 20130918; KR 20080018795 A 20080228; US 2008053125 A1 20080306

DOCDB simple family (application)

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