

Title (en)

Air-conditioning installation containing a supercritical fluid

Title (de)

Klimaanlage, durch die ein superkritisches Fluid fließt

Title (fr)

Installation de climatisation parcourue par un fluide supercritique

Publication

**EP 1806548 B1 20110223 (FR)**

Application

**EP 07100075 A 20070103**

Priority

FR 0600058 A 20060104

Abstract (en)

[origin: FR2895787A1] The air conditioning system has a coolant circuit carrying a supercritical fluid and containing a compressor (14) with a control valve, a gas cooler (11), an expander (12) and an evaporator (13). It differs by incorporating a regulating module (40) that controls the compressor valve command signal during the system's starting phase so that the compressor's output pressure is maintained below the cut-off level. The regulating module calculates a current value for the command signal and compares it with a threshold value when the compressor is at minimal power.

IPC 8 full level

**F25B 9/00** (2006.01)

CPC (source: EP)

**F25B 9/008** (2013.01); **F25B 49/022** (2013.01); **F25B 2309/061** (2013.01); **F25B 2500/26** (2013.01); **F25B 2600/0271** (2013.01); **F25B 2700/1931** (2013.01); **F25B 2700/21161** (2013.01)

Cited by

US10107535B2; WO2011056371A3

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 NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

**EP 1806548 A1 20070711**; **EP 1806548 B1 20110223**; AT E499575 T1 20110315; DE 602007012602 D1 20110407; FR 2895787 A1 20070706; FR 2895787 B1 20130426

DOCDB simple family (application)

**EP 07100075 A 20070103**; AT 07100075 T 20070103; DE 602007012602 T 20070103; FR 0600058 A 20060104