

Title (en)  
Heating/cooling system

Title (de)  
Heiz- und /oder Kühlsystem

Title (fr)  
Système de chauffage et/ou de refroidissement

Publication  
**EP 1564506 A3 20070530 (EN)**

Application  
**EP 05250429 A 20050127**

Priority  
• JP 2004035409 A 20040212  
• JP 2004035411 A 20040212

Abstract (en)  
[origin: EP1564506A2] An object is to provide a heating/cooling system (100) capable of achieving reduction of power consumption, and enhancement of performance in a heating/cooling system usable in such a manner as to be switched to be hot/cold. The heating/cooling system having a storage chamber (1) usable in such a manner as to be switched to be hot/cold, comprises: a refrigerant circuit (10) comprising a compressor (11), a gas cooler (12), a pressure reducing device (16), an evaporator (17) and the like, containing carbon dioxide sealed as a refrigerant therein, and having a supercritical pressure on a high-pressure side; a radiator (14) through which the refrigerant flowing out of the gas cooler (12) flows before entering the pressure reducing device (16); and an air blower (22) which sends air through the gas cooler (12), the inside of the storage chamber (1) is heated by the radiator (14), the inside of the storage chamber (1) is cooled by the evaporator (17), and the air blower (22) is stopped in a case where the inside of the storage chamber (1) is heated by the radiator (14).

IPC 8 full level  
**F25B 9/00** (2006.01); **A47F 3/00** (2006.01); **A47F 3/04** (2006.01); **F25B 5/02** (2006.01); **F25B 29/00** (2006.01); **F25B 41/04** (2006.01); **F25D 11/02** (2006.01); **F25D 23/06** (2006.01); **F25B 1/10** (2006.01); **F25B 6/04** (2006.01); **F25B 40/00** (2006.01)

CPC (source: EP US)  
**A47F 3/001** (2013.01 - EP US); **A47F 3/0443** (2013.01 - EP); **F25B 5/02** (2013.01 - EP); **F25B 9/008** (2013.01 - EP); **F25B 29/003** (2013.01 - EP); **F25B 41/24** (2021.01 - EP US); **F25D 11/02** (2013.01 - EP); **F25D 23/069** (2013.01 - EP); **F25B 1/10** (2013.01 - EP); **F25B 6/04** (2013.01 - EP); **F25B 40/00** (2013.01 - EP); **F25B 2309/061** (2013.01 - EP); **F25B 2400/22** (2013.01 - EP)

Citation (search report)  
• [X] EP 1316450 A1 20030604 - BOSCH GMBH ROBERT [DE]  
• [X] WO 03051657 A1 20030626 - SINVENT AS [NO], et al

Cited by  
CN104654661A; CN109524746A; CN112545255A; WO2016156777A1

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

Designated extension state (EPC)  
AL BA HR LV MK YU

DOCDB simple family (publication)  
**EP 1564506 A2 20050817; EP 1564506 A3 20070530**

DOCDB simple family (application)  
**EP 05250429 A 20050127**