

Title (en)
REFRIGERANT SYSTEM WITH WATER HEATING

Title (de)
KÄLTEMITTELSYSTEM MIT WASSERHEIZUNG

Title (fr)
SYSTEME DE REFRIGERATION AVEC CHAUFFAGE D'EAU

Publication
EP 1886081 A4 20110608 (EN)

Application
EP 05746343 A 20050603

Priority
BR 2005000099 W 20050603

Abstract (en)
[origin: WO2006128264A1] A heat pump system (10) includes a compressor (20), a reversing valve (30), an outdoor heat exchanger (40) and an indoor heat exchanger (50) coupled via refrigerant lines (35, 45) in a conventional refrigeration circuit, and a refrigerant-to-water heat exchanger (60). In the air cooling with water heating mode, the air heating with water heating mode and the water heating only mode, water from a water reservoir (64), such as a storage tank or swimming pool, is passed through heat exchanger (60) in heat exchange relationship with refrigerant passing through an additional refrigerant line (27) that establishes a fluid flow path through the heat exchanger (60) into the refrigerant circuit intermediate the outdoor heat exchanger (40) and indoor heat exchanger (50). A refrigerant reservoir (70) may be provided for use in refrigerant charge control.

IPC 8 full level
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F25B 13/00 (2013.01 - EP US); **F25B 45/00** (2013.01 - EP US); **F25B 40/04** (2013.01 - EP US); **F25B 2313/004** (2013.01 - EP US); **F25B 2313/0314** (2013.01 - EP US); **F25B 2313/0315** (2013.01 - EP US); **F25B 2700/1931** (2013.01 - EP US); **F25B 2700/1933** (2013.01 - EP US); **F25B 2700/21151** (2013.01 - EP US); **F25B 2700/21152** (2013.01 - EP US)

Citation (search report)

- [A] US 5901563 A 19990511 - YARBROUGH MERRILL A [US], et al
- [A] JP S61186763 A 19860820 - SANYO ELECTRIC CO, et al
- See references of WO 2006128264A1

Designated contracting state (EPC)
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DOCDB simple family (publication)
WO 2006128264 A1 20061207; BR PI0520239 A2 20090915; CA 2574876 A1 20061207; CN 100549561 C 20091014; CN 101084404 A 20071205; EP 1886081 A1 20080213; EP 1886081 A4 20110608; JP 2008520945 A 20080619; MX 2007001455 A 20080311; US 2008197206 A1 20080821

DOCDB simple family (application)
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