

Title (en)
Heat pump assembly

Title (de)
Wärmepumpenanlage

Title (fr)
Installation de pompes à chaleur

Publication
EP 2187149 A3 20120118 (DE)

Application
EP 09175482 A 20091110

Priority
DE 102008043823 A 20081118

Abstract (en)
[origin: EP2187149A2] The system (1) has a closed coolant circuit comprising compressor units (8), heat-exchangers, a condenser (3), a collector (10), an expansion body (9) i.e. expansion valve, and an evaporator (5) where the exchangers are designed as a desuperheater-liquefier (2) and a sub-cooler (4). The sub-cooler and the evaporator are arranged in a successive manner in a flow direction of an outer fluid. The sub-cooler and the evaporator are integrated in housing. The sub-cooler and the evaporator are designed so that a heat source medium e.g. water, flows directly via the sub-cooler and the evaporator. The compressor units are connected parallel to each other. An independent claim is also included for a method for operating a heat pump system.

IPC 8 full level
F25B 30/02 (2006.01); **F25B 40/02** (2006.01); **F25B 5/02** (2006.01); **F25B 40/04** (2006.01)

CPC (source: EP)
F25B 30/02 (2013.01); **F25B 40/02** (2013.01); **F25B 5/02** (2013.01); **F25B 40/04** (2013.01); **F25B 2500/18** (2013.01)

Citation (search report)

- [X] WO 2004020918 A1 20040311 - MEISTER REMO BMS ENERGIEANLAGE [CH], et al
- [I] DE 202007017723 U1 20080320 - MEISTER REMO [CH]
- [Y] DE 202008002015 U1 20080529 - MEISTER REMO [CH]
- [Y] WO 2005073645 A1 20050811 - BMS ENERGIETECHNIK AG [CH], et al
- [A] US 5243837 A 19930914 - RADERMACHER REINHARD [US], et al

Cited by
MD4208C1; CN114935260A

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

Designated extension state (EPC)
AL BA RS

DOCDB simple family (publication)
EP 2187149 A2 20100519; EP 2187149 A3 20120118; DE 102008043823 A1 20100708; DE 102008043823 B4 20110512

DOCDB simple family (application)
EP 09175482 A 20091110; DE 102008043823 A 20081118