

Title (en)  
Heat pump

Title (de)  
Wärmepumpe

Title (fr)  
Pompe à chaleur

Publication  
**EP 2325579 A3 20150114 (EN)**

Application  
**EP 10251314 A 20100723**

Priority  
KR 20090112739 A 20091120

Abstract (en)  
[origin: EP2325579A2] Disclosed is a heat pump including: a refrigeration cycle unit 1 that includes a compressor 10 for compressing a coolant, a first heat exchanger 14 for condensing the coolant compressed in the compressor, an expansion mechanism 16 for expanding the coolant condensed in the first heat exchanger, and a second heat exchanger 18 for evaporating the coolant expanded in the expansion mechanism 16; and a booster module 2 that is connected to the refrigeration cycle unit 1, wherein the booster module 2 separates a gaseous coolant from the coolant flowing from the first heat exchanger 14 to the expansion mechanism 16, compresses the separated gaseous coolant, and then has the compressed gaseous coolant flow between the compressor 10 and the first heat exchanger 14.

IPC 8 full level  
**F25B 1/10** (2006.01); **F25B 13/00** (2006.01)

CPC (source: EP KR US)  
**F25B 1/10** (2013.01 - EP KR US); **F25B 13/00** (2013.01 - EP KR US); **F25B 30/02** (2013.01 - KR); **F25B 41/30** (2021.01 - KR); **F25B 43/02** (2013.01 - KR); **F25B 49/02** (2013.01 - KR); **F25B 2313/003** (2013.01 - EP KR US); **F25B 2339/047** (2013.01 - EP KR US); **F25B 2400/13** (2013.01 - EP KR US); **F25B 2400/23** (2013.01 - EP KR US)

Citation (search report)

- [XY] JP H06137615 A 19940520 - MATSUSHITA ELECTRIC IND CO LTD
- [Y] WO 2009086493 A2 20090709 - JOHNSON CONTROLS TECH CO [US], et al
- [X] CH 234315 A 19440930 - ESCHER WYSS MASCHF AG [CH]
- [X] EP 1980802 A1 20081015 - DAIKIN IND LTD [JP]
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Designated contracting state (EPC)  
AL 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

DOCDB simple family (publication)  
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DOCDB simple family (application)  
**EP 10251314 A 20100723**; CN 201010134499 A 20100316; KR 20090112739 A 20091120; KR 2010004791 W 20100721; US 84763210 A 20100730