

Title (en)
Air conditioner

Title (de)
Klimaanlage

Title (fr)
Dispositif de conditionnement d'air

Publication
EP 1645811 A3 20061102 (EN)

Application
EP 05256194 A 20051004

Priority
KR 20040079159 A 20041005

Abstract (en)
[origin: US2006070719A1] An air conditioner comprises: at least one outdoor unit having a compressor and an outdoor heat exchanger; an air process unit including a heat exchanger connected to the outdoor unit by a refrigerant pipe, in which the air is heat exchanged, and a blower fan blowing the heat exchanged air; and a duct having one side connected to the air process unit and another side connected to a plurality of rooms, and introducing to the room, the air blown after heat exchange. Accordingly, the refrigerant pipe is shortened, which reduces a pressure loss and a head loss. Also, oil discharged outside of the compressor together with the compressor refrigerant is easily recovered, and the amount of accumulated refrigerant is reduced, thereby reducing the risk of suffocation due to leakage of a refrigerant.

IPC 8 full level
F24F 3/06 (2006.01); **F25B 13/00** (2006.01); **F24F 1/00** (2011.01)

CPC (source: EP KR US)
F24F 1/00075 (2019.01 - EP US); **F24F 1/26** (2013.01 - EP US); **F24F 1/28** (2013.01 - KR); **F24F 1/32** (2013.01 - EP US); **F24F 3/001** (2013.01 - EP US); **F24F 3/065** (2013.01 - EP US); **F24F 5/00** (2013.01 - KR); **F25B 13/00** (2013.01 - EP US); **F24F 2221/54** (2013.01 - EP US); **F25B 25/005** (2013.01 - EP US); **F25B 2313/006** (2013.01 - EP US); **F25B 2313/007** (2013.01 - EP US); **F25B 2313/0231** (2013.01 - EP US)

Citation (search report)

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- [X] US 5317907 A 19940607 - SHIMIZU KEIICHIRO [JP], et al
- [A] US 2004045699 A1 20040311 - NOAH NORMAN CHESTER [US]
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- [X] PATENT ABSTRACTS OF JAPAN vol. 017, no. 395 (M - 1451) 23 July 1993 (1993-07-23)

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

Designated extension state (EPC)
AL BA HR MK YU

DOCDB simple family (publication)
US 2006070719 A1 20060406; CN 1757979 A 20060412; EP 1645811 A2 20060412; EP 1645811 A3 20061102; KR 100619746 B1 20060912; KR 20060030331 A 20060410

DOCDB simple family (application)
US 24077605 A 20051003; CN 200510107669 A 20050929; EP 05256194 A 20051004; KR 20040079159 A 20041005