

Title (en)
Unitary air conditioning system

Title (de)
Einheitliche Klimaanlage

Title (fr)
Dispositif de conditionnement d'air unitaire

Publication
EP 1628080 B1 20150715 (EN)

Application
EP 05252195 A 20050407

Priority
KR 20040064390 A 20040816

Abstract (en)
[origin: EP1628080A2] A unitary air conditioning system comprises an outdoor unit (110) including a compressor (111) for compressing refrigerant, an outdoor heat exchanger (113) for heat exchange of refrigerant, and an expander connected to the outdoor heat exchanger, for expanding refrigerant; a duct installed in each zone of a building; a plurality of central blower units (120), each unit having a heat exchanger (123) connected to the outdoor unit by a refrigerant pipe (150) and a blower for supplying the air heat-exchanged by the heat exchanger to the duct; and a cooling/heating control unit for selectively distributing a refrigerant from the outdoor unit (110) toward the heat exchangers of the plurality of central blower units (120) and controlling cooling or heating operation for each zone of the building. Accordingly, the plurality of blower units are systematically operated according to a load of each zone inside the building, so that the cooling or heating operation can be effectively performed on each zone.

IPC 8 full level
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F24F 1/0003 (2013.01 - KR); **F24F 3/001** (2013.01 - EP US); **F24F 3/065** (2013.01 - EP US); **F24F 11/50** (2017.12 - KR); **F24F 11/63** (2017.12 - KR); **F24F 2110/10** (2017.12 - KR); **F24F 2221/54** (2013.01 - EP KR US); **F25B 2313/023** (2013.01 - KR); **F25B 2313/0314** (2013.01 - KR)

Citation (examination)

- JP H03164647 A 19910716 - MITSUBISHI ELECTRIC CORP
- WO 9735154 A1 19970925 - JOHNSON SERVICE CO [US]
- JP H0571820 A 19930323 - NIPPON DENSO CO

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