

Title (en)
AIR CONDITIONER

Title (de)
KLIMAANLAGE

Title (fr)
CLIMATISEUR

Publication
EP 2667109 B1 20200506 (EN)

Application
EP 12736171 A 20120117

Priority
• JP 2011006806 A 20110117
• JP 2012050871 W 20120117

Abstract (en)
[origin: EP2667109A1] In order to detect abnormalities in a valve mechanism, this indoor unit has an indoor heat exchanger disposed inside the indoor unit, and a radiation panel disposed on the outer surface of the indoor unit. A refrigerant circuit connecting the indoor unit and an outdoor unit has: a principal channel on which an outdoor motor-operated valve (64), an outdoor heat exchanger, and a compressor (60) are disposed in that order; a first channel on which the indoor heat exchanger is disposed; and a second channel on which the radiation panel is disposed. The first channel, during heating operation, connects a branching section disposed downstream side of the compressor (60) on the principal channel, and a merging section disposed upstream side of the outdoor motor-operated valve (64). The second channel connects the branching section and the merging section to the first channel in parallel. An indoor motor-operated valve (23) is disposed on the second channel between the radiation panel and the merging section. In addition, an abnormality detector (73) for detecting abnormalities that occur in the indoor motor-operated valve (23) is provided.

IPC 8 full level
F24F 1/0047 (2019.01); **F25B 13/00** (2006.01); **F25B 49/02** (2006.01)

CPC (source: EP US)
F24F 1/0047 (2019.01 - EP US); **F24F 5/0089** (2013.01 - EP US); **F24F 11/83** (2017.12 - EP); **F24F 11/84** (2017.12 - EP US); **F25B 13/00** (2013.01 - EP); **F25B 41/20** (2021.01 - EP US); **F25B 41/24** (2021.01 - EP US); **F25B 49/005** (2013.01 - EP); **F25B 2313/006** (2013.01 - EP); **F25B 2313/0213** (2013.01 - EP); **F25B 2313/02741** (2013.01 - EP); **F25B 2313/0314** (2013.01 - EP)

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EP 2667109 A1 20131127; **EP 2667109 A4 20170927**; **EP 2667109 B1 20200506**; AU 2012207956 A1 20130905; AU 2012207956 B2 20150430; CN 103314261 A 20130918; CN 103314261 B 20151209; ES 2806647 T3 20210218; JP 2012163314 A 20120830; JP 5115667 B2 20130109; WO 2012099128 A1 20120726

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