

Title (en)
AIR-CONDITIONING DEVICE

Title (de)
KLIMATISIERUNGSVORRICHTUNG

Title (fr)
DISPOSITIF DE CLIMATISATION

Publication
EP 3252401 A4 20180228 (EN)

Application
EP 16743227 A 20160121

Priority
• JP 2015016005 A 20150129
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Abstract (en)
[origin: EP3252401A1] An object of the present invention is to provide an air conditioning apparatus allowing an indoor heat exchanger to function as a radiator for refrigerant to perform a heating operation and enabling detection of an accurate saturation temperature even if liquid pooling occurs in an operational state with circulation amounts in a low range. Even when the compressor (12) operates at a lower number of compressor rotations to output a minimum heating capacity to reduce a circulation amount of refrigerant, since liquid pooling does not occur above a height-wise center of the indoor heat exchanger (32) or the distributor body (81a), the air conditioning apparatus (10) enables the refrigerant temperature sensor (183) mounted at the above described region to detect an accurate saturation temperature. Consequently, the likelihood of hindrance of subcooling control is removed, so that the control of opening of an electric valve in the conventional manner needs not to be performed only for the removal of liquid pooling. Of course, no pressure sensor is needed.

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F24F 11/89 (2017.12 - US); **F25B 49/00** (2013.01 - EP); **F25B 13/00** (2013.01 - EP); **F25B 2313/0314** (2013.01 - EP)

Citation (search report)
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• [I] WO 2009038624 A1 20090326 - EMERSON CLIMATE TECHNOLOGIES [US], et al
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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 RS SE SI SK SM TR

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