

Title (en)
AIR-CONDITIONING APPARATUS AND METHOD FOR OPERATING THE SAME

Title (de)
KLIMAANLAGE UND VERFAHREN ZU DEREN BETRIEB

Title (fr)
APPAREIL DE CLIMATISATION ET SON PROCÉDÉ DE FONCTIONNEMENT

Publication
EP 3431903 A1 20190123 (EN)

Application
EP 18183852 A 20180717

Priority
JP 2017140883 A 20170720

Abstract (en)
An air-conditioning apparatus is provided that can prevent a shortage of lubricating oil supplied to a sliding part of a compressor. The air-conditioning apparatus includes a compressor 21 placed inside an outdoor unit 2 and compressing a refrigerant, an oil supply pump supplying lubricating oil to a sliding part in accordance with a rotational speed of the compressor 21, a bypass pipe 57 bypassing an outdoor heat exchanger 24 and an indoor heat exchanger 71 to connect a discharge side and a suction side of the compressor 21, a bypass valve 58 provided in the bypass pipe 57, and a control unit 10 controlling operation of the bypass valve 58, wherein the control unit 10 opens the bypass valve 58 when a low-pressure refrigerant pressure on the suction side is greater than or equal to a predetermined value.

IPC 8 full level
F25B 31/00 (2006.01); **F25B 49/02** (2006.01)

CPC (source: EP)
F25B 31/004 (2013.01); **F25B 49/022** (2013.01); **F25B 2600/0261** (2013.01)

Citation (applicant)
WO 2012042573 A1 20120405 - MITSUBISHI ELECTRIC CORP [JP], et al

Citation (search report)
• [Y] EP 2375192 A2 20111012 - MITSUBISHI HEAVY IND LTD [JP]
• [Y] EP 2679930 A1 20140101 - HITACHI LTD [JP]
• [Y] WO 0042366 A1 20000720 - YORK INT CORP [US]
• [Y] US 2015135751 A1 20150521 - TAMAKI SHOGO [JP], et al
• [Y] GB 2057659 A 19810401 - CARRIER CORP
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CN110657550A; CN111780382A

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 RS SE SI SK SM TR

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