

Title (en)
AIR CONDITIONER

Title (de)
KLIMAANLAGE

Title (fr)
CLIMATISEUR

Publication
EP 3705808 A4 20201118 (EN)

Application
EP 18873146 A 20180927

Priority
• JP 2017209494 A 20171030
• JP 2018036016 W 20180927

Abstract (en)
[origin: EP3705808A1] An air conditioner includes a compressor, the operation frequency of which is variable, and a controller for executing compressor protection control to raise the operation frequency of the compressor to a required operation frequency at the start of the cooling or heating operation. The compressor protection control includes a first protection control and a second protection control. In the first protection control, the operation frequency of the compressor is controlled such that the time period from the activation of the compressor to the time at which the operation frequency reaches the required operation frequency should become relatively long. In the second protection control, the operation frequency of the compressor is controlled such that the time period from the activation of the compressor to the time at which the operation frequency reaches the required operation frequency should be relatively short. The control unit executes the second protection control when the predetermined condition is satisfied at the time of executing the compressor protection control.

IPC 8 full level
F25B 1/00 (2006.01); **F24F 11/86** (2018.01); **F25B 49/00** (2006.01); **F25B 49/02** (2006.01)

CPC (source: EP)
F24F 11/86 (2017.12); **F25B 49/005** (2013.01); **F25B 49/022** (2013.01); **F25B 13/00** (2013.01); **F25B 2500/06** (2013.01); **F25B 2500/26** (2013.01); **F25B 2600/0253** (2013.01); **F25B 2600/07** (2013.01); **F25B 2700/2104** (2013.01); **F25B 2700/2106** (2013.01); **F25B 2700/21152** (2013.01)

Citation (search report)
• [XII] JP WO2015140871 A1 20170406
• [XI] JP H04268164 A 19920924 - SHARP KK
• [XAI] JP 2014047935 A 20140317 - MITSUBISHI ELECTRIC CORP
• See references of WO 2019087630A1

Cited by
US11927380B2

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

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 3705808 A1 20200909; **EP 3705808 A4 20201118**; **EP 3705808 B1 20220803**; CN 111279138 A 20200612; CN 111279138 B 20210611; JP 2019082279 A 20190530; JP 6601472 B2 20191106; WO 2019087630 A1 20190509

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EP 18873146 A 20180927; CN 201880069422 A 20180927; JP 2017209494 A 20171030; JP 2018036016 W 20180927