

Title (en)
AIR CONDITIONER AND CONTROL METHOD THEREOF

Title (de)
KLIMAANLAGE UND STEUERUNGSVERFAHREN DAFÜR

Title (fr)
CLIMATISEUR ET SON PROCÉDÉ DE COMMANDE

Publication
EP 3527903 A4 20200624 (EN)

Application
EP 17863047 A 20170926

Priority
• CN 201610903627 A 20161017
• CN 2017103464 W 20170926

Abstract (en)
[origin: EP3527903A1] Provided are an air conditioner and a control method thereof. The control method includes following steps: controlling a compressor (10) of an air conditioner to be in an operating state or a shutdown state according to a superheat degree of injected vapor of the compressor (10) and a continuous duration of the superheat degree; controlling the compressor (10) to be in a shutdown state for maintenance according to a number of shutdown times of the compressor (10), so as to maintain a gas supply pipeline (50) of the compressor (10). By adopting such a configuration, an operating condition of the compressor (10) can be accurately and effectively determined, which enables the compressor (10) to be maintained timely, thereby preventing the compressor (10) from being damaged as a result of operating in a severe condition, and enhancing operation reliability of the compressor (10) and the air conditioner.

IPC 8 full level
F24F 11/00 (2018.01); **F24F 1/00** (2019.01); **F24F 11/30** (2018.01); **F24F 11/62** (2018.01); **F24F 11/70** (2018.01); **F24F 11/89** (2018.01); **F25B 41/40** (2021.01); **F25B 49/02** (2006.01); **F24F 110/00** (2018.01)

CPC (source: CN EP US)
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Citation (search report)
• [XAI] US 6578373 B1 20030617 - BARBIER WILLIAM J [US]
• [X] EP 2792974 A1 20141022 - LG ELECTRONICS INC [KR]
• [A] EP 2195539 A2 20100616 - EMERSON CLIMATE TECHNOLOGIES [US]
• See also references of WO 2018072601A1

Designated contracting state (EPC)
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DOCDB simple family (publication)
EP 3527903 A1 20190821; **EP 3527903 A4 20200624**; **EP 3527903 B1 20240410**; CN 106403193 A 20170215; CN 106403193 B 20181207; US 2019242603 A1 20190808; WO 2018072601 A1 20180426

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