

Title (en)

AIR CONDITIONER CLEANING DEVICE AND CLEANING METHOD, AND AIR CONDITIONER

Title (de)

REINIGUNGSVORRICHTUNG FÜR EINE KLIMAAANLAGE, REINIGUNGSVERFAHREN UND KLIMAAANLAGE

Title (fr)

DISPOSITIF DE NETTOYAGE ET PROCÉDÉ DE NETTOYAGE DE CLIMATISEUR, ET CLIMATISEUR

Publication

**EP 3879192 A4 20220406 (EN)**

Application

**EP 19920963 A 20190930**

Priority

- CN 201910233484 A 20190326
- CN 2019109433 W 20190930

Abstract (en)

[origin: EP3879192A1] The present application provides an air conditioner cleaning device, including a fresh air device (1). The fresh air device (1) is capable of introducing fresh air into a room, and is capable of supplying air to the heat exchanger. The present application can be used for self-cleaning of an outdoor heat exchanger, with high cleaning efficiency and good cleaning effect. The fresh air device has a dual-passage selective air-introduction, making full use of the temperature difference between the indoor air and the outdoor air, speeding up the frosting and defrosting processes, and improving the self-cleaning efficiency of the air conditioner. The humidification and cooling of the frosting airflow and the heating of the defrosting airflow are realized on the basis of the fresh air device, which can speed up the frosting and defrosting processes and improve the self-cleaning efficiency of the air conditioner. It can be used for self-cleaning of both the indoor heat exchanger and the outdoor heat exchanger, so the functions are completed.

IPC 8 full level

**F24F 1/0035** (2019.01); **F24F 1/0087** (2019.01); **F24F 1/42** (2011.01); **F24F 13/02** (2006.01); **F24F 13/22** (2006.01)

CPC (source: EP)

**F24F 1/0035** (2019.02); **F24F 1/0087** (2019.02); **F24F 11/70** (2018.01); **F24F 13/22** (2013.01); **F24F 2110/10** (2018.01); **F24F 2110/12** (2018.01); **F24F 2221/22** (2013.01)

Citation (search report)

- [X1] JP H01300130 A 19891204 - TOSHIBA CORP
- [IY] CN 106679111 A 20170517 - SHENZHEN SKYWORTH AIR CONDITIONING TECH CO LTD
- [Y] CN 106765926 A 20170531 - WUHAN REFRIGERATION EQUIPMENT CO LTD OF MIDEA GROUP, et al
- See also references of WO 2020192070A1

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 3879192 A1 20210915**; **EP 3879192 A4 20220406**; **EP 3879192 B1 20240710**; CN 109945313 A 20190628; CN 109945313 B 20240315; WO 2020192070 A1 20201001

DOCDB simple family (application)

**EP 19920963 A 20190930**; CN 201910233484 A 20190326; CN 2019109433 W 20190930