

Title (en)

SLIDING DOOR DEVICE AND AIR CONDITIONER

Title (de)

SCHIEBETÜRVORRICHTUNG UND KLIMAANLAGE

Title (fr)

DISPOSITIF DE PORTE COULISSANTE ET CLIMATISEUR

Publication

**EP 3745043 A4 20211027 (EN)**

Application

**EP 18902044 A 20181229**

Priority

- CN 201820141544 U 20180127
- CN 2018125512 W 20181229

Abstract (en)

[origin: EP3745043A1] A sliding door device and an air conditioner are provided in the invention, which relate to the field of household appliances. The sliding door device includes a sliding plate assembly and a sliding plate assembly driving structure. The sliding plate assembly driving structure includes a front panel liner and a driving device, wherein the front panel liner is slidably connected to the sliding plate assembly, a drive mounting structure and an air outlet are disposed on the front panel liner, the driving device is mounted to the front panel liner through the drive mounting structure and cooperates with the sliding plate assembly, and the driving device is used to drive the sliding plate assembly to slide relative to the front panel liner for shielding the air outlet or opening the air outlet. A first guide sliding structure is disposed on the front panel liner, a second guide sliding structure is disposed on the sliding plate assembly, and the first guide sliding structure slidably cooperates with the second guide sliding structure. The first guide sliding structure and the second guide sliding structure are disposed at one side portion on a long side of the air outlet. The sliding door device and the air conditioner can effectively prevent abnormal noise and jitter during the process of opening or closing the air outlet by a sliding door device, so as to smooth the operation.

IPC 8 full level

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CPC (source: EP RU)

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Citation (search report)

- [X] WO 2008154809 A1 20081224 - GREE ELECTRIC APPLIANCES INC [CN], et al
- [X] EP 3193087 A1 20170719 - QINGDAO HAIER AIR CONDITIONER GENERAL CORP LTD [CN]
- [X] WO 2008148286 A1 20081211 - GREE ELECTRIC APPLIANCES INC [CN], et al
- [X] EP 3064852 A1 20160907 - SAMSUNG ELECTRONICS CO LTD [KR]
- [X] WO 2009015551 A1 20090205 - GREE ELECTRIC APPLIANCES INC [CN], et al
- See references of WO 2019144774A1

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