

Title (en)

AXIAL FAN ASSEMBLY AND MOTOR HOME AIR-CONDITIONER USING SAME

Title (de)

AXIALGEBLÄSEANORDNUNG UND WOHNMOBILKLIMAANLAGE DAMIT

Title (fr)

ENSEMBLE VENTILATEUR AXIAL ET CLIMATISEUR DE CAMPING-CAR L'UTILISANT

Publication

**EP 3401546 A4 20190828 (EN)**

Application

**EP 16882846 A 20161228**

Priority

- CN 201610012779 A 20160107
- CN 201610013161 A 20160107
- CN 2016000715 W 20161228

Abstract (en)

[origin: EP3401546A1] Disclosed are an axial fan assembly and a motor home air-conditioner using same. The motor home air-conditioner comprises an air-conditioner body (1). A heat exchanging system, a central air-inlet channel (2) and a peripheral air-outlet channel (3) are arranged in the air-conditioner body (1). The heat exchanging system comprises an evaporator assembly (4) distributed in a ring and an axial fan assembly (5) located within the evaporator assembly (4). The axial fan assembly (5) comprises an axial fan (6) and a skeleton-type blast ring (7). The axial fan (6) is mounted within the skeleton-type blast ring (7). The skeleton-type blast ring (7) comprises a drainage pressurized region (71) and an airflow diffusion region (72) for air to flow out. The airflow diffusion region (72) comprises a circumferential air-outlet region (721) and an axial air-outlet region (722). The present axial fan assembly not only meets the requirement of strength in installation, but also changes the direction of airflow blown by the axial fan to achieve the blowing effect of mixed windflows

IPC 8 full level

**F04D 17/02** (2006.01); **F04D 29/54** (2006.01); **F24F 1/0014** (2019.01); **F24F 1/0029** (2019.01)

CPC (source: EP)

**F04D 29/541** (2013.01); **F24F 1/0029** (2013.01)

Citation (search report)

- [A] DE 826925 C 19520107 - GEN MOTORS CORP
- [A] DE 2710339 A1 19780914 - KLOECKNER HUMBOLDT DEUTZ AG
- [A] US 2013259667 A1 20131003 - HUANG YUNG-CHING [TW]
- See references of WO 2017117699A1

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

DOCDB simple family (publication)

**EP 3401546 A1 20181114**; **EP 3401546 A4 20190828**; AU 2016385149 A1 20171102; AU 2016385149 B2 20190829;  
WO 2017117699 A1 20170713

DOCDB simple family (application)

**EP 16882846 A 20161228**; AU 2016385149 A 20161228; CN 2016000715 W 20161228