

Title (en)

AIR CONDITIONER OIL SEPARATOR AND CONDENSER, AND AIR CONDITIONER

Title (de)

ÖLABSCHEIDER EINER KLIMAANLAGE SOWIE KONDENSATORR UND KLIMAANLAGE

Title (fr)

SÉPARATEUR ET CONDENSEUR D'HUILE DE CLIMATISEUR, ET CLIMATISEUR

Publication

**EP 3677858 A4 20210526 (EN)**

Application

**EP 18892147 A 20180820**

Priority

- CN 201711391600 A 20171221
- CN 2018101326 W 20180820

Abstract (en)

[origin: EP3677858A1] Some embodiments of the present disclosure provide an air conditioner oil separator, a condenser, and an air conditioner. The air conditioner oil separator includes: a gas inlet (2) for introducing a refrigerant to be separated, a gas outlet for outputting a separated refrigerant, and a filter component (3) disposed at the gas outlet. The filter component (3) includes: a first filter area (31); a second filter area (32), which is closer to the gas inlet (2) than the first filter area (31); and a third filter area (33), which is closer to the gas inlet (2) than the second filter region (32). A separation efficiency of the first filter area (31) for the refrigerant is lower than a separation efficiency of the second filter area (32) for the refrigerant; and/or, a refrigerant separation efficiency of the third filter area (33) for the refrigerant is lower than the separation efficiency of the second filter area (32) for the refrigerant. Corresponding filter areas are provided according to airflow pressures at different positions, thereby alleviating a problem of waste caused by excess capacity of the filter component, and facilitating uniformity of gas pressures in different areas of the gas outlet.

IPC 8 full level

**F25B 43/00** (2006.01); **F25B 39/04** (2006.01); **F25B 43/02** (2006.01)

CPC (source: CN EP US)

**F25B 39/04** (2013.01 - CN EP); **F25B 43/003** (2013.01 - CN EP US); **F25B 43/02** (2013.01 - EP); **F25B 2339/046** (2013.01 - CN EP); **F25B 2339/047** (2013.01 - EP); **F25B 2400/23** (2013.01 - CN EP US)

Citation (search report)

- [X] CN 104833139 B 20171117
- [X] CN 106440574 A 20170222 - GREE ELECTRIC APPLIANCES INC ZHUHAI
- [I] CN 102221274 A 20111019 - JIANGNAN LMART EQUIPMENT MFG ZHANGJIAGANG CO LTD
- See references of WO 2019119839A1

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 3677858 A1 20200708**; **EP 3677858 A4 20210526**; **EP 3677858 B1 20230405**; CN 107940833 A 20180420; US 2020248940 A1 20200806; WO 2019119839 A1 20190627

DOCDB simple family (application)

**EP 18892147 A 20180820**; CN 201711391600 A 20171221; CN 2018101326 W 20180820; US 201816652781 A 20180820