

Title (en)

DEVICE FOR DISTRIBUTING A REFRIGERANT INSIDE A COLLECTOR BOX OF A HEAT EXCHANGER FOR AN AIR-CONDITIONING INSTALLATION OF A VEHICLE

Title (de)

VORRICHTUNG ZUR VERTEILUNG EINES KÜHLMITTELS IN EINEM SAMMELKASTEN EINES WÄRMEAUSTAUSCHERS FÜR EINE KLIMAANLAGE EINES FAHRZEUGS

Title (fr)

DISPOSITIF DE DISTRIBUTION D'UN FLUIDE RÉFRIGÉRANT À L'INTÉRIEUR D'UNE BOÎTE COLLECTRICE D'UN ÉCHANGEUR THERMIQUE POUR UNE INSTALLATION DE CONDITIONNEMENT D'AIR D'UN VÉHICULE

Publication

**EP 3548827 A1 20191009 (FR)**

Application

**EP 17817792 A 20171130**

Priority

- FR 1661735 A 20161130
- FR 2017053308 W 20171130

Abstract (en)

[origin: WO2018100305A1] The invention relates to a device (18) for distributing a refrigerant (FR) inside a collector box (7) of a heat exchanger (5). The distribution device (18) comprises at least one duct (14) extending along a longitudinal axis (A1) defining the longitudinal extension direction of the distribution device (18). The first duct (14) includes, at a first one of the longitudinal ends (15) thereof, an intake mouth (10) for allowing refrigerant (FR) to enter into the first duct (14) and is closed at the second longitudinal end (16) thereof. The first duct (14) includes, along at least one portion of the longitudinal axis (A1) thereof, a plurality of openings (17) for discharging refrigerant (FR) from the first duct (14). At least two openings (17), adjacent along the longitudinal axis (A1) of the first duct (14), are tilted towards the second end (16) of the first duct (14), the opening (17a) thereof towards the inside of the first duct (14) being closer to the first end (15) thereof than to the opening (17b) thereof towards the outside of the first duct (14).

IPC 8 full level

**F28F 9/02** (2006.01)

CPC (source: EP)

**F28F 9/0273** (2013.01)

Citation (search report)

See references of WO 2018100305A1

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)

**FR 3059404 A1 20180601**; **FR 3059404 B1 20190913**; CN 110168304 A 20190823; CN 110168304 B 20210511; EP 3548827 A1 20191009; EP 3548827 B1 20201216; WO 2018100305 A1 20180607

DOCDB simple family (application)

**FR 1661735 A 20161130**; CN 201780082989 A 20171130; EP 17817792 A 20171130; FR 2017053308 W 20171130