

Title (en)

DEVICE FOR MIXING A REFRIGERANT FLUID INSIDE A COLLECTOR BOX OF A HEAT EXCHANGER

Title (de)

VORRICHTUNG ZUM MISCHEN EINER KÜHLFLÜSSIGKEIT IN EINEM SAMMELKASTEN EINES WÄRMEAUSTAUSCHERS

Title (fr)

DISPOSITIF DE MIXAGE D'UN FLUIDE RÉFRIGÉRANT À L'INTÉRIEUR D'UNE BOÎTE COLLECTRICE D'UN ÉCHANGEUR THERMIQUE

Publication

EP 3548826 A1 20191009 (FR)

Application

EP 17817791 A 20171130

Priority

- FR 1661756 A 20161130
- FR 2017053303 W 20171130

Abstract (en)

[origin: WO2018100301A1] The invention relates to a mixing device (18) intended for mixing a gaseous phase with a liquid phase of a refrigerant (FR). The mixing device (18) is configured to be accommodated inside a collector box (7) of a heat exchanger (5). The mixing device (18) comprises a duct (14) with a longitudinal axis (A1) provided with an intake mouth (10) for taking refrigerant (FR) into the duct (14) and at least one opening (17) for spraying refrigerant (FR) out of the duct (14). The duct (14) also comprises a mixing member (19a, 19b) arranged on an inner surface (14c) of the duct (14) and capable of modifying the flow of the refrigerant (FR) circulating inside the duct (14).

IPC 8 full level

F28F 9/02 (2006.01); **F25B 39/02** (2006.01); **F28F 13/12** (2006.01)

CPC (source: EP)

F25B 39/028 (2013.01); **F28F 9/0273** (2013.01); **F28F 9/028** (2013.01); **F28F 13/12** (2013.01)

Citation (search report)

See references of WO 2018100301A1

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 3059407 A1 20180601; **FR 3059407 B1 20191018**; CN 110214257 A 20190906; CN 110214257 B 20210817; EP 3548826 A1 20191009; EP 3548826 B1 20230524; WO 2018100301 A1 20180607

DOCDB simple family (application)

FR 1661756 A 20161130; CN 201780083497 A 20171130; EP 17817791 A 20171130; FR 2017053303 W 20171130