

Title (en)

HEAT EXCHANGER, PARTICULARLY A INNER CONDENSER FOR HEAT PUMP HVAC SYSTEMS

Title (de)

WÄRMETAUSCHER, INSBESONDERE EIN INNERER KONDENSATOR FÜR WÄRMEPUMPEN-KLIMASYSTEME

Title (fr)

ECHANGEUR DE CHALEUR, NOTAMMENT CONDENSEUR INTERIEUR POUR SYSTEMES HVAC DE POMPE A CHALEUR

Publication

**EP 4033189 A1 20220727 (EN)**

Application

**EP 22151927 A 20220118**

Priority

IT 202100000920 A 20210120

Abstract (en)

A heat exchanger comprises a first heat exchange row (10) and a second heat exchange row (20). Two header tanks (42, 52) are provided, wherein each header tank (42, 52) comprises two lateral edges (42a-42b, 52a-52b) fixedly connected to respective lateral edges of a relevant header plate (41, 51), and an intermediate edge (42c, 52c) fixedly connected to an intermediate portion (41c, 51c) of the relevant header plate (41, 51) in order to separate the respective headers of the first heat exchange row (10) and of the second heat exchange row (20) from each other. The intermediate edge (42c, 52c) of one of the header tanks has a plurality of recesses (93) which establish fluid communication between the respective headers of the first heat exchange row (10) and of the second heat exchange row (20).

IPC 8 full level

**F28D 1/02** (2006.01); **F28F 9/02** (2006.01)

CPC (source: EP)

**F28D 1/05391** (2013.01); **F28F 9/0204** (2013.01); **F28F 9/0214** (2013.01); **F28F 9/0224** (2013.01); **F28D 1/0435** (2013.01);  
**F28D 2021/0084** (2013.01); **F28F 2275/045** (2013.01); **F28F 2275/122** (2013.01)

Citation (search report)

- [A] EP 1298401 A2 20030402 - HALLA CLIMATE CONTROL CORP [KR]
- [A] US 2013312455 A1 20131128 - JEON YOUNG-HA [KR], et al
- [A] EP 1998133 A1 20081203 - CALSONIC KANSEI CORP [JP]
- [A] EP 3739284 A1 20201118 - VALEO AUTOSYSTEMY SP ZOO [PL]
- [A] US 2018029446 A1 20180201 - JEON YOUNG-HA [KR], et al

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)

**EP 4033189 A1 20220727; EP 4033189 B1 20231129; ES 2970724 T3 20240530; IT 202100000920 A1 20220720; PL 4033189 T3 20240422**

DOCDB simple family (application)

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