

Title (en)

HEAT EXCHANGER SUCH AS AN INTERNAL EXCHANGER FOR A MOTOR VEHICLE AIR-CONDITIONING SYSTEM AND SYSTEM INCLUDING SAME

Title (de)

WÄRMETAUSCHER WIE ETWA EIN INTERNER TAUSCHER FÜR EIN FAHRZEUGKLIMATISIERUNGSSYSTEM SOWIE SYSTEM DAMIT

Title (fr)

ECHANGEUR THERMIQUE TEL QU'UN ECHANGEUR INTERNE POUR CIRCUIT DE CLIMATISATION DE VEHICULE AUTOMOBILE ET CIRCUIT L'INCORPORANT

Publication

EP 3172516 A1 20170531 (FR)

Application

EP 14759243 A 20140725

Priority

FR 2014051942 W 20140725

Abstract (en)

[origin: WO2016012664A1] The invention relates to a heat exchanger with an outer tube carrying a low-pressure fluid and containing at least one pipe carrying a high-pressure fluid, such as an inner heat exchanger for a motor vehicle air-conditioning system, and such an air-conditioning system including said inner heat exchanger. Said heat exchanger (Ei1) comprises: an outer tube (10) having a longitudinal axis of symmetry (X), a length measured along said axis, and being suitable for carrying a low-pressure fluid (BP); and at least one pipe (20A) which is mounted radially inside the outer tube and which has a plurality of longitudinal channels suitable for carrying a high-pressure fluid (HP), the exchanger including soundproofing means capable of attenuating the noise transmitted by the low-pressure fluid. According to the invention, said means are at least partially formed by said at least one pipe twisted and/or wound around and along said axis over more than 50 % of said length.

IPC 8 full level

F28D 7/02 (2006.01); **F25B 40/00** (2006.01); **F28D 7/06** (2006.01); **F28D 7/08** (2006.01); **F28F 1/02** (2006.01)

CPC (source: EP)

F28D 7/024 (2013.01); **F28D 7/06** (2013.01); **F28D 7/08** (2013.01); **F28F 1/022** (2013.01); **F28F 1/025** (2013.01); **F28F 2265/28** (2013.01); **F28F 2265/30** (2013.01)

Citation (search report)

See references of WO 2016012664A1

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)

WO 2016012664 A1 20160128; BR 112017001575 A2 20180130; BR 112017001575 B1 20210119; CN 106574824 A 20170419; CN 106574824 B 20190517; EP 3172516 A1 20170531; EP 3172516 B1 20180530

DOCDB simple family (application)

FR 2014051942 W 20140725; BR 112017001575 A 20140725; CN 201480081367 A 20140725; EP 14759243 A 20140725