Title (en)

Internal heat exchanger for an automobile air-conditioning circuit, such circuit and method of connecting two connectors to this exchanger

Title (de)

Interner Wärmetauscher für einen Klimaanlagenschaltkreis eines Kraftfahrzeugs, entsprechender Schaltkreis und entsprechendes Anschlussverfahren von zwei Anschlüssen an diesen Wärmetauscher

Title (fr)

Echangeur thermique interne pour circuit de climatisation de véhicule automobile, un tel circuit et procédé de raccordement de deux connecteurs à cet échangeur

Publication

EP 1985945 B1 20091118 (FR)

Application

EP 08290389 A 20080421

Priority

FR 0703101 A 20070427

Abstract (en)

[origin: EP1985945A1] The exchanger (E) has an internal channel (11) and a radial external channel (21) for passing fluid from high and low pressure portions, respectively. An end (E1) of the exchanger is equipped with low pressure and high pressure female connectors (30, 40), which defines two passage ducts (31, 41) for fluid communicating with channels in a sealed manner. The ducts permit symmetric axes (32, 42) with respect to the corresponding channels, so that the connectors are positioned on the exchanger angularly with respect to each other, before soldering and welding the connectors on the exchanger. An independent claim is included for a method for connecting the low and high pressure female connectors to the ends of a coaxial internal heat exchanger.

IPC 8 full level

F25B 9/00 (2006.01); **F28D 7/10** (2006.01); **F28F 1/16** (2006.01); **F28F 9/04** (2006.01)

CPC (source: EP)

F25B 40/00 (2013.01); **F28D 7/106** (2013.01); **F28F 1/16** (2013.01); **F28F 9/0246** (2013.01); F25B 9/008 (2013.01); F25B 2309/061 (2013.01)

Cited by

CN112874263A; EP2333472A1; FR2953917A1; DE102011108905B4; WO2012092454A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

DOCDB simple family (publication)

EP 1985945 A1 20081029; **EP 1985945 B1 20091118**; AT E449298 T1 20091215; DE 602008000283 D1 20091231; FR 2915561 A1 20081031; FR 2915561 B1 20090626

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EP 08290389 A 20080421; AT 08290389 T 20080421; DE 602008000283 T 20080421; FR 0703101 A 20070427