

Title (en)

Heat exchanger especially for an air conditioning system of a vehicle

Title (de)

Wärmetauscher, insbesondere für ein Klimaanlage eines Fahrzeugs

Title (fr)

Échangeur de chaleur, en particulier pour un système climatiseur de véhicule

Publication

EP 2431698 A1 20120321 (EN)

Application

EP 11181723 A 20110916

Priority

IT TO20100759 A 20100916

Abstract (en)

A heat exchanger (1) for an air conditioning circuit of a vehicle comprising a central tube (2) for refrigerating fluid and a tubular covering (3) housing the central tube (2) and defining a fixed pipe (4) for the refrigerating fluid with the central tube (2), wherein at least the tubular covering (3) defines a helical relief (10) obtained by means of plastic deformation to convey the refrigerating fluid along a helical path around the central tube (2).

IPC 8 full level

F28D 7/10 (2006.01); **F28F 1/08** (2006.01)

CPC (source: EP)

F28D 7/106 (2013.01); **F28F 1/08** (2013.01); **F28F 21/084** (2013.01); **F28F 2210/06** (2013.01); **F28F 2275/067** (2013.01); **F28F 2275/12** (2013.01)

Citation (applicant)

EP 2228613 A2 20100915 - HUTCHINSON FTS INC [US]

Citation (search report)

- [XYI] DE 3320956 A1 19841213 - KABELMETAL ELECTRO GMBH [DE]
- [Y] FR 1534889 A 19680802 - COMMISSARIAT ENERGIE ATOMIQUE
- [A] DE 3602608 A1 19870730 - WAHLER GMBH & CO GUSTAV [DE]
- [A] EP 2228613 A2 20100915 - HUTCHINSON FTS INC [US]
- [A] GB 2451862 A 20090218 - SENIOR UK LTD [GB]

Cited by

JP2014516151A; EP2933592A4; JP2020012619A; EP3614074A1; WO2021054382A1

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)

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