

Title (en)

HEADER FOR A HEAT EXCHANGER OF A MOTOR VEHICLE

Title (de)

KOPF FÜR EINEN WÄRMETAUSCHER EINES KRAFTFAHRZEUGS

Title (fr)

COLLECTEUR POUR UN ÉCHANGEUR THERMIQUE DE VÉHICULE AUTOMOBILE

Publication

**EP 3140604 A1 20170315 (FR)**

Application

**EP 15720987 A 20150505**

Priority

- FR 1454042 A 20140505
- EP 2015059865 W 20150505

Abstract (en)

[origin: WO2015169807A1] The invention relates to a header (10) for a heat exchanger of a motor vehicle, designed to receive heat exchange tubes (12). The header comprises: a metal plate (18) through which the tubes (12) pass and which has two long edges (26) for the crimping of the header (10) to a header box (16); and a plate (22) comprising a polymer material, placed above the metal plate (18) and provided with openings (42) for receiving the tubes (12).

IPC 8 full level

**F28F 9/02** (2006.01); **F28F 21/06** (2006.01)

CPC (source: CN EP KR US)

**F28F 1/02** (2013.01 - US); **F28F 9/0226** (2013.01 - CN EP KR US); **F28F 21/062** (2013.01 - CN EP KR US); **F28F 21/084** (2013.01 - KR); **F28D 2021/008** (2013.01 - KR); **F28F 2225/08** (2013.01 - CN EP KR US); **F28F 2230/00** (2013.01 - CN EP KR US); **F28F 2275/122** (2013.01 - US)

Citation (search report)

See references of WO 2015169807A1

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 3020671 A1 20151106; FR 3020671 B1 20160610**; CN 106461356 A 20170222; CN 106461356 B 20200313; EP 3140604 A1 20170315; EP 3140604 B1 20230705; JP 2017515086 A 20170608; KR 20160145137 A 20161219; MX 2016014497 A 20170523; US 10180290 B2 20190115; US 2017074601 A1 20170316; WO 2015169807 A1 20151112

DOCDB simple family (application)

**FR 1454042 A 20140505**; CN 201580027605 A 20150505; EP 15720987 A 20150505; EP 2015059865 W 20150505; JP 2016566713 A 20150505; KR 20167031807 A 20150505; MX 2016014497 A 20150505; US 201515308851 A 20150505