

Title (en)

FLAT TUBE FOR A CHARGE AIR COOLER AND CORRESPONDING CHARGE AIR COOLER

Title (de)

FLACHROHR FÜR EINEN LADELÜFTKÜHLER UND ENTSPRECHENDER LADELÜFTKÜHLER

Title (fr)

TUBE PLAT POUR ÉCHANGEUR DE CHALEUR D'AIR DE SURALIMENTATION ET ÉCHANGEUR DE CHALEUR D'AIR DE SURALIMENTATION CORRESPONDANT

Publication

EP 2936038 B1 20190731 (FR)

Application

EP 13811212 A 20131218

Priority

- FR 1262265 A 20121218
- EP 2013077244 W 20131218

Abstract (en)

[origin: WO2014096105A1] Flat tube (100) of a charge air cooler, which tube is produced from at least one metal sheet that is pressed so as to form a heat exchange plate (1), said pressing allowing a connection between a fluid inlet and a fluid outlet via a circuit through which heat transfer fluid passes, said circuit comprising at least one metal insert (51) positioned within it and made of a material that creates a potential difference of 30mV or greater with the material of the flat tube (100).

IPC 8 full level

F02B 29/04 (2006.01); **F28F 19/00** (2006.01)

CPC (source: EP US)

F02B 29/0462 (2013.01 - EP US); **F28F 19/004** (2013.01 - EP US); **F28F 2255/08** (2013.01 - EP US)

Citation (examination)

- WO 2009156365 A1 20091230 - VALEO SYSTEMES THERMIQUES [FR], et al
- DE 102005059717 A1 20060706 - BEHR GMBH & CO KG [DE]
- EP 1120622 A1 20010801 - DENSO CORP [JP]
- GB 2078359 A 19820106 - SUMITOMO LIGHT METAL IND, et al
- WO 2012018536 A2 20120209 - CARRIER CORP [US], 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

DOCDB simple family (publication)

FR 2999696 A1 20140620; FR 2999696 B1 20180914; CN 104995479 A 20151021; CN 112228210 A 20210115; EP 2936038 A1 20151028; EP 2936038 B1 20190731; ES 2753204 T3 20200407; JP 2016500436 A 20160112; JP 6400596 B2 20181003; KR 101679344 B1 20161124; KR 20150093241 A 20150817; PL 2936038 T3 20200518; US 11098639 B2 20210824; US 2015322846 A1 20151112; WO 2014096105 A1 20140626

DOCDB simple family (application)

FR 1262265 A 20121218; CN 201380070647 A 20131218; CN 202011017354 A 20131218; EP 13811212 A 20131218; EP 2013077244 W 20131218; ES 13811212 T 20131218; JP 2015548538 A 20131218; KR 20157019072 A 20131218; PL 13811212 T 20131218; US 201314652347 A 20131218