

Title (en)

FLUID COOLED INJECTOR AND EXHAUST AFTERTREATMENT SYSTEM, VEHICLE, AND METHOD USING A FLUID COOLED INJECTOR

Title (de)

FLÜSSIGKEITSGEKÜHLTER INJEKTOR UND ABGASNACHBEHANDLUNGSSYSTEM, FAHRZEUG UND VERFAHREN UNTER VERWENDUNG EINES FLÜSSIGKEITSGEKÜHLTEN INJEKTORS

Title (fr)

INJECTEUR REFROIDI PAR FLUIDE ET SYSTÈME DE TRAITEMENT POSTCOMBUSTION DES GAZ ÉCHAPPEMENT, VÉHICULE, ET PROCÉDÉ D'UTILISATION D'UN INJECTEUR REFROIDI PAR FLUIDE

Publication

EP 2694784 A4 20140910 (EN)

Application

EP 11863108 A 20110916

Priority

- US 201161471371 P 20110404
- US 2011051895 W 20110916

Abstract (en)

[origin: WO2012138373A1] A fluid cooled injector includes an injector body comprising an injector tip and a cooling channel, the injector tip comprising an injector orifice, and a heat conducting shield, the heat conducting shield comprising a heat conducting shield orifice arranged coaxially with the injector orifice, the heat conducting shield being in direct contact with at least one of the injector body and the injector tip. An exhaust aftertreatment system and a vehicle including such an injector, and a method involving the use of such an injector, are also disclosed.

IPC 8 full level

F01N 3/00 (2006.01)

CPC (source: EP US)

F01N 3/023 (2013.01 - US); **F01N 3/0253** (2013.01 - EP US); **F01N 3/36** (2013.01 - EP US); **F01N 2260/20** (2013.01 - EP US); **F01N 2610/03** (2013.01 - EP US); **F01N 2610/11** (2013.01 - EP US); **F01N 2610/1453** (2013.01 - EP US); **Y02A 50/20** (2017.12 - EP US)

Citation (search report)

- [XYI] WO 2008110407 A1 20080918 - BOSCH GMBH ROBERT [DE], et al
- [XAI] WO 9941492 A2 19990819 - SIEMENS AG [DE], et al
- [XII] EP 1662108 A1 20060531 - EBERSPAECHER J GMBH & CO [DE]
- [YA] DE 102008055190 A1 20090730 - DENSO CORP [JP]
- [A] WO 2011012359 A1 20110203 - BOSCH GMBH ROBERT [DE], et al
- [Y] JP H09112392 A 19970428 - DENSO CORP
- See references of WO 2012138373A1

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)

WO 2012138373 A1 20121011; **WO 2012138373 A8 20131107**; BR 112013025571 A2 20161227; CN 103649479 A 20140319; EP 2694784 A1 20140212; EP 2694784 A4 20140910; JP 2014514493 A 20140619; RU 2013148822 A 20150510; US 2014013728 A1 20140116

DOCDB simple family (application)

US 2011051895 W 20110916; BR 112013025571 A 20110916; CN 201180069954 A 20110916; EP 11863108 A 20110916; JP 2014503644 A 20110916; RU 2013148822 A 20110916; US 201114003805 A 20110916