

Title (en)

APPARATUS AND METHOD OF OPERATING AN INJECTOR FOR AN EXHAUST GAS AFTERTREATMENT APPARATUS

Title (de)

VORRICHTUNG UND VERFAHREN ZUM BETREIBEN EINES INJEKTORS FÜR EINE ABGASNACHBEHANDLUNGSVORRICHTUNG

Title (fr)

APPAREIL ET PROCÉDÉ DE FONCTIONNEMENT D'UN INJECTEUR POUR UN APPAREIL DE POST-TRAITEMENT DE GAZ D'ÉCHAPPEMENT

Publication

EP 2893163 A2 20150715 (EN)

Application

EP 12881703 A 20120726

Priority

US 2012048277 W 20120726

Abstract (en)

[origin: WO2014018036A2] A method for operating an exhaust aftertreatment system injector to prevent coking includes steps of injecting fuel for heating the aftertreatment devices, when not injecting fuel, flowing air to purge and cool the nozzle to prevent carbon deposits when exhaust gas temperature is low, and substantially stop air flow to allow passive heating of the nozzle by the exhaust for oxidation of any accumulated carbon when exhaust temperature is high enough to support oxidation. Preferably, the nozzle has a catalytic material coating to reduce the temperature necessary for oxidation of the coking material.

IPC 8 full level

F01N 3/20 (2006.01); **F01N 9/00** (2006.01)

CPC (source: EP RU US)

F01N 3/2033 (2013.01 - RU US); **F01N 3/206** (2013.01 - EP RU US); **F01N 9/00** (2013.01 - EP RU US); **F01N 11/002** (2013.01 - RU US); **F01N 2610/03** (2013.01 - EP US); **F01N 2610/08** (2013.01 - EP US); **F01N 2610/146** (2013.01 - EP US); **F01N 2610/1493** (2013.01 - EP US); **F01N 2900/1404** (2013.01 - EP US); **Y02T 10/40** (2013.01 - EP US)

Cited by

CN106246301A

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)

WO 2014018036 A2 20140130; **WO 2014018036 A3 20140501**; BR 112015001717 A2 20170704; CA 2879562 A1 20140130; CN 104541030 A 20150422; EP 2893163 A2 20150715; EP 2893163 A4 20160608; JP 2015526634 A 20150910; JP 5909028 B2 20160426; RU 2015106316 A 20160920; RU 2604405 C2 20161210; US 2015192050 A1 20150709

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