

Title (en)

EXHAUST SYSTEM AND METHOD FOR REDUCING PARTICULATE AND NO2 EMISSIONS

Title (de)

ABGASSYSTEM UND METHODE ZUR REDUZIERUNG DER EMISSION VON FEINSTAUB UND NO2

Title (fr)

SYSTÈME D'ÉCHAPPEMENT ET MÉTHODE POUR LA RÉDUCTION DES ÉMISSIONS DE PARTICULES ET DE NO2

Publication

EP 2802751 A1 20141119 (EN)

Application

EP 13701923 A 20130108

Priority

- GB 201200230 A 20120109
- EP 2013050236 W 20130108

Abstract (en)

[origin: WO2013104633A1] An exhaust system (2) for reducing particulate and NO2 emissions from diesel engine exhaust gases comprises: a diesel particulate filter (10); an inlet (6) for receiving exhaust gases from a diesel engine; a first conduit (4) capable of providing a first fluid connection between the inlet (6) and the diesel particulate filter (10); a second conduit (12) capable of providing a second fluid connection between the inlet (6) and the diesel particulate filter (10); a diesel oxidation catalyst (14) in the second conduit (12), the diesel oxidation catalyst catalysing hydrocarbon combustion and the formation of NO2 and having high HC activity and high NO2 activity; a valve mechanism (18) for selectively directing exhaust gases from the inlet (6) to the diesel particulate filter (10) through the first conduit (4) or the second conduit (12); wherein exhaust gases that pass from the inlet (6) to the diesel particulate filter (10) through the first conduit (4) but not the second conduit (12) will not encounter a diesel oxidation catalyst; and a fuel injector (16) for injecting fuel upstream of the dieseloxidation catalyst (14).

IPC 8 full level

F01N 3/023 (2006.01); **F01N 3/025** (2006.01); **F01N 3/20** (2006.01); **F01N 9/00** (2006.01)

CPC (source: EP US)

F01N 3/0231 (2013.01 - EP US); **F01N 3/025** (2013.01 - EP US); **F01N 3/0253** (2013.01 - EP US); **F01N 3/206** (2013.01 - US); **F01N 9/002** (2013.01 - EP US); **F01N 2410/00** (2013.01 - EP US); **F01N 2900/1602** (2013.01 - EP US); **Y02T 10/40** (2013.01 - EP US)

Citation (search report)

See references of WO 2013104633A1

Cited by

US11313264B2; WO2018184921A1

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 2013104633 A1 20130718; EP 2802751 A1 20141119; GB 201200230 D0 20120222; HK 1199293 A1 20150626; US 2015027104 A1 20150129

DOCDB simple family (application)

EP 2013050236 W 20130108; EP 13701923 A 20130108; GB 201200230 A 20120109; HK 14112734 A 20141219; US 201314371074 A 20130108