

Title (en)

SYSTEM FOR TREATING THE EXHAUST GASES OF A MOTOR VEHICLE ENGINE AND METHOD FOR CONTROLLING SAME

Title (de)

SYSTEM ZUR BEHANDLUNG VON ABGASEN EINES KRAFTFAHRZEUGES UND VERFAHREN ZUR STEUERUNG DAVON

Title (fr)

SYSTÈME DE TRAITEMENT DES GAZ D'ÉCHAPPEMENT D'UN MOTEUR SUR UN VÉHICULE AUTOMOBILE ET SON PROCÉDÉ DE COMMANDE

Publication

EP 2946098 A1 20151125 (FR)

Application

EP 13814906 A 20131219

Priority

- FR 1350344 A 20130115
- EP 2013077428 W 20131219

Abstract (en)

[origin: WO2014111226A1] The invention relates to a system for treating the exhaust gases (G) of an engine (12) on a motor vehicle comprising a particle filter (16), in which the regeneration of the particle filter (16) is controlled by bringing the temperature of the gases that are upstream from the particle filter (16) to a first set temperature (T1) in order to initiate the combustion of the soot accumulated in the particle filter (16), a critical area (32) and a normal area (31) are defined on the basis of the point of operation of the engine (12), which is characterized by a load of the engine (12) and a speed, and the temperature of the exhaust gases (G) is brought to the first set temperature (T1) in the normal area (31) and to a second set temperature (T2), which is lower than the first set temperature (T1), in the critical area (32).

IPC 8 full level

F02D 41/02 (2006.01); **F01N 3/023** (2006.01); **F02D 41/14** (2006.01)

CPC (source: EP RU US)

F01N 3/0234 (2013.01 - RU US); **F01N 3/029** (2013.01 - RU US); **F01N 9/002** (2013.01 - EP RU US); **F01N 9/005** (2013.01 - EP US); **F02D 41/0245** (2013.01 - EP US); **F02D 41/029** (2013.01 - EP US); **F01N 3/103** (2013.01 - EP US); **F01N 2430/08** (2013.01 - EP US); **F01N 2430/085** (2013.01 - EP US); **F01N 2560/06** (2013.01 - EP US); **F01N 2900/0412** (2013.01 - EP US); **F01N 2900/0416** (2013.01 - EP US); **F01N 2900/0601** (2013.01 - EP US); **F01N 2900/12** (2013.01 - EP US); **F01N 2900/1404** (2013.01 - EP US); **F01N 2900/1606** (2013.01 - EP US); **F02D 41/1446** (2013.01 - EP US); **F02D 41/1454** (2013.01 - EP US); **F02D 2200/0812** (2013.01 - EP US); **Y02A 50/20** (2017.12 - EP US); **Y02T 10/12** (2013.01 - EP US); **Y02T 10/40** (2013.01 - EP US)

Citation (search report)

See references of WO 2014111226A1

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 3000991 A1 20140718; **FR 3000991 B1 20160513**; EP 2946098 A1 20151125; KR 102112310 B1 20200518; KR 20150104115 A 20150914; RU 2015134153 A 20170222; RU 2651896 C2 20180424; US 2015354423 A1 20151210; US 9683469 B2 20170620; WO 2014111226 A1 20140724

DOCDB simple family (application)

FR 1350344 A 20130115; EP 13814906 A 20131219; EP 2013077428 W 20131219; KR 20157018778 A 20131219; RU 2015134153 A 20131219; US 201314654698 A 20131219