

Title (en)

Exhaust gas purification system for the combustion engine of an automotive vehicle and exhaust line comprising such a system

Title (de)

Abgasreinigungsanlage für die Brennkraftmaschine eines Fahrzeuges und Abgasstrecke mit einer solchen Anlage

Title (fr)

Système de purification des gaz d'échappement d'un moteur thermique de véhicule automobile et ligne d'échappement comportant un tel système

Publication

**EP 1574680 B1 20081105 (FR)**

Application

**EP 05290523 A 20050308**

Priority

FR 0402550 A 20040311

Abstract (en)

[origin: EP1574680A1] Automobile engine exhaust gas purification system comprises inlet channels with a open front end and a closed rear end, outlet channels with a closed front end and a open rear end, an oxidation catalyst at the front end of the inlet channels, and a catalyst-regenerating plasma discharge system at the rear end of the inlet channels. Automobile engine exhaust gas purification system comprises inlet channels (1) with a open front end and a closed rear end, outlet channels (2) with a closed front end and a open rear end, an oxidation catalyst (5a) comprising a layer of catalyst-impregnated material at the front end of the inlet channels, and a catalyst-regenerating plasma discharge system comprising electrodes (6, 7) that are embedded in a dielectric barrier (5b) at the rear end of the inlet channels and are connected to an electricity supply. An independent claim is also included for an automobile exhaust train comprising a system as above.

IPC 8 full level

**F01N 3/023** (2006.01); **F01N 3/022** (2006.01); **F01N 3/027** (2006.01); **F01N 3/035** (2006.01)

CPC (source: EP)

**F01N 3/0222** (2013.01); **F01N 3/023** (2013.01); **F01N 3/0275** (2013.01); **F01N 3/035** (2013.01); **F01N 2240/28** (2013.01)

Cited by

RU199195U1; RU2764684C1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

**EP 1574680 A1 20050914**; **EP 1574680 B1 20081105**; AT E413519 T1 20081115; DE 602005010770 D1 20081218; FR 2867510 A1 20050916; FR 2867510 B1 20061020

DOCDB simple family (application)

**EP 05290523 A 20050308**; AT 05290523 T 20050308; DE 602005010770 T 20050308; FR 0402550 A 20040311