

Title (en)

Engine exhaust treatment system, especially diesel engine, and method for the operation of an engine exhaust treatment system

Title (de)

Abgasbehandlungssystem für eine Brennkraftmaschine, insbesondere Diesel-Brennkraftmaschine, und Verfahren zum Betreiben eines Abgasbehandlungssystems für eine Brennkraftmaschine

Title (fr)

Système de traitement des gaz d'échappement d'un moteur, en particulier moteur diesel, et procédé de fonctionnement d'un système de traitement des gaz d'échappement d'un moteur

Publication

EP 1533489 A3 20060517 (DE)

Application

EP 04023077 A 20040928

Priority

DE 10354232 A 20031120

Abstract (en)

[origin: EP1533489A2] The exhaust gas treatment system for an internal combustion engine comprises a catalyser (16), and an evaporator/burner unit (20) in the exhaust gas flow path (14) upstream of the catalyser. The evaporator/burner unit has a vaporizing combustion chamber (22) is formed in a housing (21) which is open to the exhaust gas flow path, a vaporizing medium (34) to absorb liquid hydrocarbon and for the emitting of hydrocarbon vapour to the vaporizing combustion chamber, a heater (38) to heat up the vaporizing medium, and an igniter unit (42) to start the combustion of the hydrocarbon vapour. An independent claim is included for a method for the operating of an exhaust gas treatment system.

IPC 8 full level

F01N 3/20 (2006.01); **F01N 5/02** (2006.01); **B01D 53/94** (2006.01); **F01N 3/025** (2006.01); **F01N 3/027** (2006.01); **F01N 3/035** (2006.01); **F01N 3/24** (2006.01); **F01N 3/36** (2006.01)

CPC (source: EP US)

F01N 3/025 (2013.01 - EP US); **F01N 3/027** (2013.01 - EP US); **F01N 3/035** (2013.01 - EP US); **F01N 2610/1453** (2013.01 - EP US)

Citation (search report)

- [Y] DE 19504208 A1 19950817 - VOLKSWAGEN AG [DE]
- [Y] EP 1354852 A2 20031022 - EBERSPAECHER J GMBH & CO [DE]
- [A] US 5379592 A 19950110 - WASCHKUTTIS GERHARD [US]
- [A] US 4459805 A 19840717 - KAMIYA SIGERU [JP], et al

Cited by

WO2007079832A1; FR2921438A1; WO2008003519A1; WO2020193595A1

Designated contracting state (EPC)

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

DOCDB simple family (publication)

EP 1533489 A2 20050525; **EP 1533489 A3 20060517**; **EP 1533489 B1 20080528**; DE 10354232 A1 20050630; DE 502004007271 D1 20080710; JP 2005155617 A 20050616; US 2005109019 A1 20050526; US 7150146 B2 20061219

DOCDB simple family (application)

EP 04023077 A 20040928; DE 10354232 A 20031120; DE 502004007271 T 20040928; JP 2004319711 A 20041102; US 99213904 A 20041118