

Title (en)

Device for elimination of carbon black particulates from an exhaust gas stream of an internal combustion engine

Title (de)

Verfahren zum Entfernen von Rußpartikeln aus einem Abgasstrom eines Verbrennungsmotors

Title (fr)

Dispositif pour l'élimination des particules de suie d'un courant des gas d'échappement d'un moteur de combustion interne

Publication

EP 1734234 A3 20070103 (DE)

Application

EP 06021008 A 20030911

Priority

EP 03020688 A 20030911

Abstract (en)

[origin: EP1515012A1] A modular assembly removes soot particles from automotive exhaust gases by oxidation of trapped particles with NO(2). The NO(2) is oxidized by NO exhaust gases in contact with a catalyst in relation to the gas flow speed at a temperature above about 200[deg] C. The module contains one or more layers of open-pored noble metal foam (2).

IPC 8 full level

F01N 3/023 (2006.01); **F01N 3/28** (2006.01)

CPC (source: EP US)

F01N 3/0231 (2013.01 - EP US); **F01N 3/2807** (2013.01 - EP US); **F01N 2250/02** (2013.01 - EP US); **F01N 2330/14** (2013.01 - EP US); **F01N 2330/22** (2013.01 - EP US); **F01N 2340/00** (2013.01 - EP US)

Citation (search report)

- [XA] EP 1065352 A2 20010103 - SUMITOMO ELECTRIC INDUSTRIES [JP]
- [Y] EP 1262641 A1 20021204 - MITSUI BUSSAN [JP]
- [Y] DE 3731889 A1 19890629 - MOTOTECH MOTOREN UMWELTSCHUTZ [DE]
- [X] EP 1055805 A1 20001129 - DEGUSSA [DE]
- [A] US 5474745 A 19951212 - FUKUI MASAYUKI [JP], et al
- [A] JP H0979024 A 19970325 - TOYOTA MOTOR CORP
- [A] DE 10020555 A1 20011031 - BOSCH GMBH ROBERT [DE]

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 PT RO SE SI SK TR

Designated extension state (EPC)

AL LT LV MK

DOCDB simple family (publication)

EP 1515012 A1 20050316; **EP 1515012 B1 20061011**; AT E342434 T1 20061115; DE 50305367 D1 20061123; DK 1515012 T3 20070219; EP 1734234 A2 20061220; EP 1734234 A3 20070103; ES 2272867 T3 20070501; US 2005056977 A1 20050317

DOCDB simple family (application)

EP 03020688 A 20030911; AT 03020688 T 20030911; DE 50305367 T 20030911; DK 03020688 T 20030911; EP 06021008 A 20030911; ES 03020688 T 20030911; US 93871604 A 20040910