

Title (en)

DIESEL PARTICULATE FILTER COMPRISING A FINELY DISPERSED DIESEL PARTICULATE CATALYST

Title (de)

DIESELRUSSFILTER MIT EINEM FEINDISPERS VERTEILTEM DIESELRUSSKATALYSATOR

Title (fr)

FILTRE A PARTICULES DIESEL CONTENANT UN CATALYSEUR A PARTICULES DIESEL FINEMENT DISPERSE

Publication

EP 1399651 A2 20040324 (DE)

Application

EP 02747415 A 20020620

Priority

- DE 10130338 A 20010626
- EP 0206831 W 20020620

Abstract (en)

[origin: WO03002853A2] The invention relates to a device for the, (in particular continuous), oxidation of particulates from the exhaust gases of diesel motors. Said device consists of an open-pored body as a particle filter, on whose surface an oxidation catalyst is finely dispersed. The device is characterised in that from an exhaust gas temperature as low as 150 DEG C, the catalyst causes the oxidation of particulates attached to the filter using the residual oxygen of the exhaust gas, thus keeping the filter body continuously free of particulates during almost all the operating conditions of the motor.

IPC 1-7

F01N 3/035; **F01N 3/027**; **F01N 3/022**; **B01J 35/00**; **B01J 37/03**; **B01J 35/02**

IPC 8 full level

F01N 3/02 (2006.01); **B01D 39/14** (2006.01); **B01D 46/42** (2006.01); **B01D 53/94** (2006.01); **B01J 35/00** (2024.01); **B01J 37/03** (2006.01); **F01N 3/022** (2006.01); **F01N 3/023** (2006.01); **F01N 3/027** (2006.01); **F01N 3/24** (2006.01); **F01N 13/02** (2010.01)

CPC (source: EP US)

B01D 53/944 (2013.01 - EP US); **B01J 35/23** (2024.01 - EP US); **B01J 35/40** (2024.01 - EP US); **B01J 35/59** (2024.01 - EP US); **B01J 37/038** (2013.01 - EP US); **F01N 3/022** (2013.01 - EP US); **F01N 3/0222** (2013.01 - EP US); **F01N 3/0224** (2013.01 - EP US); **F01N 3/023** (2013.01 - EP US); **F01N 3/027** (2013.01 - EP US); **F01N 3/035** (2013.01 - EP US); **F01N 3/103** (2013.01 - EP US); **F01N 13/009** (2014.06 - EP US); **F01N 13/0093** (2014.06 - EP US); **F01N 13/0097** (2014.06 - EP US); **F01N 2240/38** (2013.01 - EP US); **F01N 2250/02** (2013.01 - EP US); **F01N 2510/065** (2013.01 - EP US)

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)

WO 03002853 A2 20030109; **WO 03002853 A3 20030403**; CA 2451771 A1 20030109; CA 2451771 C 20100427; DE 10130338 A1 20030424; EP 1399651 A2 20040324; JP 2004530837 A 20041007; JP 4274937 B2 20090610; US 2004235658 A1 20041125; US 7666376 B2 20100223; ZA 200309691 B 20040917

DOCDB simple family (application)

EP 0206831 W 20020620; CA 2451771 A 20020620; DE 10130338 A 20010626; EP 02747415 A 20020620; JP 2003508809 A 20020620; US 48182204 A 20040528; ZA 200309691 A 20031212