

Title (en)

A process and device for removing soot particles from the exhaust gas from a diesel engine

Title (de)

Verfahren und Vorrichtung zum Entfernen von Russpartikeln aus dem Abgas eines Dieselmotors

Title (fr)

Procédé et dispositif d'élimination des particules de suie de gaz d'échappement d'un moteur diesel

Publication

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Application

EP 02008253 A 20020418

Priority

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- EP 01109571 A 20010418

Abstract (en)

[origin: EP1251249A2] The invention provides a process for removing soot particles from exhaust gas from produced by a diesel engine. The process uses a particle filter (1) that collects soot particles with the aid of nitrogen dioxide which is generated by catalytic oxidation of nitrogen monoxide contained in the exhaust gas. The process is characterized in that the particle filter (1) is a deep-bed particle filter, having a filtration efficiency for the soot particles. The particle filter is coated with a catalytic coating (2) for oxidizing nitrogen monoxide to nitrogen dioxide and the exhaust gas leaving the particle filter subsequently filtered through a particle filter serving as a soot barrier (3). The filter can have a filtration efficiency of over 95 %.

IPC 8 full level

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CPC (source: EP)

F01N 3/0231 (2013.01); **F01N 3/035** (2013.01); **F01N 13/009** (2014.06); **F01N 13/0093** (2014.06)

Citation (opposition)

Opponent :

- JP H0979024 A 19970325 - TOYOTA MOTOR CORP
- EP 1055805 A1 20001129 - DEGUSSA [DE]

Cited by

CN108554406A; US7347042B2; WO2005046869A1; WO2004015251A1; US7498010B2; US8480986B2; US8833062B1; US8850802B1; US9073010B2; EP2002094B1

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