

Title (en)

FILTER FOR REMOVING PARTICLES FROM A GAS STREAM AND METHOD FOR PRODUCING SAID FILTER

Title (de)

FILTER ZUR ENTFERNUNG VON PARTIKELN AUS EINEM GASSTROM SOWIE VERFAHREN ZU SEINER HERSTELLUNG

Title (fr)

FILTRE DESTINÉ À ÉLIMINER DES PARTICULES D'UN FLUX GAZEUX ET PROCÉDÉ DE FABRICATION ASSOCIÉ

Publication

EP 2059660 A1 20090520 (DE)

Application

EP 07787330 A 20070710

Priority

- EP 2007057056 W 20070710
- DE 102006040739 A 20060831

Abstract (en)

[origin: WO2008025603A1] The invention relates to a filter for removing particles from a gas stream, in particular soot particles from an exhaust gas stream of an internal combustion engine. Said filter comprises a filter body consisting of a ceramic filter substrate, the latter being coated with a porous protective layer of (46, 48) coating material. The invention is characterised in that the coating material contains an admixture of between 1 and 20 % by weight of at least one compound of an element of the 2nd main group of the periodic table, preferably an oxide of an element of the 2nd main group, and that cracks (44) in the ceramic filter substrate are partially filled with the coating material. The invention also relates to a method for producing a filter, according to which the coating material for the porous protective layer (46, 48) is applied to the sintered ceramic filter substrate, at least one compound of an element of the 2nd main group is added, other substances contained in the protective layer (46, 48) are optionally added and the porous protective layer (46, 48) is fixed.

IPC 8 full level

F01N 3/28 (2006.01); **B01D 53/86** (2006.01); **B01J 35/04** (2006.01)

CPC (source: EP KR US)

B01D 53/86 (2013.01 - KR); **B01D 53/944** (2013.01 - EP US); **B01J 35/56** (2024.01 - KR US); **F01N 3/0222** (2013.01 - EP US); **F01N 3/28** (2013.01 - KR); **B01D 2255/2022** (2013.01 - EP US); **B01D 2255/2042** (2013.01 - EP US); **B01D 2255/206** (2013.01 - EP US); **B01J 23/40** (2013.01 - EP US); **B01J 37/0244** (2013.01 - EP US); **F01N 2330/06** (2013.01 - EP US); **Y02T 10/12** (2013.01 - EP US)

Citation (search report)

See references of WO 2008025603A1

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 LV MC MT NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR MK RS

DOCDB simple family (publication)

DE 102006040739 A1 20080306; EP 2059660 A1 20090520; KR 20090056999 A 20090603; US 2011091361 A1 20110421; WO 2008025603 A1 20080306

DOCDB simple family (application)

DE 102006040739 A 20060831; EP 07787330 A 20070710; EP 2007057056 W 20070710; KR 20097004166 A 20090227; US 31058207 A 20070710