

Title (en)

PARTICLE REDUCTION HAVING A COMBINED SCR AND NH3 SLIP CATALYST

Title (de)

PARTIKELMINDERUNG MIT KOMBINIERTEM SCR- UND NH3- SCHLUPF - KATALYSATOR

Title (fr)

RÉDUCTION DE PARTICULES AVEC UN CATALYSEUR COMBINÉ SCR ET CONTRE LES DÉGAGEMENTS DE NH3

Publication

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Application

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Abstract (en)

[origin: WO2010051983A1] The present invention relates to a particulate filter, comprising a porous carrier body, an SCR-active component and an oxidation catalyst, wherein the SCR-active component is present as a coating on the exhaust gas inlet surface and on the inside surface of the porous carrier body, and the oxidation catalyst is present as a coating on the exhaust gas outlet surface of the porous carrier body. According to the invention, the oxidation catalyst changes the function thereof, depending on the operating conditions. In normal operation, it serves as an NH3 slip catalyst for oxidizing excess NH3, and during filter regeneration, it operates according to the 3-way principle for converting NOx and CO. The invention also relates to a method for producing the particulate filter, to the use of the particulate filter for treating exhaust gases from the combustion of fossil or synthetic fuels or biofuels, and to an exhaust gas purification system containing the particulate filter according to the invention.

IPC 8 full level

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