

Title (en)

DEVICE AND METHOD FOR REGENERATING PARTICLE FILTERS, USE OF A MEDIUM FOR REGENERATING PARTICLE FILTERS, AND REFILL PACK COMPRISING SAID MEDIUM

Title (de)

EINRICHTUNG UND VERFAHREN ZUR REGENERATION VON PARTIKELFILTERN, SOWIE VERWENDUNG EINES MEDIUMS ZUR REGENERATION VON PARTIKELFILTERN, UND NACHFÜLLPACKUNG MIT DEM MEDIUM

Title (fr)

DISPOSITIF ET PROCÉDÉ DE RÉGÉNÉRATION DE FILTRES À PARTICULES, UTILISATION D'UN MILIEU DE RÉGÉNÉRATION DE FILTRES À PARTICULES, ET GARNISSAGE RECHARGEABLE AVEC LEDIT MILIEU

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Application

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Abstract (en)

[origin: WO2008131573A1] The invention relates to the use of a fuel other than diesel or diesel fission products, particularly of monoethylene glycol and/or methanol, for the exhaust gas enrichment upstream of a particle filter (19) of a diesel engine (11), in order to heat the exhaust gas to a temperature sufficient for a regeneration of the particle filter (19) by means of a catalytic oxidation of said fuel. The invention further relates to the device allowing said use, which to this end comprises one fuel tank (25) and a fuel line (27) connected to an exhaust line (17) of a diesel engine (11). The fuel tank (25) of the exhaust line is not the diesel tank (15) of the diesel engine. The invention can further relate to the diesel engine (11) and the tank thereof (15), and the exhaust line (17) with the particle filter (19). The idea combining all the aspects of the invention is expressed by the method, which is characterized by the following steps: Fuel, particularly methanol and/or ethylene glycol, is added to the exhaust gas of a diesel engine (11) upstream of the particle filter (19) thereof such that said fuel oxidizes in the gaseous state on the surface of the catalyst (21), thus heating the exhaust gas to a temperature at which the regeneration of the particle filter can be carried out. Due to the fuel tank (25) being separate from the diesel tank (15), a fuel can be used that already reacts with the catalyst (21) at temperatures too low for diesel.

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