

Title (en)

METHOD AND DEVICE FOR FILTRATION OF EXHAUST GASES FOR A DIESEL ENGINE WITH A FILTRATION SURFACE WHICH IS VARIABLE BY MEANS OF CONTROLLED OBSTRUCTION

Title (de)

VERFAHREN UND VORRICHTUNG ZUM FILTERN VON ABGASEN FÜR EINEN DIESELMOTOR MIT EINER DURCH GESTEUERTE BLOCKIERUNG VERÄNDERBARE FILTRATIONSFLÄCHE

Title (fr)

PROCÉDÉ ET DISPOSITIF DE FILTRATION DES GAZ D'ÉCHAPPEMENT POUR MOTEUR DIESEL À SURFACE DE FILTRATION VARIABLE PAR OBSTRUCTION COMMANDÉE

Publication

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Application

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Abstract (en)

[origin: WO03102389A2] The invention relates to particle filters for the exhaust gases of diesel engines. The aim of the invention is to optimise the process of filtration, particularly in terms of the regeneration of the filtration means, such as to provide a satisfactory solution to the problem of clogging of said filtration means by carbon particles. According to the invention, said aim is achieved with a method whereby all or some of the particles contained in the exhaust gases are retained on the filtration means and burnt due to the action of a combustion catalyst, characterised in obstructing at least a part of the filtration means when the temperature θ_g of the exhaust gases for filtration is equal to or less than a threshold temperature θ_s , such as to limit or avoid the cooling of the obstructed part of the filtration means and to maintain the same at a temperature θ_a greater than or equal to θ_s up until the time when θ_g becomes greater than θ_s again and thus permits an accelerated regeneration of the obstructed part of the filtration means. The invention further relates to an exhaust gas filtration device which permits the carrying out of said method for filtration with continuous and regular regeneration of the filtration means.

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Citation (search report)

See references of WO 03102389A2

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