

Title (en)

COMBUSTION CONTROL BY PARTICLE FILTER REGENERATION

Title (de)

KONTROLLE DER VERBRENNUNG BEI DER REGENERATION EINES PARTIKELFILTERS

Title (fr)

CONTROLE DE LA COMBUSTION EN REGENERANT UN FILTRE DE PARTICULES

Publication

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Application

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Abstract (en)

[origin: WO0163103A1] The invention concerns a method and a device for controlling the regeneration of an element filtering oxidizable particles carried by a gas stream, by periodic combustion of said particles, such as for instance carbon-containing particles carried in an internal combustion engine (3) exhaust gases, retained in an exhaust box (1). When applied to an internal combustion engine, the method consists in detecting the variation, measured with richness probes (4, 5) of the oxygen richness of the gas stream between at least a first point upstream relative to the direction of the filtering element (1) receiving the flow and at least a second point downstream of the first, resulting from a reaction of the combustion of particles accumulated in the filtering element, triggered by a control member (6) acting for example of the engine (3) operating conditions, thereby enabling it to adjust with accuracy the filtering element regenerating step, hence providing optimised limitation of overconsumption. The invention is applicable to the motor car industry for example.

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