

Title (en)  
Estimation of the soot load of a particulate filter

Title (de)  
Beurteilung der Rußlast eines Partikelfilters

Title (fr)  
Évaluation de la charge de suie d'un filtre particulier

Publication  
**EP 2090767 B1 20110518 (EN)**

Application  
**EP 08002631 A 20080213**

Priority  
EP 08002631 A 20080213

Abstract (en)  
[origin: EP2090767A1] The soot load of a particulate filter (12) in the exhaust system of a motor vehicle is estimated by a) selecting (S2) a mission profile of the motor vehicle based on the history of one or more of its operation parameters ( $\dot{E}$ , AR); b) increasing (S7) the estimated soot load at a rate (SR) associated to the currently selected mission profile; c) determining (S4) a target fuel injection rate (TFR) of an engine of the motor vehicle based on input from a driver (S3); d) determining a limit fuel injection rate (LFR) based on a set of operation parameters comprising at least one of the engine speed ( $\dot{E}$ ) and the engine airflow (AR); e) in a time interval in which the target fuel injection rate (TFR) exceeds the limit fuel injection rate (LFR), increasing the estimated soot load (S9) at a rate (TSR) associated to an instantaneous value of at least one of said operation parameters.

IPC 8 full level  
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CPC (source: EP)  
**F02D 41/0285** (2013.01); **F02D 41/1467** (2013.01); **F02D 2200/0812** (2013.01); **F02D 2200/606** (2013.01)

Cited by  
CN112096532A; US11035281B2

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