Title (en)

METHOD FOR OPERATING A SOOT SENSOR

Title (de)

VERFAHREN ZUM BETREIBEN EINES RUSSSENSORS

Title (fr)

PROCÉDÉ SERVANT À FAIRE FONCTIONNER UN CAPTEUR DE SUIE

Publication

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Application

EP 11815758 A 20111214

Priority

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- EP 2011072778 W 20111214

Abstract (en)

[origin: WO2012080347A2] The invention relates to a method for operating a soot sensor in the exhaust gas tract of an internal combustion engine. Said soot sensor comprises an inter-digital electrode structure to which a measurement voltage is applied. Soot particles from the exhaust gas flow deposit themselves on the inter-digital electrode structure and the measuring current flowing over the soot particles and the inter-digital electrode structure is evaluated as a measurement for the soot concentration of the soot sensor. Said soot sensor comprises a heating element for burning clean the inter-digital electrode structure. The aim of the invention is to provide a method for operating a soot sensor which has good measurement results, said soot sensor should have the shortest possible idle time. To this end, a point in time for burning clean the soot sensor is determined in accordance with the operational state of the internal combustion engine and then, the burning clean of the inter-digital electrode structure starts by heating the soot sensor by means of the heating element.

IPC 8 full level

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CPC (source: EP US)

F01N 9/002 (2013.01 - EP US); **G01N 15/0656** (2013.01 - EP US); F01N 2560/05 (2013.01 - EP US); Y02T 10/40 (2013.01 - EP US)

Citation (search report)

See references of WO 2012080347A2

Citation (examination)

- EP 1225316 A2 20020724 - HOFMANN WALTER [DE]
- EP 2199553 A1 20100623 - HONDA MOTOR CO LTD [JP]
- DE 102009003091 A1 20101118 - BOSCH GMBH ROBERT [DE]

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