Title (en)

CARBON BLACK CHARGE SENSOR

Title (de

RUBLADUNGSSENSOR

Title (fr)

CAPTEUR DE CHARGE EN SUIE

Publication

EP 2193362 A2 20100609 (DE)

Application

EP 08804980 A 20081001

Priority

- EP 2008063191 W 20081001
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Abstract (en

[origin: WO2009047195A2] The invention relates to a sensor device for determining electrically conducting and/or electrically charged particles contained in a gas flow, particularly carbon black particles in the exhaust gas flow of a diesel motor, comprising at least two electrodes to be disposed in the gas flow, at least one of the electrodes being completely embedded in a non-conductive material in the region to be disposed in the gas flow. A further aspect of the invention relates to a sensor device for determining a mass flow of a medium, comprising a heating wire that is disposed such that said heating wire can be placed in the mass flow, a regulating unit or controller configured to heat the heating wire in a first measuring phase to a certain temperature above the temperature of the mass flow and to determine the mass flow via the measurement of a voltage that is required for maintaining said temperature of the heating wire, characterized by a measuring device for determining the temperature of the medium in a second measuring phase via a measurement of the resistance of a heating wire, particularly the heating wire, a controller that is configured to control the heating wire in the first measuring phase to a temperature that is a function of the temperature of the medium determined in the second measuring phase, and a correcting device configured to correct the mass flow determined from the voltage measured in the second measuring phase.

IPC 8 full level

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