Title (en)

SENSOR FOR ANALYZING AN EXHAUST GAS OF AN INTERNAL COMBUSTION ENGINE, INTERNAL COMBUSTION ENGINE, AND METHOD AND DEVICE FOR PRODUCING SUCH A SENSOR

Title (de)

SENSOR ZUM ANALYSIEREN EINES ABGASES EINER VERBRENNUNGSKRAFTMASCHINE, VERBRENNUNGSKRAFTMASCHINE SOWIE VERFAHREN UND VORRICHTUNG ZUM HERSTELLEN EINES SOLCHEN SENSORS

Title (fr)

CAPTEUR PERMETTANT D'ANALYSER UN GAZ D'ÉCHAPPEMENT D'UN MOTEUR À COMBUSTION INTERNE, MOTEUR À COMBUSTION INTERNE ET PROCÉDÉ ET DISPOSITIF DE FABRICATION DUDIT CAPTEUR

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Application

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Priority

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Abstract (en)

[origin: WO2016078817A1] The invention relates to a sensor (100) for analyzing an exhaust gas of an internal combustion engine (500). For this purpose, the sensor (100) comprises a cover element (102), which has, in a filter region (106), a plurality of pores (108) for filtering particles out of the exhaust gas, a measuring electrode (110) arranged on the cover element (102) for determining a particle concentration in the exhaust gas, a heating element (112) arranged on the cover element (102) for heating the filter region (106) and/or the measuring electrode (110), and a bottom element (104), which has at least one sensor element (118) for determining a gas concentration in the exhaust gas. The sensor element (118) is covered by the cover element (102) in order to prevent an accumulation of the particles on the sensor element (118). The sensor element (118) is fluidically coupled to an outer environment of the sensor (100) by means of the filter region (106).

IPC 8 full level

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Citation (search report)

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