

Title (en)
METHOD FOR THE PARTICLE-SIZE-SELECTIVE DETECTION OF PARTICLE NUMBERS IN THE EXHAUST GAS OF A COMBUSTION DEVICE

Title (de)
VERFAHREN ZUR PARTIKELGRÖßEN-SELEKTIVEN ERFASSUNG VON PARTIKELZAHLEN IM ABGAS EINER
VERBRENNUNGSVORRICHTUNG

Title (fr)
PROCÉDÉ DE DÉTECTION SÉLECTIVE DE TAILLES DE PARTICULE DE NOMBRES DE PARTICULES DANS LES GAZ D'ÉCHAPPEMENT
D'UN DISPOSITIF DE COMBUSTION

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Application
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Abstract (en)
[origin: WO2020057853A1] The invention relates to a method for checking the operability of a particle filter (26) in an exhaust line of a combustion device (10), on the basis of measurement signals of a particle sensor (28). The method is characterized in that on the basis of measurement signals detected in predetermined operating points of the combustion device (10), operating-point individual actual particle number values are formed, wherein the formation of the actual particle number values is done such that at least one measurement signal determined operating-point individually is assigned to an actual particle number value, which has been predetermined for this particular operating point, this particular measurement signal, and for particles of a certain size in an initial material state of the particle filter (26). The actual particle number value is compared with a particle size-individual comparison value that is stored in a control unit (18) of the combustion device (10), and the condition of an exhaust gas aftertreatment system (16) of the combustion device (10) is assessed on the basis of this comparison. An independent claim relates to a control unit (18) that is configured to carry out the method.

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