

Title (en)

OPTICAL PARTICLE SENSOR, IN PARTICULAR EXHAUST GAS SENSOR

Title (de)

OPTISCHER PARTIKELSENSOR, INSBESONDERE ABGASSENSOR

Title (fr)

CAPTEUR OPTIQUE DE PARTICULES, EN PARTICULIER CAPTEUR DE GAZ D'ÉCHAPPEMENT

Publication

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Application

**EP 19773078 A 20190920**

Priority

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Abstract (en)

[origin: WO2020088843A1] The invention relates to a particle sensor for detecting particles in the flow of a measurement gas, in particular in order to detect soot particles in the exhaust gas channel of a burner or an internal combustion engine, comprising means for generating or supplying laser light (10), means for focusing the laser light (10), and means for detecting or transferring thermal radiation, wherein the particle sensor (16) has at least one optical entrance (40) which separates a region (16.1) exposed to the measurement gas from a region (16.2) which faces away from the measurement gas and is not exposed to the measurement gas, and the means for generating or supplying laser light (10) and/or the means for detecting or transferring thermal radiation is arranged in the region (16.2) facing away from the measurement gas. The invention is characterized in that the particle sensor (16) removes a sub-flow (321) from the flow of measurement gas and supplies same to the laser focus (22), and additionally the optical entrance (40) is fluidically shielded from the sub-flow (321).

IPC 8 full level

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