

Title (en)  
LASER-INDUCED INCANDESCENT PARTICLE SENSOR COMPRISING A CONFOCAL ARRANGEMENT OF A LASER SPOT AND OF A THERMAL RADIATION SPOT

Title (de)  
MIT LASER INDUZIERTER INKANDESZENZ ARBEITENDER PARTIKELSENSOR MIT EINER KONFOKALEN ANORDNUNG EINES LASERSPOTS UND EINES TEMPERATURSTRAHLUNGSSPOTS

Title (fr)  
CAPTEUR DE PARTICULES FONCTIONNANT PAR INCANDESCENCE INDUITE PAR LASER MUNI D'UN ENSEMBLE CONFOCAL D'UN POINT LASER ET D'UN POINT DE RAYONNEMENT THERMIQUE

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Application  
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Abstract (en)  
[origin: WO2019170393A1] The invention relates to a particle sensor (16) comprising: a laser module (18) which has a laser; and a detector (26) designed to detect thermal radiation (14). The particle sensor (16) is characterised in that it has an optical device (36) which is designed to focus laser light emitted from the laser module (18) into a first spot (22), and is designed to focus thermal radiation (14) emitted from the first spot (22) into a second spot, wherein a radiation-sensitive surface of the detector (26) in the second spot or in the beam path of the thermal radiation (14) focussed onto the second spot is behind the second spot.

IPC 8 full level  
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