

Title (en)

FIRE DETECTOR WITH A SCATTERED LIGHT ARRANGEMENT IN THE REGION OF A SMOKE INLET OPENING FOR MONITORING POLLUTION

Title (de)

BRANDMELDER MIT EINER STREULICHTANORDNUNG IM BEREICH EINER RAUCHEINTRITTSÖFFNUNG ZUR VERSCHMUTZUNGSÜBERWACHUNG

Title (fr)

DÉTECTEUR D'INCENDIE PRÉSENTANT UN DISPOSITIF DE LUMIÈRE DIFFUSÉE AU NIVEAU D'UNE OUVERTURE D'ENTRÉE DE FUMÉE EN VUE DE LA SURVEILLANCE DE L'ENCRASSEMENT

Publication

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Application

**EP 16703995 A 20160212**

Priority

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Abstract (en)

[origin: WO2016150613A1] The invention relates to a fire detector (M), in particular a smoke detector, which has a detector housing (3) with a smoke inlet opening (OF), a detection unit (DET) arranged therein for fire parameters, an analyzing unit (7) for a fire alarm (AL), and a light transmitter (1) and a light receiver (2) connected thereto for monitoring the smoke inlet opening for impermissible pollution (V). According to the invention, the light transmitter and the light receiver are arranged in a scattered light arrangement. A scattered light volume (SV) which is determined by the scattered light arrangement lies in a smoke inlet opening region susceptible to pollution (V). The light transmitter is designed and oriented such that a first part (D) of a transmitted light bundle (L) traverses the region of the smoke inlet opening without striking adjacent housing parts (4, 5, 8, N). Alternatively or in addition thereto, the light transmitter is designed and oriented such that a second part (A) strikes a housing part adjoining the smoke inlet opening. The surface of the housing part is produced and oriented such that the second part striking the housing part surface is deflected away from the light receiver. A service indication (WARN) can be output by means of the analyzing unit if the scattered light (S) detected by the light receiver exceeds a minimum value.

IPC 8 full level

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