

Title (en)  
FIRE DETECTOR

Title (de)  
FEUERMELDER

Title (fr)  
DETECTEUR D'INCENDIE

Publication  
**EP 1272992 B1 20030910 (EN)**

Application  
**EP 01919696 A 20010410**

Priority  
• IB 0100591 W 20010410  
• IT PD20000083 A 20000411

Abstract (en)  
[origin: WO0178031A1] A fire detector, comprising a printed circuit board on which at least one optical transmitter and at least one optical receiver are surface-mounted with a method known commercially as SMD and arranged so as to avoid a line-of-sight configuration, their respective emission and reception fields intersecting each other. The board is associated with a box-like optical chamber which is composed of a fluid detection portion and a fluid circulation portion. The detection portion is arranged through a corresponding through hole formed in the printed circuit board and is provided with openings which are formed in the perimetric wall for the corresponding transmitters and receivers, whose respective emission and reception fields mutually intersect inside it. The circulation portion is arranged on the opposite side with respect to the detection portion and is formed perimetrically by a plurality of partitions which form access ducts for the fluid.

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**G08B 17/107**

IPC 8 full level  
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CPC (source: EP)  
**G08B 17/107** (2013.01); **G08B 17/113** (2013.01)

Cited by  
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