

Title (en)

Optical smoke detector according to the extinguish principle and method for compensating the temperature drift

Title (de)

Optischer Rauchmelder nach dem Extinktionsprinzip und Verfahren zur Kompensation von dessen Temperaturdrift

Title (fr)

Dispositif de détection de fumée selon le principe d'extinction et procédé de compensation de la dérive de température

Publication

EP 1017034 A3 20000802 (DE)

Application

EP 99117502 A 19990904

Priority

- EP 99117502 A 19990904
- CH 217298 A 19981027
- EP 98117368 A 19980914

Abstract (en)

[origin: EP1017034A2] The optical smoke detector is fitted with an optical bridge (6), which consists of a light source (7), an open measurement path, and an enclosed reference path (7'). A receiver is fitted to both paths, and coupled to these is an evaluation circuit. The optical bridge is also fitted with two circular apertures, affixed in front of the light source. When smoke is present in the measurement path, the light is distorted and the evaluation circuit triggers the alarm. An Independent claim is included for a method of compensating for the temperature drift of the optical bridge.

IPC 1-7

G08B 17/103; G08B 29/18

IPC 8 full level

G08B 17/103 (2006.01)

CPC (source: EP)

G08B 17/103 (2013.01); **G08B 17/113** (2013.01)

Citation (search report)

- [X] US 3922656 A 19751125 - HORVATH ZOLTAN, et al
- [A] EP 0631263 A1 19941228 - HEKATRON GMBH [DE]
- [A] EP 0142672 A1 19850529 - SIEMENS AG [DE]
- [A] GB 2314618 A 19980107 - APPLEBY DAVID [GB], et al
- [A] US 4266220 A 19810505 - MALINOWSKI WILLIAM J
- [A] US 4678921 A 19870707 - NAKAMURA TAKEHIRO [JP], et al
- [A] US 5381130 A 19950110 - THUILLARD MARC [CH], et al

Cited by

EP1349127A1; EP1768074A1; US11151851B1

Designated contracting state (EPC)

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