

Title (en)
Linear smoke detector

Title (de)
Linearer Rauchmelder

Title (fr)
Détecteur de fumée linéaire

Publication
EP 1265205 B1 20050119 (DE)

Application
EP 01114103 A 20010609

Priority
EP 01114103 A 20010609

Abstract (en)
[origin: EP1265205A1] The device transmits a light beam along a measurement path. A retroreflector rotates the polarization plane of an incident light beam by a defined angle. An active polarizer between transmitter and a receiver is associated with an analyzer transmissive for light with a defined polarization plane and performs controlled rotation of the polarization plane in two different planes. The receiver combines the received signals caused by light in these two planes. <??>The device has a transmitter (1) of a light beam along a measurement path, a receiver (2) and a retroreflector (3) that rotates the polarization plane of an incident light beam by a defined angle. An active polarizer (4) in the beam path after the transmitter and before the receiver is associated with an analyzer (5) transmissive for light with a defined polarization. The polarizer performs controlled rotation of the polarization plane in two different planes and the receiver combines the received signals caused by light in these two planes. <??>An Independent claim is also included for a method of operating a smoke alarm.

IPC 1-7
G08B 17/12; G08B 17/103

IPC 8 full level
G08B 17/103 (2006.01)

CPC (source: EP)
G08B 17/103 (2013.01)

Cited by
EP1443479A1; EP4042396A1; WO2021069892A1

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