Title (en)

Smoke alarm with timed evaluation of a backscattering signal, test method for functionality of a smoke alarm

Title (de)

Rauchmelder mit zeitlicher Auswertung eines Rückstreusignals, Testverfahren für Funktionsfähigkeit eines Rauchmelders

Title (fr)

Détecteur de fumée doté d'une évaluation temporelle d'un signal de rétrodiffusion, procédé de test pour la capacité fonctionnelle d'un détecteur de fumée

Publication

EP 2093734 B1 20110629 (DE)

Application

EP 08101744 A 20080219

Priority

EP 08101744 A 20080219

Abstract (en)

[origin: EP2093734A1] The smoke alarm (100) has a light transmitter (111) attached to a mounting surface of a printed circuit board (105) and transmitting an illuminating light (111a). A light receiver (112) is attached to the mounting surface adjacent to the light transmitter, and receives a measurement light (112a), which results from back-scattering of the illumination light at a measurement object located in a detection space (115). A data processing device (135) is coupled to an output of the light receiver and evaluates temporal changes of an output signal provided by the light receiver. An independent claim is also included for a method for detecting a functional capability of a smoke alarm.

IPC 8 full level

G08B 17/107 (2006.01); **G08B 29/18** (2006.01)

CPC (source: EP US)

G08B 17/107 (2013.01 - EP US); **G08B 29/145** (2013.01 - EP US); **G08B 29/22** (2013.01 - EP US); G08B 17/113 (2013.01 - EP US)

Cited by

DE102016208357A1; EP2879104A1; CN104680703A; DE102016208359B3; EP3091517A1; DE102016208358B3; US12039848B2; US9390605B2; WO2013014577A3; DE102014019773A1; EP3029647A1; US9905102B2; US11551535B1; US11935380B2; DE102015004458A1; DE102014019172A1; WO2017194367A1; US10467874B2; US11657692B1; US12125356B2; EP3029647B1; EP2423895B1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

DOCDB simple family (publication)

EP 2093734 A1 20090826; **EP 2093734 B1 20110629**; AT E515008 T1 20110715; CN 101952862 A 20110119; CN 101952862 B 20130410; DK 2093734 T3 20111010; ES 2368358 T3 20111116; HK 1153299 A1 20120323; PL 2093734 T3 20111130; US 2011057805 A1 20110310; US 8587442 B2 20131119; WO 2009103667 A1 20090827

DOCDB simple family (application)

EP 08101744 A 20080219; AT 08101744 T 20080219; CN 200980105642 A 20090216; DK 08101744 T 20080219; EP 2009051753 W 20090216; ES 08101744 T 20080219; HK 11107223 A 20110712; PL 08101744 T 20080219; US 73584509 A 20090216