Title (en)

Adapting a scanning point of a sample and hold circuit of an optical smoke detector

Title (de)

Anpassung eines Abtastzeitpunktes einer Abtast-Halte-Schaltung eines optischen Rauchdetektors

Title (fr)

Adaptation de l'instant d'échantillonage d'un circuit échantillonneur-bloqueur d'un détecteur de fumées

Publication

EP 2350991 B1 20120815 (DE)

Application

EP 08875306 A 20081111

Priority

EP 2008065324 W 20081111

Abstract (en)

[origin: WO2010054682A1] The invention relates to a smoke detector (100), comprising (a) a radiation source (120) for transmitting an illuminating radiation (120a) comprising a time sequence of radiation pulses, (b) a radiation detector (130) for receiving measurement radiation (130a) impinging on the radiation detector (130) after at least partial scattering of the illuminating radiation (120a), (c) an amplifier circuit (140) for amplifying an output signal of the radiation detector (130), (d) an analog to digital converter (156) having a sample and hold circuit (152) for converting an analog output signal of the amplifier circuit (140) into a digital measurement value (156a), and (e) a control device (150) coupled to the radiation source (120) and the sample and hold circuit (152). The control device (150) is equipped for controlling the radiation source (120) and the sample and hold circuit (152) such that the time of a sampling point in time of the sample and hold circuit (152) relative to a radiation pulse depends on the duration of the radiation pulse. The invention further relates to a method for calibrating the described smoke detector (100).

IPC 8 full level

G08B 17/107 (2006.01)

CPC (source: EP)

G08B 17/107 (2013.01)

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)

WO 2010054682 A1 20100520; BR PI0823255 A2 20150623; CN 102209981 A 20111005; CN 102209981 B 20130619; EP 2350991 A1 20110803; EP 2350991 B1 20120815; US 2011255091 A1 20111020; US 8629779 B2 20140114

DOCDB simple family (application)

EP 2008065324 W 20081111; BR PI0823255 A 20081111; CN 200880131927 A 20081111; EP 08875306 A 20081111; US 200813128672 A 20081111