

Title (en)

SMOKE ALARM AND METHOD FOR OPERATING SAME

Title (de)

RAUCHWARNMELDER UND VERFAHREN ZU DESSEN BETRIEB

Title (fr)

DÉTECTEUR DE FUMÉES ET SON PROCÉDÉ DE FONCTIONNEMENT

Publication

EP 2718917 A1 20140416 (DE)

Application

EP 12718918 A 20120427

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Abstract (en)

[origin: WO2012167858A1] The invention relates to a device and a method for operating a smoke alarm having at least one light-transmitting unit (1) and at least one light-receiver unit (6), wherein the light receiver unit (6) receives light (5) which is emitted by the light transmitting unit (1) and is scattered/reflected in at least one light measuring section (R1, R2), wherein the light measuring section (R1, R2) is arranged at least partially outside a housing which accommodates the components of the smoke alarm and in which an intensity-modulated light (2) is emitted with the light-transmitting unit (1) in a measuring step starting from a transmission starting time (T0), wherein the frequency of the intensity modulation changes over time according to a predefined modulation function (8), and the light-receiver unit (6) is tuned to an intensity modulation frequency, which is to be received, of light (5) which is received from the light measuring section (R1, R2), in such a way that starting from an adjustable reception time (TE) the tuned reception frequency changes with the same modulation function (10), and a receiver output signal (11) is detected during the frequency tuning.

IPC 8 full level

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