

Title (en)
FIRE DETECTOR HAVING A PHOTODIODE FOR SENSING AMBIENT LIGHT TO ACCELERATE THE EMISSION OF A LIKELY FIRE ALARM ON THE BASIS THEREOF

Title (de)
BRANDMELDER MIT EINER PHOTODIODE ZUR ERFASSUNG VON UMGEBUNGSLICHT, UM DAVON ABHÄNGIG DIE AUSGABE EINES MÖGLICHEN BRANDALARMS ZU BESCHLEUNIGEN

Title (fr)
DÉTECTEUR D'INCENDIE DOTÉ D'UNE PHOTODIODE POUR DÉTECTER LA LUMIÈRE AMBIANTE, DE SORTE À ACCÉLÉRER LE DÉCLENCHEMENT D'UNE ÉVENTUELLE ALARME INCENDIE EN FONCTION DU RÉSULTAT

Publication
EP 3455837 B1 20200311 (DE)

Application
EP 17720811 A 20170503

Priority
• DE 102016208359 A 20160513
• DE 102016208358 A 20160513
• DE 102016208357 A 20160513
• EP 2017060526 W 20170503

Abstract (en)
[origin: WO2017194367A1] A fire detector having a photodiode for sensing ambient light to accelerate the emission of a potential fire alarm on the basis thereof. The invention relates to a fire detector (1), having a fire sensor (5), a control unit (4) and a photodiode (6) for sensing ambient light in a spectrally limited range from 400 nm to 1150 nm. The control unit is designed to analyse a sensor signal (BS) received from the fire sensor for at least one characteristic fire variable, to evaluate said signal, and to emit a fire alarm (AL) if a fire is detected. In addition, the control unit is designed to analyse a photo signal (PD) received from the photodiode for the presence of flicker frequencies characteristic of open fire and, on the basis thereof, to accelerate the emission of a possible fire alarm by increasing a sampling rate for sensing the sensor signal from the fire sensor, by reducing a filter time (T Filter), in particular a time constant, of an evaluation filter (41) for the fire analysis and/or by reducing an alarm threshold (LEV). The fire detector can be an open scattered-light smoke detector, a closed scattered-light smoke detector or a thermal detector.

IPC 8 full level
G08B 17/107 (2006.01); **G08B 29/18** (2006.01)

CPC (source: EP US)
G08B 17/103 (2013.01 - US); **G08B 17/107** (2013.01 - EP US); **G08B 17/12** (2013.01 - EP US); **G08B 29/183** (2013.01 - EP US)

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
WO 2017194367 A1 20171116; CN 109155097 A 20190104; CN 109155097 B 20201009; EP 3455837 A1 20190320; EP 3455837 B1 20200311; US 10467874 B2 20191105; US 2019180590 A1 20190613

DOCDB simple family (application)
EP 2017060526 W 20170503; CN 201780029674 A 20170503; EP 17720811 A 20170503; US 201716300600 A 20170503