

Title (en)

SMOKE DETECTION SYSTEM AND METHOD USING A CAMERA

Title (de)

RAUCHMELDER UND RAUCHMELDEVERFAHREN MIT EINER KAMERA

Title (fr)

SYSTÈME ET PROCÉDÉ DE DÉTECTION DE FUMÉE À L'AIDE D'UNE CAMÉRA

Publication

EP 3475928 A4 20200304 (EN)

Application

EP 17821131 A 20170628

Priority

- US 201615194878 A 20160628
- US 2017039691 W 20170628

Abstract (en)

[origin: WO2018005616A1] Image-based fire detection methods are provided which include analyzing a field of view based on a plurality of images, determining if changes occur, and analyzing whether any such changes are due to smoke-like material. Changes due to large objects are ruled out, and drift in the scene or shaking of the image collection device is accounted for by the method. The methods employ representing images of the field of view with quantifiable values and comparing to thresholds established for each event, and activating an alarm if changes due to smoke-like material are detected. The fire detection methods may also include monitoring a field of view for changes, and only performing the analysis on the images if changes are detected. The monitoring and validating stages of the methods include collecting images at different sampling rates for different amounts of information.

IPC 8 full level

G08B 17/103 (2006.01); **G08B 17/00** (2006.01); **G08B 17/10** (2006.01); **G08B 17/107** (2006.01); **G08B 17/12** (2006.01)

CPC (source: EP)

G08B 17/125 (2013.01)

Citation (search report)

- [A] US 7805002 B2 20100928 - PRIVALOV GEORGE [US]
- [A] US 7456749 B2 20081125 - ANDERSON KAARE JOSEF [US]
- [A] US 2003141980 A1 20030731 - MOORE IAN FREDERICK [GB], et al
- [A] US 2011064264 A1 20110317 - CABALLERO RODRIGO E [US], et al
- See references of WO 2018005616A1

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

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