

Title (en)

Device for quick detection of fire.

Title (de)

Einrichtung für schnelle Erkennung von Feuer.

Title (fr)

Dispositif de détection rapide d'incendie.

Publication

**EP 0234961 A1 19870902 (FR)**

Application

**EP 87400011 A 19870106**

Priority

FR 8600319 A 19860110

Abstract (en)

[origin: US4861998A] A device for the rapid detection of hydrocarbon fire inside an armored vehicle. Infrared radiation resulting from the appearance of the fire is detected using lithium tantalate as a pyroelectric sensor for producing a voltage signal. A voltage pulse is produced at the beginning of the infrared radiation. Alternatively, the current signal of the pyroelectric sensor may be used and subsequently integrated. Fire is detected by the presence of both infrared and ultraviolet radiation.

Abstract (fr)

Dispositif de détection rapide d'incendie d'hydrocarbures à l'intérieur d'un véhicule blindé. Pour la détection du rayonnement infra-rouge résultant de l'apparition de l'incendie, on utilise le signal de tension d'un capteur pyroélectrique. En variante on fait appel au signal de courant qui est ensuite intégré.

IPC 1-7

**G08B 17/12**

IPC 8 full level

**G08B 17/12** (2006.01); **G08B 29/18** (2006.01)

CPC (source: EP US)

**G08B 17/12** (2013.01 - EP US); **G08B 29/183** (2013.01 - EP US)

Citation (search report)

- [X] GB 2142757 A 19850123 - GRAVINER LTD
- [A] GB 2119985 A 19831123 - SPECTRONIX LTD
- [A] GB 2118754 A 19831102 - SPECTRONIX LTD
- [A] EP 0078442 A2 19830511 - ARMTEC IND INC [US]
- [A] US 3742474 A 19730626 - MULLER P
- [A] US 4415806 A 19831115 - TAR DOMOKIS [CH]
- [A] US 3707695 A 19721226 - YAMAKA EISO
- [A] US 4384207 A 19830517 - DOCTOR ALAN P
- [A] OPTICS COMMUNICATIONS, vol. 40, no. 5, février 1982, pages 361-363, North-Holland, Amsterdam, NL; M.M. PRADHAN et al.: "Remote sensing of temperature by a TGS pyroelectric detector"

Cited by

CN106168507A

Designated contracting state (EPC)

CH DE FR GB IT LI NL

DOCDB simple family (publication)

**US 4861998 A 19890829**; DE 3787738 D1 19931118; DE 3787738 T2 19940203; EP 0234961 A1 19870902; EP 0234961 B1 19931013; FR 2592976 A1 19870717; FR 2592976 B1 19881007; IL 81222 A0 19870831; IL 81222 A 19900209

DOCDB simple family (application)

**US 121587 A 19870107**; DE 3787738 T 19870106; EP 87400011 A 19870106; FR 8600319 A 19860110; IL 8122287 A 19870109