

Title (en)
INFRARED DETECTOR FOR SPOTTING AN INTRUDER IN AN AREA

Publication
EP 0107042 B1 19870107 (DE)

Application
EP 83109377 A 19830921

Priority
CH 579582 A 19821001

Abstract (en)
[origin: ES8406766A1] For reducing the susceptibility to false alarms and for increasing the detection probability of a passive infrared detector, the actual signals obtained from a first sensor element are continuously compared in a correlator with reference or set signals stored in a read-only memory and/or with the actual signals obtained from a second sensor element monitoring the near region. The correlator delivers an output signal which corresponds to the correlation of both signals which are compared with one another. An alarm signal is triggered when the correlation exceeds a predetermined value, for instance 0.7, and the amplitude has reached a predetermined threshold. The infrared detector affords high security against giving of false alarms and a high detection probability, even in the presence of signals possessing a great amount of noise, but also delivers an alarm signal in the event the detector is attempted to be sabotaged, for instance by covering the inlet optical system.

IPC 1-7
G08B 13/18

IPC 8 full level
G08B 13/00 (2006.01); **G01V 8/20** (2006.01); **G08B 13/19** (2006.01); **G08B 13/191** (2006.01); **G08B 29/04** (2006.01); **G08B 29/18** (2006.01)

CPC (source: EP US)
G08B 13/19 (2013.01 - EP US); **G08B 29/046** (2013.01 - EP US); **G08B 29/188** (2013.01 - EP US); **Y10S 250/01** (2013.01 - EP US)

Cited by
EP0849714A1; EP2605034A1; DE4236618A1; EP0256651A3; DE19607608C2; EP0250746A3; DE3622371A1; DE19548578C2; GB2210453A; GB2210453B; EP0198551A3; GB2174224A; EP0318039A3; EP0259015A3; USRE33824E; EP0646901A1; DE3624195A1; EP0254813A3

Designated contracting state (EPC)
BE CH DE FR GB IT LI NL SE

DOCDB simple family (publication)
EP 0107042 A1 19840502; EP 0107042 B1 19870107; CA 1205158 A 19860527; DE 3369019 D1 19870212; ES 526552 A0 19840801; ES 8406766 A1 19840801; JP S5990196 A 19840524; NO 158645 B 19880704; NO 158645 C 19881012; NO 833572 L 19840402; US 4746910 A 19880524

DOCDB simple family (application)
EP 83109377 A 19830921; CA 437684 A 19830927; DE 3369019 T 19830921; ES 526552 A 19830930; JP 18094183 A 19830930; NO 833572 A 19830930; US 91505786 A 19861003