

Title (en)  
Passive infrared detector

Title (de)  
Passiv-Infrarotmelder

Title (fr)  
Détecteur infrarouge passif

Publication  
**EP 1089245 B1 20040331 (DE)**

Application  
**EP 99119496 A 19991001**

Priority  
EP 99119496 A 19991001

Abstract (en)  
[origin: US6559448B1] The passive infrared detector contains a heat-sensitive sensor and a focusing device for focusing thermal rays incident on the detector from the room under surveillance onto the sensor. The focusing device has focusing elements for surveillance regions having different positions in the room under surveillance. Each focusing element comprises a number of sub-elements, with the result that the surveillance regions are split up vertically into subzones having slightly different elevation. In a majority of the surveillance regions, the subzones overlap at most only slightly. Human being and animals are distinguished by the amplitude of the sensor signal which is proportional to the number of subzones interrupted by the object in the room under surveillance. The number of sub-elements and correspondingly the number of subzones increases with decreasing radial distance of the respective surveillance region from the detector.

IPC 1-7  
**G08B 13/193**

IPC 8 full level  
**G08B 13/193** (2006.01)

CPC (source: EP US)  
**G08B 13/193** (2013.01 - EP US)

Cited by  
US7755052B2

Designated contracting state (EPC)  
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)  
**US 6559448 B1 20030506**; AT E263402 T1 20040415; AT E263403 T1 20040415; DE 50005874 D1 20040506; DE 59909044 D1 20040506; DK 1089245 T3 20040712; EP 1089245 A1 20010404; EP 1089245 B1 20040331; ES 2218927 T3 20041116; IL 138059 A0 20011031; IL 138059 A 20040725; PT 1089245 E 20040831

DOCDB simple family (application)  
**US 66349400 A 20000918**; AT 00111473 T 20000529; AT 99119496 T 19991001; DE 50005874 T 20000529; DE 59909044 T 19991001; DK 99119496 T 19991001; EP 99119496 A 19991001; ES 99119496 T 19991001; IL 13805900 A 20000824; PT 99119496 T 19991001