

Title (en)

ELECTROMAGNETIC AND PARTICLE DETECTOR WITH REDUCED NUMBER OF CONNECTIONS

Title (de)

ELEKTROMAGNETISCHER UND TEILCHENDETEKTOR MIT VERRINGERTER ANZAHL VON VERBINDUNGEN

Title (fr)

DETECTEUR DE RAYONNEMENT ELECTROMAGNETIQUE ET DE PARTICULES A NOMBRE DE CONNEXIONS REDUIT

Publication

EP 1794623 A1 20070613 (FR)

Application

EP 05798961 A 20050912

Priority

- FR 2005050729 W 20050912
- FR 0409996 A 20040922

Abstract (en)

[origin: WO2006032807A1] The invention concerns a detecting device comprising at least one two-dimensional set of elementary sensors of semi-conductor type for transforming the energy of the radiation to be detected into electric signals. Each of the elementary sensors is provided on one of its sides with an anode and on the opposite side with a cathode, the anode and the cathode being designed to be electrically connected on a circuit for reading and operating on said signals. The anodes (103) are electrically interconnected so as to constitute a plurality of anode subsets (107, 108), said anode subsets being electrically connected at least in pair to a measuring anode path (111, 112), said anode path being designed to be looped on said reading and operating circuit. Each anode is connected to two separate measuring anode paths. The cathodes (104) are electrically interconnected so as to constitute adjacent cathode subsets, each of said cathode subsets being electrically connected to a measuring cathode path (106). The anodes belonging to two anode subsets connected to a common anode path are associated to elementary sensors whereof the cathodes belong to separate cathode subsets.

IPC 8 full level

G01T 1/29 (2006.01)

CPC (source: EP US)

G01T 1/2928 (2013.01 - EP US)

Citation (search report)

See references of WO 2006032807A1

Cited by

WO2024114633A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

FR 2875606 A1 20060324; FR 2875606 B1 20061110; EP 1794623 A1 20070613; US 2009045345 A1 20090219; US 7659515 B2 20100209; WO 2006032807 A1 20060330

DOCDB simple family (application)

FR 0409996 A 20040922; EP 05798961 A 20050912; FR 2005050729 W 20050912; US 57553505 A 20050912