

Title (en)

SCINTILLATION SOLID STATE DETECTOR, DETECTION METHOD

Title (de)

VERFAHREN ZUR DETEKTION MIT EINEM FESTKÖRPERSZINTILLATIONSDETEKTOR

Title (fr)

DETECTEUR SOLIDE PAR SCINTILLATION, METHODE DE DETECTION

Publication

EP 1272872 A1 20030108 (FR)

Application

EP 01927983 A 20010417

Priority

- FR 0101178 W 20010417
- FR 0004884 A 20000414

Abstract (en)

[origin: WO0179886A1] The invention concerns the use of a solid state detector comprising at least a YAP(Ce) crystal for measuring alpha , beta , and X-radiation, said radiation comprising at least a very low energy component, in particular beta rays whereof the energy is less than 200 keV, for example rays emitted by ^{14}C and/or Tritium (^3H), and/or X rays whereof the energy is less than 6 keV. The invention also concerns a solid state scintillation detector comprising at least a YAP(Ce) crystal and means for bringing very low energy radiation in contact with at least a YAP(Ce) crystal so as to enable detection of very low energy radiation. The invention further concerns a method for detecting said radiation.

IPC 1-7

G01T 1/20; **G01T 1/202**

IPC 8 full level

G01T 1/20 (2006.01); **G01T 1/202** (2006.01)

CPC (source: EP)

G01T 1/20 (2013.01); **G01T 1/202** (2013.01)

Citation (search report)

See references of WO 0179886A1

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)

WO 0179886 A1 20011025; AU 5486501 A 20011030; EP 1272872 A1 20030108; FR 2808092 A1 20011026

DOCDB simple family (application)

FR 0101178 W 20010417; AU 5486501 A 20010417; EP 01927983 A 20010417; FR 0004884 A 20000414