

Title (en)

IONISING RADIATION DETECTOR HAVING PROPORTIONAL MICROCOUNTERS

Title (de)

DETEKTOR FÜR IONISIERENDE STRAHLUNG MIT MIKROPROPORTIONALZÄTZLRÖHRE

Title (fr)

DETECTEUR DE RAYONNEMENTS IONISANTS A MICROCOMPTEURS PROPORTIONNELS

Publication

EP 0742954 A1 19961120 (FR)

Application

EP 95941134 A 19951123

Priority

- FR 9501548 W 19951123
- FR 9414158 A 19941125

Abstract (en)

[origin: WO9617373A1] An ionising radiation detector comprising a chamber (1) filled with a noble gas and provided with an internal proportional counter (2) defining, between itself and an upper wall of the chamber, an absorption region (A) in which the radiation is ionised. The proportional counter comprises at least one anode (6) and at least one cathode (5) that are parallel to one another and separated by a layer of insulating material (7). Both the cathode and the layer of insulating material include at least one through-hole (8) in which a substantially uniform electric field is provided to form a region where electrons produced by the ionisation of the radiation are multiplied. Said detector is useful in medical imaging, biology, crystallography and particle physics.

IPC 1-7

H01J 47/06

IPC 8 full level

G01T 1/18 (2006.01); **H01J 47/06** (2006.01)

CPC (source: EP US)

H01J 47/06 (2013.01 - EP US)

Citation (search report)

See references of WO 9617373A1

Designated contracting state (EPC)

CH DE FR GB IT LI

DOCDB simple family (publication)

WO 9617373 A1 19960606; CA 2181913 A1 19960606; CA 2181913 C 20060131; DE 69529605 D1 20030320; DE 69529605 T2 20031204; EP 0742954 A1 19961120; EP 0742954 B1 20030212; FR 2727525 A1 19960531; FR 2727525 B1 19970110; JP 3822239 B2 20060913; JP H09508750 A 19970902; US 5742061 A 19980421

DOCDB simple family (application)

FR 9501548 W 19951123; CA 2181913 A 19951123; DE 69529605 T 19951123; EP 95941134 A 19951123; FR 9414158 A 19941125; JP 51832596 A 19951123; US 67622296 A 19960819