

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.

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IPC 8 full level

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