

Title (en)

DEVICE FOR REPRESENTING IN THE FORM OF A PICTURE THE DISTRIBUTION INTENSITY OF A RADIATION

Publication

**EP 0046244 A3 19830330 (DE)**

Application

**EP 81106169 A 19810806**

Priority

DE 3031136 A 19800818

Abstract (en)

[origin: EP0046244A2] A device for representing in the form of a multi-dimensional picture the intensity distribution of a radiation contains a detector chamber, having an overpressure of a gas therein, which is designed as a drift chamber with at least parallel electrodes and annular auxiliary electrodes and as a multi-wire chamber, arranged downstream of the drift chamber, with wires stretched in a plane without intersections. This device is intended to meet the requirements to be placed in the field of medical technology such as high resolution capability and short irradiation times. For this purpose, the invention provides that, in the device for a two-dimensional representation of the incidence direction, the radiation (7) entering the detector chamber (2) runs at least approximately parallel to the plane of the wires (16) of the multi-wire chamber used as collector wires, that these wires are aligned at least approximately parallel with respect to the direction of incidence of the radiation (7) and that the electrically charged particles (18) to be recorded are positive ions of the gas. <IMAGE>

IPC 1-7

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IPC 8 full level

**H01J 47/06** (2006.01)

CPC (source: EP)

**H01J 47/062** (2013.01)

Citation (search report)

- [A] NUCLEAR INSTRUMENTS & METHODS, Band 161, Nr. 3, Mai 1979, Seiten 383-390, Amsterdam, NL. D. FANCHER et al.: "Performance of a time-projection chamber"
- [A] NUCLEAR INSTRUMENTS AND METHODS, Band 111, Nr. 1, 1. August 1973, Seiten 77-81, Amsterdam, NL. J. SAUDINOS et al.: "Localisation de particules par compteur à migration"
- [AD] NUCLEAR INSTRUMENTS AND METHODS 158, 1979, Seiten 81-88, North-Holland Publishing Co. D. FRIEDRICH et al.: "Positive ion effects in large-volume drift-chambers"

Cited by

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