Title (en)

Assembly and method for monitoring the lateral position of a beam of ionizing radiation.

Title (de)

Vorrichtung und Verfahren zur Feststellung der lateralen Lage einer ionisierenden Strahlung.

Title (fr)

Dispositif et méthode de détermination de la position latérale d'un faisceau de radiation ionisante.

Publication

EP 0322656 A1 19890705 (DE)

Application

EP 88120939 A 19881214

Priority

US 13875987 A 19871228

Abstract (en)

A transmission ion chamber assembly for detecting the lateral displacement of an ionizing beam has two ion chambers located one behind the other along the beam axis. Each chamber contains two electrode plates and a spacer which separates and electrically insulates the electrodes from each other. The electrodes of each chamber are inclined with respect to each other along a preselected measuring axis. The axes of both chambers are perpendicular to the beam axis and to each other. In operation, the collector electrodes furnish current signals which depend upon the position of the beam along the associated measuring axis. With orthogonal chambers, i.e. measuring axes, the beam position in a plane perpendicular to the beam axis can be determined and aligned, e.g. via beam steering coils surrounding the beam.

IPC 1-7

G01T 1/29; H01J 47/02

IPC 8 full level

A61N 5/10 (2006.01); **G01T 1/185** (2006.01); **G01T 1/29** (2006.01); **G21K 5/00** (2006.01); **H01J 47/02** (2006.01); **H01J 47/12** (2006.01); **H05H 9/00** (2006.01)

CPC (source: EP US)

G01T 1/185 (2013.01 - EP US); **H01J 47/02** (2013.01 - EP US)

Citation (search report)

- [AD] EP 0040589 A2 19811125 - SCANDITRONIX INSTR [SE]
- [A] US 3955089 A 19760504 - MCINTYRE RAYMOND D, et al
- [A] US 3997788 A 19761214 - BOUX RENE
- [A] NUCLEAR INSTRUMENTS AND METHODS IN PHYSICS RESEARCH, vol. 228, no. 1, December 1984, pages 45-50, Elsevier Science Publishers B.V., AmsterdamNL; J.A. BLISSETT et al.: "Development of a prototype tapered cell drift chamber"

Designated contracting state (EPC)

CH DE FR GB LI SE

DOCDB simple family (publication)

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DOCDB simple family (application)

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