Title (en)

Parallax-free gas-filled X-ray detector.

Title (de)

Parallaxenfreier gasgefüllter Röntgenstrahlen-Detektor.

Title (fr)

Détecteur gazeux pour rayons-x sans parallaxe.

Publication

EP 0340126 A1 19891102 (FR)

Application

EP 89420149 A 19890425

Priority

FR 8806018 A 19880427

Abstract (en)

The invention relates to a gas-filled X-ray detector for analysing matter by studying the diffraction of the X-rays. <??>To minimise parallax errors without using difficult-to-manufacture spherical auxiliary electrodes, it is proposed to generate a radial field throughout the gas-filled space (40) solely with the aid of entrance electrodes (36) brought to appropriate potentials and with the aid of lateral electrodes (44) also brought individually to appropriate potentials. By modifying the potentials the centre of the spherical equipotentials can be displaced to allow parallax error-free analysis of samples (20) placed at variable distances (D) from the entrance window (32) of the detector. <IMAGE>

IPC 1-7

H01J 47/00; H01J 47/06

IPC 8 full level

G01T 1/18 (2006.01); **H01J 37/244** (2006.01); **H01J 47/00** (2006.01); **H01J 47/06** (2006.01); **H01J 49/06** (2006.01)

CPC (source: EP US)

H01J 47/008 (2013.01 - EP US); **H01J 47/06** (2013.01 - EP US)

Citation (search report)

- [X] FR 2363117 A1 19780324 - ANVAR [FR]
- [X] IEEE TRANSACTIONS ON NUCLEAR SCIENCE, vol. NS-26, no. 1, février 1979, pages 146-149, IEEE; C. BOLON et al.: "A spherical drift chamber area detector for X-ray crystallography"
- [A] NUCLEAR INSTRUMENTS AND METHODS, vol. 201, no. 1, octobre 1982, pages 193-196, North-Holland Publishing Co., Amsterdam, NL; D. BADE et al.: "Development of a multiwire proportional chamber as an area sensitive detector for X-ray protein crystallography"

Designated contracting state (EPC)

DE FR GB IT NL

DOCDB simple family (publication)

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EP 89420149 A 19890425; DE 68907993 T 19890425; FR 8806018 A 19880427; JP 10713289 A 19890426; US 34362789 A 19890427