

Title (en)

Particle microcollimation device, particle detector and detection method, manufacturing method and use of said microcollimation device

Title (de)

Teilchen-Mikrocollimationsvorrichtung, Teilchendetektor und Detektionsverfahren, Herstellungsverfahren und Verwendung der Mikrocollimationsvorrichtung

Title (fr)

Dispositif de microcollimation de particules, détecteur et procédé de détection de particules, procédé de fabrication et utilisation dudit dispositif de microcollimation

Publication

EP 0732705 A1 19960918 (FR)

Application

EP 96400506 A 19960312

Priority

FR 9502911 A 19950314

Abstract (en)

A device for micro-collimation of incident particles consists of a random arrangement of micro-holes in an insulating sheet of thickness between a few microns and several millimetres. Also claimed are (i) a particle detector including the above device; (ii) a particle detection method employing the above device; and (iii) a method of fabricating the above device. Pref. the sheet consists of a material in which latent tracks can be created by heavy ion bombardment, pref. a plastics such as polycarbonate, kapton or polyimide, or consists of cleaved mica and the hole density is $<10^{-8}/\text{cm}^2>$.

Abstract (fr)

La présente invention concerne notamment un dispositif de microcollimation de particules incidentes constitué d'un ensemble de microtrous de taille de l'ordre du micromètre, percés aléatoirement, mais orientés parallèlement, dans une feuille isolante d'épaisseur comprise entre quelques micromètres et plusieurs millimètres. La présente invention concerne également un détecteur et un procédé de détection de particules, et un procédé de fabrication et l'utilisation dudit dispositif de microcollimation. <IMAGE>

IPC 1-7

G21K 1/02

IPC 8 full level

G01T 3/00 (2006.01); **G01T 7/00** (2006.01); **G21K 1/02** (2006.01)

CPC (source: EP US)

G21K 1/025 (2013.01 - EP US)

Citation (search report)

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