Title (en)

Cathode plate, position sensitive neutral particle sensor using such a cathode plate, sensing system and camera both using such a sensor.

Title (de)

Kathodenplatte; lageempfindlicher Messfühler für neutrale Teilchen mit einer derartigen Kathodenplatte; Fühlersystem und Kamera, beide mit einem derartigen Messfühler.

Title (fr)

Plaque à cathode, détecteur sensible à la position pour particules neutres utilisant une telle plaque à cathode, système détecteur et appareil photographique les deux utilisant un tel détecteur.

Publication

EP 0000271 A1 19790110 (EN)

Application

EP 78300075 A 19780623

Priority

GB 2659677 A 19770624

Abstract (en)

A position-sensitive neutral particle sensor comprises two spaced parallel cathode arrays (10, 12), each comprising a plurality of metal strips (16, 20) arranged adjacent and edge to edge, the strips in one array being orthogonal to the strips in the other array, the metal of which the cathode arrays are formed being such that an incident neutral particle is converted to a fast electron which escapes from the cathode; and an anode array (14) between and parallel to the cathode arrays and comprising a plurality of spaced wires. When a neutral particle is converted by a cathode strip to a fast electron (34) an avalanche forms and its presence can be detected in one or more strips in each cathode, so that the orthogonal position is determined.

IPC 1-7

H01J 39/29; G01T 1/29

IPC 8 full level

H01J 47/06 (2006.01)

CPC (source: EP)

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Citation (search report)

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