

Title (en)

Sheet-type dynode, electron multiplier and photomultiplier having such dynodes.

Title (de)

Dynode vom Blätter-Typ, Elektronenvervielfacher und Photovervielfacher, die mit solcher Dynoden versehen sind.

Title (fr)

Dynode du type "à feuilles", multiplicateur d'électrons et tube photomultiplicateur comportant de telles dynodes.

Publication

EP 0350111 A1 19900110 (FR)

Application

EP 89201727 A 19890629

Priority

FR 8809083 A 19880705

Abstract (en)

[origin: JPH0254859A] PURPOSE: To accurately determine the position of a detection particle by arranging respective holes of one half dynode while slightly shifting one another as to be positioned on the opposite to the center of the basic shape of the other half dynode and forming a prescribed number of photoelectron multipliers in one photoelectron multiplier. CONSTITUTION: A first and a second half dynodes d, d' are metal sheets 10, 20 and holes 11, 21 so arranged as to form regular repeated patterns of the same basic shapes 12, 22 are formed in the sheets. These holes 11, 21 are holes having upright edges and extremely easily formed. The half dynode d' for electron emission and a first half dynode d, so-called as a half dynode for electron detection, are so arranged with a mutual positioning difference as to position respective holes 11 or 21 of one half dynode d or d' on the opposite to the center 24 or 14 of the basic shape 22 or 12 of the other half dynode d' or d.

Abstract (fr)

Dynode (D) multiplicatrice d'électrons, constituée de deux demi-dynodes (d,d') parallèles, portées à un même potentiel électrique (V), et ayant la forme de feuilles métalliques (10,20) percées de trous (11,21). Selon l'invention, la deuxième demi-dynode (d'), dite demi-dynode émettrice, est recouverte d'un matériau (25) à émission secondaire, la multiplication des électrons incidents (30) se produisant sur la surface (23) de ladite feuille métallique (20) correspondante, et en ce que ladite demi-dynode émettrice (d') et la première demi-dynode (d), dite demi-dynode extractrice, sont décalées entre elles. Application aux tubes photomultiplicateurs.

IPC 1-7

H01J 43/22

IPC 8 full level

H01J 31/50 (2006.01); **H01J 43/20** (2006.01); **H01J 43/22** (2006.01)

CPC (source: EP US)

H01J 43/22 (2013.01 - EP US)

Citation (search report)

- [A] US 3265916 A 19660809 - VESTAL MARVIN L
- [A] EP 0131339 A1 19850116 - HYPERELEC [FR], et al

Cited by

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