

Title (en)

ELECTRON MULTIPLIER ELEMENT, ELECTRON MULTIPLYING DEVICE MADE UP OF THIS ELEMENT AND ITS APPLICATION TO A PHOTOMULTIPLIER TUBE

Publication

EP 0131339 B1 19880601 (FR)

Application

EP 84200994 A 19840710

Priority

FR 8311514 A 19830711

Abstract (en)

[origin: US4649314A] Electron multiplier element (11) with secondary emission of the "apertured plate" type, characterized in that, on the one hand, it consists of a first plate (12) having holes (13), which are termed multiplier holes, in which each multiplier hole (13) defines on a first surface (14) of the said first plate (12) an aperture (15) which is termed input aperture and which is larger than the aperture (16), which is termed output aperture, which is defined on the second surface (17) of the first plate (12), and, on the other hand, consists of a second plate (22) which is parallel to the first plate (12), which also comprises holes (23) which are termed auxiliary holes the aperture (25) of which is situated on a first surface (24) of the second surface (22) opposite to the second surface (17) of the first plate (12), is substantially equal to the output aperture (16) of the multiplier holes (13) and is smaller than the aperture (26) of the said auxiliary holes (23) which are defined on the second surface (27) of the second plate (22), and that the said first plate (12) and second plate (22) are each insulated from each other, the second plate (22) being brought at a potential (V1) which is larger than the potential (Vo) of the first plate (12).

IPC 1-7

H01J 43/24

IPC 8 full level

H01J 43/22 (2006.01)

CPC (source: EP US)

H01J 43/22 (2013.01 - EP US)

Cited by

GB2205438B; EP0379243A1; EP0471563A3; US5254906A; EP0428215A1; FR2654552A1; EP0345888A1; FR2632773A1; EP0230694A1; FR2592523A1; EP0264992A1; FR2604824A1; EP0389051A1; FR2644932A1; FR2608316A1; EP0350111A1; FR2634062A1; FR2599557A1; GB2193373A; GB2193373B

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

EP 0131339 A1 19850116; EP 0131339 B1 19880601; CA 1223029 A 19870616; DE 3471820 D1 19880707; FR 2549288 A1 19850118; FR 2549288 B1 19851025; JP H056301 B2 19930126; JP S6039752 A 19850301; US 4649314 A 19870310

DOCDB simple family (application)

EP 84200994 A 19840710; CA 458201 A 19840705; DE 3471820 T 19840710; FR 8311514 A 19830711; JP 14247884 A 19840711; US 62870484 A 19840709