

Title (en)

MULTIPLYING ELEMENT WITH HIGH COLLECTION EFFICIENCY, MULTIPLYING DEVICE EQUIPPED WITH SUCH AN ELEMENT AND APPLICATION TO A PHOTOMULTIPLIER

Publication

EP 0230694 B1 19900606 (FR)

Application

EP 86202323 A 19861218

Priority

FR 8519482 A 19851231

Abstract (en)

[origin: US4806827A] Electron multiplier element for secondary emission, consisting of a first metal plate (11) which has at least one multiplier hole (12) having one input aperture (13) and one output aperture (14), and a second metal plate (16) in parallel with the first plate (11) which has at least one auxiliary hole (17) disposed opposite the output aperture (14) of the multiplier hole (12). The second plate (16) being brought to an electric potential (V1) which is higher than the electric potential (V0) of the first plate. The apertures (13, 14) are such that the projection (18) of the output aperture (14) of the multiplier hole (12) in a plane which is parallel to the first metal plate (11) is at least partially located outside the corresponding projection (19) of the input aperture (13).

IPC 1-7

H01J 9/12; **H01J 43/22**

IPC 8 full level

H01J 43/20 (2006.01); **H01J 9/12** (2006.01); **H01J 43/22** (2006.01)

CPC (source: EP US)

H01J 9/12 (2013.01 - EP US); **H01J 43/22** (2013.01 - EP US); **H01J 2201/32** (2013.01 - EP US); **H01J 2201/3425** (2013.01 - EP US)

Cited by

WO2014146673A1; DE102023114613A1; WO2023232199A2

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

EP 0230694 A1 19870805; **EP 0230694 B1 19900606**; DE 3671810 D1 19900712; FR 2592523 A1 19870703; JP S62160652 A 19870716; US 4806827 A 19890221

DOCDB simple family (application)

EP 86202323 A 19861218; DE 3671810 T 19861218; FR 8519482 A 19851231; JP 30893386 A 19861226; US 91484886 A 19861003