

Title (en)
PHOTOMULTIPLIER TUBE, PHOTOMULTIPLIER TUBE UNIT, AND RADIATION DETECTOR

Title (de)
PHOTOVERVIELFACHERRÖHRE, PHOTOVERVIELFACHERRÖHRENEINHEIT UND STRAHLUNGSDETEKTOR

Title (fr)
TUBE PHOTOMULTIPLICATEUR, UNITE DE TUBE PHOTOMULTIPLICATEUR ET DETECTEUR DE RAYONNEMENT

Publication
EP 1304719 A4 20070214 (EN)

Application
EP 00922980 A 20000508

Priority
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• JP 31919898 A 19981110

Abstract (en)
[origin: WO0186690A1] A photomultiplier tube for expanding a fixing area of a bypass at a light receiving plate while increasing an effective utilization area of the light receiving plate, a photomultiplier tube unit, and a performance-improved radiation detector. The photomultiplier tube has a side surface (3c) of a light receiving plate (3) stuck outward beyond an outer wall surface (2b) of a metal bypass (2) to allow the light receiving plate (3) to project sideward beyond the bypass (2), thereby expanding a light capturing area from a light receiving surface (3d) of the light receiving plate (3). This projecting structure of the light receiving plate (3) is implemented based on a glass refractive index and designed to capture as much as possible light that has not been able to be received up to now into a photoelectric surface (3a). In addition, when using a fusion technique to join glass to metal in fixing the metal bypass (2) and the glass light receiving plate (3), the projecting structure of the light receiving plate (3) is very effective for supporting a positiveness at joining the plate (3) to the bypass (2).

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• [L] EP 1304720 A1 20030423 - HAMAMATSU PHOTONICS KK [JP]
• [L] EP 1304718 A1 20030423 - HAMAMATSU PHOTONICS KK [JP]
• [A] EP 0565247 A1 19931013 - HAMAMATSU PHOTONICS KK [JP] & JP H05290793 A 19931105 - HAMAMATSU PHOTONICS KK
• [A] EP 0589671 A1 19940330 - HAMAMATSU PHOTONICS KK [JP]
• See references of WO 0186690A1

Citation (examination)
• US 4568567 A 19860204 - FAULKNER RICHARD D [US]
• US 3951698 A 19760420 - WILSON HERBERT L, et al
• EP 0587313 A1 19940316 - HAMAMATSU PHOTONICS KK [JP]

Cited by
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