

Title (en)

RADIATION CONVERTER COMPRISING A SCINTILLATOR, A PHOTOCATHODE AND AN ELECTRON MULTIPLIER

Title (de)

STRAHLUNGSWANDLER MIT EINEM SZINTILLATOR, EINER PHOTOKATHODE UND EINEM ELEKTRONENVERVIELFACHER

Title (fr)

CONVERTISSEUR DE RAYONNEMENT COMPRENANT UN SCINTILLATEUR, UNE PHOTOCATHODE ET UN MULTIPLICATEUR À ÉLECTRONS

Publication

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Application

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Abstract (en)

[origin: WO0171381A2] The invention relates to a radiation converter, comprising a radiation absorber (2), for the generation of photons as a function of the intensity of the incident x-ray radiation and a photocathode (3), arranged within the radiation absorber (2), at a distance (a) in the direction of radiation. Said photocathode (3) is for the generation of electrodes as a function of the photons emitted by the radiation absorber (2), with a device for accelerating the electrons emitted by the photocathode to an electron detector (5). Said detector generates an electrical signal as a function of the arriving electrons. An electron multiplier (4) is arranged between the photocathode (3) and the electron detector (5), whereby the electrons emitted by the photocathode (3) may be multiplied by the electron multiplier (4).

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