

Title (en)
CONVERSION FILM FOR CONVERSION OF IONIZING RADIATION, RADIATION DETECTOR AND MANUFACTURING METHOD

Title (de)
KONVERSIONSFOLIE ZUR KONVERSION VON IONISIERENDER STRAHLUNG, STRAHLUNGSDETEKTOR UND VERFAHREN ZU HERSTELLUNG

Title (fr)
FEUILLE DE CONVERSION POUR LA CONVERSION DE RAYONNEMENT IONISANT, DÉTECTEUR DE RAYONNEMENT ET PROCÉDÉ DE FABRICATION

Publication
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Application
EP 14816175 A 20141210

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Abstract (en)
[origin: WO2015091145A1] The invention relates to a conversion film for converting ionizing radiation into light and for producing charge carriers by means of the produced light. The conversion film comprises a conversion layer having a plurality of scintillator particles embedded into a binder, wherein the binder contains at least one first organic semiconductor material. The invention further relates to a radiation detector for detecting ionizing radiation having such a conversion film and to a method for producing such a conversion film. The method for producing the conversion film according to the invention comprises the following steps: - producing a mixture from a plurality of scintillator particles and a binder containing an organic semiconductor material, - producing a stratiform structure from the mixture, and - forming a conversion layer by solidifying the stratiform structure.

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Citation (search report)
See references of WO 2015091145A1

Citation (examination)

- US 2007085010 A1 20070419 - LETANT SONIA E [US], et al
- DE 102011083692 A1 20130404 - SIEMENS AG [DE]

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