Title (en)

RADIATION DETECTOR USING A COMPOSITE MATERIAL AND METHOD FOR MAKING SAME

Title (de)

STRAHLUNGSDETEKTOR MIT EINEM VERBUNDWERKSTOFF UND HERSTELLUNGSVERFAHREN

Title (fr)

DETECTEUR DE RAYONNEMENT UTILISANT UN MATERIAU COMPOSITE ET PROCEDE DE FABRICATION DE CE DETECTEUR

Publication

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Application

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Priority

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- FR 9911883 A 19990923

Abstract (en)

[origin: WO0122505A1] The invention concerns a detector comprising layers (6) of a composite semiconductor material comprising a host-matrix made from polymer and guest particles of the semiconductor type dispersed in the host-matrix, means (22-26) for generating an electric field in said layers and a stack of sheets (4) of a first material emitting particles by interaction with the radiation, the layers alternating with the sheets, each of the layers being associated with one of the sheets, the stack having opposite surfaces, each containing edges of sheets and layers, the field generating means comprising, for each layer, a group of parallel conductor tracks (22) extending from one surface to the other, parallel to said layer, and in contact therewith.

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