

Title (en)
PLASTIC SCINTILLATOR, DETECTOR, ASSOCIATED MANUFACTURING PROCESS AND SCINTILLATION MEASUREMENT PROCESS

Title (de)
KUNSTSTOFFSZINTILLATOR, DETEKTOR, ZUGEHÖRIGES HERSTELLUNGSVERFAHREN UND SZINTILLATIONSMESSVERFAHREN

Title (fr)
SCINTILLATEUR PLASTIQUE, DÉTECTEUR, PROCÉDÉ DE FABRICATION ET PROCÉDÉ DE MESURE PAR SCINTILLATION ASSOCIÉS

Publication
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Application
EP 17718390 A 20170328

Priority

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Abstract (en)
[origin: WO2017168086A1] Material for plastic scintillation measurement comprising: - a polymer matrix; - a primary fluorophore incorporated into the polymer matrix and composed of N-(2-ethylhexyl)carbazole, the monomer form of N-(2-ethylhexyl)carbazole being spontaneously in physicochemical equilibrium with the exciplex form; and, - a secondary fluorophore. A plastic scintillator may be manufactured in a simplified manner with the material of the invention, while having optimized properties for plastic scintillation measurement. The invention also relates to the process for manufacturing the material, a part comprising the material and the associated measurement device, and also the plastic scintillation measurement process using the material.

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