

Title (en)

A SOLID STATE LIGHTING DEVICE INCLUDING CDSE AND CSPBBR3 QUANTUM DOT-DOPED GLASS NANOCOMPOSITE LAYERS AND PRODUCTION METHOD THEREOF

Title (de)

FESTKÖRPERBELEUCHTUNGSVORRICHTUNG MIT CDSE- UND CSPBBR3-QUANTENPUNKTDOTIERTEN GLASNANOKOMPOSITSCHICHTEN UND HERSTELLUNGSVERFAHREN DAFÜR

Title (fr)

DISPOSITIF D'ÉCLAIRAGE À SEMI-CONDUCTEURS COMPRENANT DES COUCHES DE NANOCOMPOSITES DE VERRE DOPÉ PAR DES POINTS QUANTIQUES CDSE ET CSPBBR3 ET SON PROCÉDÉ DE PRODUCTION

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Application

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Abstract (en)

[origin: WO2022164412A1] The present invention provides a multi-layered glass nanocomposite (100), comprising one or more first layers (101) being glass nanocomposites doped with one or more CdSe quantum dots (1), and one or more second layers (102) being glass nanocomposites doped with one or more CsPbBr₃ quantum dots (2). The present invention also provides a device (1000) which is a solid state lighting system comprising the multi-layered glass nanocomposite (100) of the invention as a radiation color converter. The present invention also provides a method for obtaining said multi-layered glass nanocomposite (100) of the invention. In addition, the present invention provides a method for obtaining a device (1000) for solid state lighting systems comprising such a multi-layered glass nanocomposite (100).

IPC 8 full level

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