

Title (en)

IR-LUMINESCENT NANOCOMPOSITE PIGMENT AND SOL-GEL PROCESS FOR MANUFACTURING THEREOF

Title (de)

IR-LUMINESZENTES NANOVERBUNDPIGMENT UND SOL-GEL-VERFAHREN ZU DESSEN HERSTELLUNG

Title (fr)

PIGMENT NANOCOMPOSITE A LUMINESCENCE INFRAROUGE ET PROCESSUS SOL-GEL POUR LE PRODUIRE

Publication

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Application

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Abstract (en)

[origin: WO2007019418A1] A family of quantum upconversion glass-ceramic nanocomposite pigments, useful for security and display applications are of particle-in-matrix construction. The embedded phase is a rare earth fluoride crystal, which is responsive for quantum upconversion, and is of nanometer size. The continuous or encapsulating phase is amorphous glass such as silica, to provide a barrier to the rare-earth fluoride crystals. The pigments are synthesized via a sol-gel process.

IPC 8 full level

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Citation (search report)

See references of WO 2007019418A1

Citation (examination)

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