

Title (en)

PHOTONIC MATERIAL WITH REGULARLY ARRANGED CAVITIES

Title (de)

PHOTONISCHES MATERIAL MIT REGELMÄSSIG ANGEORDNETEN KAVITÄTEN

Title (fr)

MATERIAU PHOTONIQUE COMPORTANT DES CAVITES AGENCEES DE MANIERE REGULIERE

Publication

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Application

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Abstract (en)

[origin: WO2007017049A1] The invention relates to photonic materials with regularly arranged cavities, containing at least one colorant. The wall material of the photonic material has dielectric properties and acts as such in an essentially non-absorbing manner for the wavelength of an absorption band of the respective colorant and is essentially transparent to the wavelength of an emission of the colorant, which can be excited by the absorption wavelength, and the cavities are formed in such a manner that radiation of the wavelength of the weak absorption band of the colorant is stored in the photonic material. The invention also relates to the use of these photonic materials as luminous substance system in an illuminant, to corresponding illuminants and to production methods.

IPC 8 full level

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Citation (search report)

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