Title (en)

SEMICONDUCTOR LIGHT CONVERTING CONSTRUCTION

Title (de)

HALBLEITER-LICHTUMWANDLUNGSKONSTRUKTION

Title (fr)

CONSTRUCTION DE CONVERSION DE LUMIERE A SEMI-CONDUCTEUR

Publication

EP 2308104 A2 20110413 (EN)

Application

EP 09770725 A 20090610

Priority

- US 2009046835 W 20090610
- US 7590408 P 20080626

Abstract (en)

[origin: WO2009158191A2] Semiconductor light converting constructions are disclosed. The semiconductor light converting construction includes a semiconductor potential well for converting at least a portion of light at a first wavelength to light at a longer second wavelength; an outer layer that is disposed on the semiconductor potential well and has a first index of refraction; and a structured layer that is disposed on the outer layer and has a second index of refraction that is smaller than the first index of refraction. The structured layer includes a plurality of structures that are disposed directly on the outer layer and a plurality of openings that expose the outer layer. The semiconductor light converting construction further includes a structured overcoat that is disposed directly on at least a portion of the structured layer and a portion of the outer layer in the plurality of openings. The overcoat has a third index of refraction that is greater than the second index of refraction.

IPC 8 full level

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CPC (source: EP KR)

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