

Title (en)

SM-ACTIVATED ALUMINATE AND BORATE PHOSPHORS

Title (de)

SM-AKTIVIERTE ALUMINAT- UND BORAT-LEUCHTSTOFFE

Title (fr)

LUMINOPHORES À BASE D'ALUMINATE ET DE BORATE ACTIVÉS AU SM

Publication

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Application

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Priority

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- EP 2010005669 W 20100915

Abstract (en)

[origin: WO2011047757A1] The invention relates to phosphors of formula (I) $(\text{Ln}_{1-a-b}\text{GdaSmb})_w\text{Mg}_x\text{Sry}(\text{Al}_{1-c}\text{Bc})_z\text{O}_{(3/2w+x+y+3/2z)}$ (I), wherein $\text{Ln} = \text{Y}, \text{La}$ and/or Lu ; $a, c = 0.0$ to 1.0 ; $0 < b < 0.2$ and $a + b < 1.0$; $w = 1.0$ to 3.0 ; $x, y = 1.0$ to 2.0 and $z > 0.0$ to 12.0 . The invention also relates to a method for producing said phosphors and to the use thereof as conversion phosphors for converting the near-UV emission of an LED.

IPC 8 full level

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Citation (examination)

SCHAIK VAN W ET AL: "INFLUENCE OF IMPURITIES ON THE LUMINESCENCE QUANTUM EFFICIENCY OF THE LAMP PHOSPHOR (CE, GD, TB)MGB5O10", JOURNAL OF THE ELECTROCHEMICAL SOCIETY, ELECTROCHEMICAL SOCIETY, INC, US, vol. 141, no. 8, 1 August 1994 (1994-08-01), pages 2201 - 2207, XP000471074, ISSN: 0013-4651

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