

Title (en)

YELLOW-GREEN TO YELLOW-EMITTING PHOSPHORS BASED ON TERBIUM-CONTAINING ALUMINATES

Title (de)

GELBGRÜNE BIS GELBE LEUCHTSTOFFE AUF BASIS TERBIUMHALTIGER ALUMINATE

Title (fr)

LUMINOPHORES ÉMETTANT DU JAUNE-VERT AU JAUNE À BASE D'ALUMINATES CONTENANT DU TERBIUM

Publication

EP 2938699 A4 20160824 (EN)

Application

EP 12890913 A 20121228

Priority

CN 2012087751 W 20121228

Abstract (en)

[origin: WO2014101073A1] Yellow-green to yellow-emitting, lutetium aluminate-based terbium (Tb) containing phosphors for use in white LEDs, general lighting, and LED and backlighting displays are disclosed herein. The phosphor may further contain gadolinium (Gd). The phosphor comprises a cerium-activated, yellow-green to yellow-emitting lutetium aluminate-based phosphor having the formula $(\text{Lu}_{1-x}\text{Ax})_3\text{Al}_5\text{O}_{12}:\text{Ce}$ wherein A is at least one of Gd and Tb and $0.1 \leq x \leq 1.0$, wherein the phosphor is configured to emit light having a peak emission wavelength ranging from about 550 nm to about 565 nm, and wherein the phosphor contains at least some Tb.

IPC 8 full level

C09K 11/80 (2006.01); **H05B 33/14** (2006.01)

CPC (source: EP US)

C09K 11/7774 (2013.01 - EP US); **H05B 33/14** (2013.01 - EP)

Citation (search report)

- [X] WO 2012122401 A2 20120913 - INTEMATIX CORP [US], et al
- [I] US 2009218585 A1 20090903 - ZHUANG WEIDONG [CN], et al
- [A] WO 2008051486 A1 20080502 - INTEMATIX CORP [US], et al
- See references of WO 2014101073A1

Designated contracting state (EPC)

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DOCDB simple family (application)

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