

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 A1 20151104 (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.

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