

Title (en)

EUROPIUM, YTTRIUM OXIDE, OR GADOLINIUM CORE/SHELL COMPOSITION, PHOSPHOR INCLUDING SAID COMPOSITION, AND METHODS FOR PREPARING SAME

Title (de)

EUROPIUM-, YTTRIUMOXID- ODER GADOLINIUMKERNSCHALEZUSAMMENSETZUNG, DIESE ENTHALTENDER LEUCHTSTOFF SOWIE HERSTELLUNGSVERFAHREN FÜR DIE ZUSAMMENSETZUNG

Title (fr)

COMPOSITION A BASE D'EUROPIUM, D'OXYDE D'YTTRIUM OU DE GADOLINIUM, DE TYPE COEUR/COQUILLE, LUMINOPHORE COMPRENANT CETTE COMPOSITION ET PROCEDES DE PREPARATION

Publication

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Application

EP 10710053 A 20100325

Priority

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- FR 0901534 A 20090330

Abstract (en)

[origin: WO2010112394A1] The invention relates to a composition, as well as to a phosphor containing said composition, including an inorganic core and a europium and yttrium oxide or gadolinium shell uniformly covering the inorganic core at a thickness greater than or equal to 300 nm. The composition is produced by: forming a suspension including the inorganic core and the pH of which is 8 to 11; adding a solution containing a europium salt and an yttrium or gadolinium salt to the suspension and maintaining the pH of the reaction medium at a constant value; and separating the formed solid and calcining same to a temperature of 1000°C at most.

IPC 8 full level

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CPC (source: EP KR US)

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Citation (search report)

See references of WO 2010112394A1

Citation (examination)

- US 5643674 A 19970701 - BRUNO SALVATORE ANTHONY [US], et al
- WO 2008012266 A1 20080131 - RHODIA OPERATIONS [FR], et al
- ALTEO: "Speciality aluminas for standard ceramics", 10 July 2015 (2015-07-10), XP055276560, Retrieved from the Internet <URL:http://www.alteo-alumina.com/sites/default/files/applications/alteo_standard_ceramics.pdf> [retrieved on 20160531]

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