

Title (en)

CERIUM AND/OR TERBIUM PHOSPHATE, OPTIONALLY WITH LANTHANUM, PHOSPHOR RESULTING FROM SAID PHOSPHATE, AND METHODS FOR MAKING SAME

Title (de)

CER- UND/ODER TERBIUMPHOSPHAT, GEGEBENENFALLS MIT LANTHAN, DARAUS RESULTIERENDER LEUCHTSTOFF UND HERSTELLUNGSVERFAHREN DAFÜR

Title (fr)

PHOSPHATE DE CERIUM ET/OU DE TERBIUM, EVENTUELLEMENT AVEC DU LANTHANE, LUMINOPHORE ISSU DE CE PHOSPHATE ET PROCEDES DE PREPARATION DE CEUX-CI

Publication

EP 2370353 A2 20111005 (FR)

Application

EP 09752387 A 20091118

Priority

- EP 2009065396 W 20091118
- FR 0806506 A 20081120

Abstract (en)

[origin: WO2010057924A2] The invention relates to a rare earth element phosphate (Ln), where Ln is either at least one rare earth element selected from cerium and terbium, or lanthanum in combination with at least one of the above two rare earth elements, having a crystalline structure of the rhabdophane type or of the monazite type with a lithium content of 300 ppm at most. The phosphate is obtained by the precipitation of a rare earth element chloride at a constant pH lower than 2, and then calcining and redispersing the same in hot water. The invention also relates to a phosphor obtained by calcining the phosphate at at least 1000 °C.

IPC 8 full level

C01B 25/45 (2006.01); **C09K 11/77** (2006.01); **C09K 11/81** (2006.01)

CPC (source: EP KR US)

C01B 25/37 (2013.01 - EP US); **C01B 25/45** (2013.01 - EP KR US); **C09K 11/77** (2013.01 - KR); **C09K 11/7778** (2013.01 - EP US); **Y10T 428/2982** (2015.01 - EP US)

Citation (search report)

See references of WO 2010057924A2

Citation (examination)

EP 0581621 A1 19940202 - RHONE-POULENC CHIMIE [FR]

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

DOCDB simple family (publication)

FR 2938526 A1 20100521; **FR 2938526 B1 20110107**; CA 2741980 A1 20100527; CA 2741980 C 20150224; CN 102216210 A 20111012; EP 2370353 A2 20111005; JP 2012509379 A 20120419; JP 5480909 B2 20140423; KR 101342358 B1 20131216; KR 101407783 B1 20140617; KR 20110079729 A 20110707; KR 20130081307 A 20130716; US 2011272635 A1 20111110; WO 2010057924 A2 20100527; WO 2010057924 A3 20100715

DOCDB simple family (application)

FR 0806506 A 20081120; CA 2741980 A 20091118; CN 200980146346 A 20091118; EP 09752387 A 20091118; EP 2009065396 W 20091118; JP 2011536856 A 20091118; KR 20117011448 A 20091118; KR 20137013973 A 20091118; US 200913129894 A 20091118