

Title (en)

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

Title (de)

CER- UND/ODER TERBIUMPHOSPHAT GEGEBENENFALLS MIT LANTHAN, LEUCHTSTOFF AUS DEM PHOSPHAT 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 2370544 A1 20111005 (FR)

Application

EP 09752385 A 20091118

Priority

- EP 2009065391 W 20091118
- FR 0806503 A 20081120

Abstract (en)

[origin: WO2010057921A1] The invention relates to a rare earth (Ln) phosphate, Ln being either at least one rare earth selected from cerium and terbium, or lanthanum in combination with at least one of the two above-mentioned rare earths, that has a crystalline structure of the rhabdophane type or of the mixed rhabdophane/monazite type with a potassium content of 7000 ppm at most. The phosphate is obtained by the precipitation of a rare earth chloride at a constant pH lower than 2, by calcination at a temperature lower than 500°C and by redispersion in hot water. The invention also relates to a phosphor obtained by the calcination at at least 1000°C of said phosphate.

IPC 8 full level

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

CPC (source: EP KR 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 2010057921A1

Citation (examination)

- GB 2124243 A 19840215 - MITSUBISHI ELECTRIC CORP
- 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 2938523 A1 20100521; **FR 2938523 B1 20110107**; CA 2741977 A1 20100527; CA 2741977 C 20140218; CN 102216422 A 20111012; EP 2370544 A1 20111005; JP 2012509241 A 20120419; JP 5635995 B2 20141203; KR 101342336 B1 20131216; KR 101382823 B1 20140408; KR 20110079728 A 20110707; KR 20130081305 A 20130716; US 2011272633 A1 20111110; WO 2010057921 A1 20100527

DOCDB simple family (application)

FR 0806503 A 20081120; CA 2741977 A 20091118; CN 200980146347 A 20091118; EP 09752385 A 20091118; EP 2009065391 W 20091118; JP 2011536853 A 20091118; KR 20117011447 A 20091118; KR 20137013887 A 20091118; US 200913129691 A 20091118