

Title (en)

USE AS PHOSPHOR DOT IN A PLASMA OR X-RAY SYSTEM OF A LANTHANUM PHOSPHATE COMPRISING THULIUM

Title (de)

ANWENDUNG ALS LEUCHTMITTEL IN EINEM PLASMASYSTEM ODER RÖNTGENSTRAHLENSYSTEM VON EINEM LANTHANUM-PHOSPHAT MIT THULIUM

Title (fr)

UTILISATION COMME LUMINOPHORE DANS UN SYSTEME A PLASMA OU A RAYONNEMENT X, D'UN PHOSPHATE DE LANTHANE COMPRENANT DU THULIUM

Publication

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Application

EP 98951544 A 19981023

Priority

- FR 9802275 W 19981023
- FR 9713367 A 19971024

Abstract (en)

[origin: FR2770223A1] Thulium-containing lanthanum phosphate is used as a blue-emitting phosphor in an X-ray or plasma system.- DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for: - (i) an X-ray or plasma system which includes a thulium-containing lanthanum phosphate as phosphor; - (ii) a lanthanum phosphate and a lanthanum phosphate-based phosphor which contain thulium and which consist of particles of 1-20 microns average size with a dispersion index of less than 0.6; and - (iii) preparation of the above lanthanum phosphate by introducing a solution of lanthanum, thulium and optionally gadolinium salts into a phosphate ion-containing solution of pH less than 3, controlling the pH at a constant value of less than 2 during precipitation, and then recovering and optionally thermally treating the precipitate.- Preferred Feature: The lanthanum phosphate contains 0.1-10 (especially 0.5-5) atom % thulium and may also contain gadolinium

IPC 1-7

C09K 11/81

IPC 8 full level

G21K 4/00 (2006.01); **C01B 25/45** (2006.01); **C09K 11/77** (2006.01); **C09K 11/81** (2006.01)

CPC (source: EP KR US)

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