

Title (en)

HIGHLY LUMINOUS LIGHT-EMITTING MATERIAL AND MANUFACTURING METHOD THEREOF

Title (de)

STARK LEUCHTENDES LICHEMITTIERENDES MATERIAL UND HERSTELLUNGSVERFAHREN DAFÜR

Title (fr)

MATIERE PHOTOEMETTRICE TRES LUMINEUSE ET SON PROCEDE DE FABRICATION

Publication

EP 1464690 A9 20041229 (EN)

Application

EP 02793450 A 20021227

Priority

- JP 0213819 W 20021227
- JP 2001401992 A 20011228

Abstract (en)

[origin: US2004137266A1] A photoluminescent material is formed by curing a blend of a transparent base material and a photoluminescent pigment component, wherein the viscosity of the transparent base material is 1 Pa.s(20° C.) or more and is added in an amount of 7 to 95 wt %. Luminescence performance is further improved by taking in consideration the relation between the internal structure of a molding and its luminescence performance, thereby achieving a luminescence of predetermined brightness for an extended period of time.

IPC 1-7

C09K 11/00; C09K 11/08; C03C 14/00; C04B 14/22; C04B 14/30; C04B 14/36; C04B 16/04; C04B 20/00; C04B 26/00; C08L 33/04

IPC 8 full level

C03C 4/12 (2006.01); **C03C 14/00** (2006.01); **C04B 14/22** (2006.01); **C04B 14/30** (2006.01); **C04B 14/36** (2006.01); **C04B 16/04** (2006.01); **C04B 20/00** (2006.01); **C04B 24/28** (2006.01); **C04B 26/00** (2006.01); **C04B 26/02** (2006.01); **C08L 33/04** (2006.01); **C09K 11/00** (2006.01); **C09K 11/02** (2006.01); **C09K 11/08** (2006.01); **C04B 111/80** (2006.01)

CPC (source: EP KR US)

C03C 4/12 (2013.01 - EP US); **C03C 14/004** (2013.01 - EP US); **C04B 14/22** (2013.01 - EP US); **C04B 24/28** (2013.01 - EP US); **C04B 26/02** (2013.01 - EP US); **C09K 11/00** (2013.01 - KR); **C09K 11/02** (2013.01 - EP US); **C09K 11/08** (2013.01 - KR); **C09K 11/643** (2013.01 - EP US); **C03C 2214/04** (2013.01 - EP US); **C03C 2214/30** (2013.01 - EP US); **C04B 2111/807** (2013.01 - EP US); **C04B 2201/10** (2013.01 - EP US)

Citation (search report)

See references of WO 03057796A1

Cited by

CN103602262A

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AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LI LU MC NL PT SE SI SK TR

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US 2004137266 A1 20040715; **US 7074345 B2 20060711**; AU 2002359941 A1 20030724; AU 2002359941 B2 20050421; CA 2450364 A1 20030717; CA 2450364 C 20081118; CN 1264947 C 20060719; CN 1505674 A 20040616; EP 1464690 A1 20041006; EP 1464690 A4 20070711; EP 1464690 A9 20041229; HK 1065329 A1 20050218; JP 2005298529 A 20051027; KR 100900727 B1 20090605; KR 20040069974 A 20040806; MX PA03011709 A 20041206; MY 139216 A 20090828; NO 20035702 D0 20031219; NO 20035702 L 20040218; RU 2003137233 A 20050610; RU 2325422 C2 20080527; TW 200301280 A 20030701; TW I225498 B 20041221; WO 03057796 A1 20030717; ZA 200309864 B 20041222

DOCDB simple family (application)

US 48127604 A 20040211; AU 2002359941 A 20021227; CA 2450364 A 20021227; CN 02809128 A 20021227; EP 02793450 A 20021227; HK 04108045 A 20041018; JP 0213819 W 20021227; JP 2001401992 A 20011228; KR 20037013783 A 20031022; MX PA03011709 A 20021227; MY PI20024912 A 20021227; NO 20035702 A 20031219; RU 2003137233 A 20021227; TW 91137423 A 20021226; ZA 200309864 A 20021227