

Title (en)
Plasma display panel with terbium(III)-activated phosphor

Title (de)
Plasmabildschirm mit einem Terbium(III)-aktivierten Leuchtstoff

Title (fr)
Ecran à plasma avec luminophore activé par du terbium(III)

Publication
EP 1156507 A3 20040915 (DE)

Application
EP 01000145 A 20010515

Priority
DE 10024836 A 20000519

Abstract (en)
[origin: EP1156507A2] Plasma screen consists of a front plate (1) with a glass plate (3), a dielectric layer (4) and a protective layer (5); a support plate (2) having a phosphor layer (10) containing a red, blue and green Tb³⁺-activated phosphor; a ribbed structure (13) dividing the chamber between the front plate and the support plate into plasma cells filled with a gas; electrode arrays (6,7,11) on the front plate and the support plate for producing quiet electrical discharges in the cells; and a green colored filter layer (8). Preferred Features: The green colored filter layer contains copper phthalocyanine or a derivative of it. An additional red or blue colored filter layer is arranged opposite the regions of the phosphor layer.

IPC 1-7
H01J 17/16; H01J 17/49; H01J 5/16

IPC 8 full level
G02B 5/22 (2006.01); **C09K 11/78** (2006.01); **C09K 11/79** (2006.01); **C09K 11/80** (2006.01); **C09K 11/81** (2006.01); **C09K 11/84** (2006.01); **C09K 11/86** (2006.01); **H01J 5/16** (2006.01); **H01J 11/02** (2006.01)

CPC (source: EP US)
H01J 5/16 (2013.01 - EP US); **H01J 2211/42** (2013.01 - EP US)

Citation (search report)
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Designated contracting state (EPC)
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EP 1156507 A2 20011121; **EP 1156507 A3 20040915**; **EP 1156507 B1 20090408**; CN 1242448 C 20060215; CN 1325125 A 20011205; DE 10024836 A1 20011122; DE 50114813 D1 20090520; JP 2002033055 A 20020131; KR 20010105211 A 20011128; TW I230730 B 20050411; US 2002041156 A1 20020411; US 6573654 B2 20030603

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EP 01000145 A 20010515; CN 01121253 A 20010516; DE 10024836 A 20000519; DE 50114813 T 20010515; JP 2001145752 A 20010516; KR 20010026666 A 20010516; TW 90112521 A 20010524; US 86031401 A 20010518