

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 B1 20090408 (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 Tb<sup>3+</sup>-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 8 full level  
**G02B 5/22** (2006.01); **H01J 17/16** (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); **H01J 17/49** (2006.01)

CPC (source: EP US)  
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Cited by  
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Designated contracting state (EPC)  
DE FR GB

DOCDB simple family (publication)  
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