

Title (en)  
Plasma display panel with protective layer

Title (de)  
Plasmabildschirm mit Schutzschicht

Title (fr)  
Ecran à plasma avec couche protectrice

Publication  
**EP 1154456 A2 20011114 (DE)**

Application  
**EP 01000140 A 20010509**

Priority  
DE 10023341 A 20000512

Abstract (en)  
Protective layer of the plasma screen is made from crystalline diamond, aluminum nitride, aluminum gallium nitride, boron nitride and tetrahedral amorphous carbon. Plasma screen comprises a front plate (1) with a glass plate (3) on which a dielectric layer (4) and a protective layer (5) are applied; a support plate (2) equipped with a phosphor layer (9); a ribbed structure (12) which divides the space between the front plate and the support plate into plasma cells which are filled with a gas; and electrode arrays (6, 7, 10) arranged on the front plate and the support plate for producing quiet electrical discharges in the plasma cells. Preferred Features: The gas is xenon in an amount of over 7 volume %.

Abstract (de)  
Die Erfindung beschreibt einen Plasmabildschirm mit einer Schutzschicht (5) aus Materialien mit niedriger Elektronenaffinität und hoher Sputterresistenz. <IMAGE>

IPC 1-7  
**H01J 17/04**; H01J 17/49; H01J 17/06

IPC 8 full level  
**H01J 11/12** (2012.01); **H01J 11/40** (2012.01)

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