Title (en)
    BI-SUBSTRATE PLASMA PANEL

Title (de)
    PLASMA ANZEIGETAFEL MIT ZWEI SUBSTRATE

Title (fr)
    PANNEAU A PLASMA BI-SUBSTRAT

Publication
    EP 0968512 B1 20030416 (FR)

Application
    EP 99900920 A 19990114

Priority
    • FR 9900056 W 19990114
    • FR 9800558 A 19980120

Abstract (en)
    [origin: FR2773907A1] Distance between two adjoining face plate recesses belonging to the same pixel is greater than the gap between two adjacent X electrodes, allowing for the thickness of the gas-filled space between the two face plates to be greater than that required when the two recesses are substantially separated from the gap. A bisubstrate-type alternating plasma color display panel (PDP) comprises two face plates (2, 3) arranged opposite each other to form a space (13) intended to be filled with a gas. One of the face plates (3) has parallel X electrodes (X1-X5) separated by a gap (px), covered by at least one luminophore zone (B1-B3), and the other face plate (2) has at least one Y electrode (Y1a-Y2b). The luminophore zones are interlinked by at least one recess (Ep1-Ep8) where an X electrode and a Y electrode intersect, in order to localize discharges generated in the gas between the two electrodes. A color pixel (P) is formed by adjoining recesses located in the plane of the Y electrode in adjacent luminophore zones. For improved light output, the distance (L) between two adjoining recesses (Ep1, Ep2) belonging to the same pixel is greater than the gap (px) between two adjacent X electrodes, allowing for the thickness (H0) of the gas-filled space to be greater than that required when the two recesses are substantially separated from the gap.

IPC 1-7
    H01J 17/49

IPC 8 full level
    H01J 11/00 (2006.01); **H01J 11/02** (2006.01); **H01J 11/12** (2012.01); **H01J 11/20** (2012.01); **H01J 11/42** (2012.01); **H01J 17/49** (2006.01)

CPC (source: EP KR US)
    H01J 11/12 (2013.01 - EP US); **H01J 11/20** (2013.01 - KR); **H01J 11/42** (2013.01 - EP US); H01J 2211/323 (2013.01 - EP US)

Designated contracting state (EPC)
    DE FR GB IT NL

DOCDB simple family (publication)
    FR 2773907 A1 19990723; **FR 2773907 B1 20000407**; CN 1133193 C 20031231; CN 1256009 A 20000607; DE 69906885 D1 20030522; DE 69906885 T2 20040311; EP 0968512 A1 20000105; EP 0968512 B1 20030416; JP 2001516498 A 20010925; KR 100540620 B1 20060110; KR 20000075901 A 20001226; US 6124676 A 20000926; WO 9936934 A1 19990722

DOCDB simple family (application)
    FR 9800558 A 19980120; CN 99800047 A 19990114; DE 69906885 T 19990114; EP 99900920 A 19990114; FR 9900056 W 19990114; JP 53683299 A 19990114; KR 19997007981 A 19990902; US 38127799 A 19990920