

Title (en)

Discharge cells between barrier walls of alternating current discharge type plasma display panel

Title (de)

Entladungszellen zwischen den Trennwänden einer Plasma-Anzeigevorrichtung vom Wechselstrom-Entladungs-Typ

Title (fr)

Cellules à décharge entre les parois formant barrières d'un panneau d'affichage à plasma du type à décharge de courant alternatif

Publication

EP 1263014 A1 20021204 (EN)

Application

EP 01113012 A 20010528

Priority

EP 01113012 A 20010528

Abstract (en)

In an alternating current discharge type plasma display panel (PDP) a plurality of parallel barrier walls (34) are formed on the top surface of a back substrate (31) of the PDP and barrier walls (34) are disposed corresponding to cross-points of X electrodes and Y electrodes on a front substrate (32) of the PDP. A structure comprises a plurality of discharge cells (41) between the adjacent barrier walls (34) having smaller width corresponding to the X and Y electrodes for forming a large first space, a plurality of non-discharge cells (42) each between the adjacent discharge cells (41) for forming a small second space served as a gas channel between the adjacent discharge cells (41), and a junction between one discharge cell (41) and the adjacent non-discharge cell (42), whereby energy released from a gas discharge in the discharge cells (41) is concentrated within the discharge cells (41) for increasing discharge efficiency. <IMAGE>

IPC 1-7

H01J 17/16; **H01J 17/49**

IPC 8 full level

H01J 11/12 (2012.01); **H01J 11/36** (2012.01)

CPC (source: EP)

H01J 11/12 (2013.01); **H01J 11/36** (2013.01); **H01J 2211/365** (2013.01)

Citation (search report)

- [XY] WO 0046832 A1 20000810 - FUJITSU LTD [JP], et al
- [X] US 6008582 A 19991228 - ASANO MASAOKI [JP], et al
- [X] PATENT ABSTRACTS OF JAPAN vol. 2000, no. 04 31 August 2000 (2000-08-31)
- [Y] PATENT ABSTRACTS OF JAPAN vol. 2000, no. 24 11 May 2001 (2001-05-11)

Cited by

CN1294611C; EP1435639A3; US7605537B2; US7315122B2; US7323818B2; US7683545B2; US7208875B2; US7589466B2; US7208876B2; US7327083B2; US7425797B2; US7911416B2

Designated contracting state (EPC)

DE FR GB IT NL

DOCDB simple family (publication)

EP 1263014 A1 20021204

DOCDB simple family (application)

EP 01113012 A 20010528