

Title (en)
PLASMA DISPLAY PANEL

Title (de)
PLASMAANZEIGEVORRICHTUNG

Title (fr)
ECRAN A PLASMA

Publication
EP 1258024 A4 20051109 (EN)

Application
EP 00971869 A 20001027

Priority
• KR 0001225 W 20001027
• KR 19990047639 A 19991029

Abstract (en)
[origin: WO0131675A1] A PDP improves discharge efficiency by reducing a discharge voltage and increasing a volume of a plasma. The PDP includes an opaque metal fence-type electrode electrically connected to first and second electrodes in each pixel of an upper substrate, and extended toward the second substrate. As a result, the discharge voltage is reduced by minimizing a loss of the plasma generated during the discharge in an individual unit pixel. As the electrode area is widened, a plasma formation space is increased and plasma energy loss is decreased, thereby performing stabilized space discharge. Moreover, interaction between adjacent pixels is prevented by individualizing the unit pixels by sidewalls. A size of the pixels is decreased to obtain a high quality screen.

IPC 1-7
H01J 17/49; H01J 11/02

IPC 8 full level
H01J 11/02 (2006.01); **H01J 11/12** (2012.01); **H01J 11/22** (2012.01); **H01J 11/24** (2012.01); **H01J 11/26** (2012.01); **H01J 11/34** (2012.01); **H01J 17/49** (2006.01)

CPC (source: EP KR)
H01J 11/12 (2013.01 - EP); **H01J 11/22** (2013.01 - KR); **H01J 11/24** (2013.01 - EP KR); **H01J 11/36** (2013.01 - KR); **H01J 2211/245** (2013.01 - EP)

Citation (search report)
• [X] US 5742122 A 19980421 - AMEMIYA KIMIO [JP], et al
• [X] PATENT ABSTRACTS OF JAPAN vol. 1999, no. 13 30 November 1999 (1999-11-30) & US 6339292 B1 20020115 - HA HONG JU [KR]
• [X] PATENT ABSTRACTS OF JAPAN vol. 018, no. 116 (E - 1515) 24 February 1994 (1994-02-24)
• See references of WO 0131675A1

Designated contracting state (EPC)
DE FR GB IT NL

DOCDB simple family (publication)
WO 0131675 A1 20010503; CN 1156872 C 20040707; CN 1384971 A 20021211; DE 60044729 D1 20100902; EP 1258024 A1 20021120; EP 1258024 A4 20051109; EP 1258024 B1 20100721; JP 2003513416 A 20030408; JP 3663416 B2 20050622; KR 100651822 B1 20061130; KR 20010039312 A 20010515

DOCDB simple family (application)
KR 0001225 W 20001027; CN 00815057 A 20001027; DE 60044729 T 20001027; EP 00971869 A 20001027; JP 2001534177 A 20001027; KR 19990047639 A 19991029