

Title (en)

Flat type plasma discharge display device and production method thereof

Title (de)

Flache Plasmaentladungsanzeigevorrichtung und deren Herstellungsverfahren

Title (fr)

Dispositif d'affichage plat à décharge plasma et procédé de production dudit dispositif

Publication

**EP 1071111 A1 20010124 (EN)**

Application

**EP 00402118 A 20000724**

Priority

JP 20953299 A 19990723

Abstract (en)

In a flat type display device, first and second substrates (1,2) are disposed facing with each other, with a first electrode group (31) comprising a plurality of first electrodes (21) to serve as one of discharge electrodes, formed on the first substrate (1), and a plurality of partition walls (4) arranged parallel with a certain interval, and a second electrode group (32) comprising a plurality of second electrodes (22) to serve as the other one of the discharge electrodes, formed on the second substrate (2). Then, the second electrodes (22) are formed at least on one side surface of the partition walls (4) except the top surface, or formed in the partition walls (4) such that one side rim faces to at least one side surface of the partition walls (4) or is disposed in the vicinity of the side surface so that the plasma discharge display by the cathode glow discharge is executed. The power consumption is reduced and the brightness is enhanced. <IMAGE>

IPC 1-7

**H01J 17/49**; **H01J 9/24**

IPC 8 full level

**H01J 9/02** (2006.01); **H01J 9/24** (2006.01); **H01J 11/12** (2012.01); **H01J 11/16** (2012.01); **H01J 11/22** (2012.01); **H01J 11/24** (2012.01); **H01J 11/32** (2012.01); **H01J 11/34** (2012.01)

CPC (source: EP KR)

**H01J 9/241** (2013.01 - EP); **H01J 11/14** (2013.01 - EP); **H01J 11/16** (2013.01 - EP); **H01J 11/26** (2013.01 - KR); **H01J 11/36** (2013.01 - KR); **H01J 11/40** (2013.01 - EP)

Citation (search report)

- [E] EP 1045421 A1 20001018 - SONY CORP [JP]
- [A] PATENT ABSTRACTS OF JAPAN vol. 1996, no. 08 30 August 1996 (1996-08-30)

Cited by

EP1734554A3; US7812536B2

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

**EP 1071111 A1 20010124**; JP 2001035389 A 20010209; KR 20010029965 A 20010416

DOCDB simple family (application)

**EP 00402118 A 20000724**; JP 20953299 A 19990723; KR 20000041275 A 20000719