

Title (en)

Flat-panel type picture display device with electron propagation ducts

Title (de)

Flache Bildwiedergabeeinrichtung mit Elektronenfortpflanzungskanälen

Title (fr)

Dispositif de reproduction d'images du type à panneau mince muni de canaux de propagation d'électrons

Publication

EP 0580244 B1 19971008 (EN)

Application

EP 93202129 A 19930720

Priority

- EP 93202129 A 19930720
- EP 92202260 A 19920723

Abstract (en)

[origin: EP0580244A1] Flat-panel type picture display device having a luminescent screen (7) and a large number of electron propagation ducts (11) operating by means of electron wall interaction. Electrons are withdrawn from the ducts (11) by means of an addressing system (100), whereafter these electrons are directed towards desired locations on the luminescent screen (7). An apertured spacer plate (102,103) of electrically insulating material for passing electrons is arranged between the addressing system (100) and the screen (7). To enable large voltage differences to be applied across the dimension of thickness of the spacer plate (102,103), the spacer plate (102,103) is provided with a high-ohmic layer (14), or with a pattern of a low-ohmic material, or with an equalization layer (15) at one side and with a low-ohmic layer at the other side, and at least the walls of the apertures are preferably coated with a material (18) having a low secondary emission. <IMAGE>

IPC 1-7

H01J 29/82; **H01J 31/12**

IPC 8 full level

H01J 29/02 (2006.01); **H01J 31/12** (2006.01)

CPC (source: EP)

H01J 29/028 (2013.01); **H01J 31/126** (2013.01); **H01J 2329/8625** (2013.01); **H01J 2329/863** (2013.01); **H01J 2329/864** (2013.01); **H01J 2329/8645** (2013.01)

Cited by

US5646479A; US5578899A; US5859502A; US6049165A; US6107731A; FR2838118A1; US5844354A; USRE40103E; US5650690A; US5990614A; US5477105A; US5576596A; US5725787A; US5742117A; US6153973A; EP0690472A1; AU685270B2; US5760538A; EP0683920A4; EP0886294A3; US5903094A; US5798604A; EP0851457A1; US6104136A; US5543683A; US5541473A; US5667418A; US6489718B1; US6406346B1; US6420824B1; US5675212A; US5865930A; US5916396A; US5985067A; US6157123A; US5811919A; US5532548A; US5614781A; US5746635A; WO9726674A1; WO9934390A1; WO03084890A1; WO9835375A1; US6353280B1; US6274972B1; WO9800852A1; WO9630926A1; WO9602933A1

Designated contracting state (EPC)

DE FR GB IT NL

DOCDB simple family (publication)

EP 0580244 A1 19940126; **EP 0580244 B1 19971008**

DOCDB simple family (application)

EP 93202129 A 19930720