Title (en)

Flat-panel type picture display device with electron propagation ducts.

Title (de)

Flache Bildwiedergabeanordnung mit Elektronenfortpflanzungskanälen.

Title (fr)

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

Publication

EP 0580244 A1 19940126

Application

EP 93202129 A 19930720

Priority

- EP 93202129 A 19930720
- EP 92202260 A 19920723

Abstract (en)

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 Electrons are withdrawn from the ducts (11) by means of an addressing system (100), whereafter these electrons are directed towards desired locations on the luminescent screen (7).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)

Citation (search report)

- [YP] EP 0496450 A1 19920729 - PHILIPS NV [NL]
- [YD] EP 0464937 A1 19920108 - PHILIPS NV [NL]
- [A] US 4101802 A 19780718 - ANDREVSKI ZYGMUNT MARIAN
- [A] PATENT ABSTRACTS OF JAPAN vol. 11, no. 384 (E-565)15 December 1987 & JP-A-62 150 640 (MITSUBISHI) 4 July 1987

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