

Title (en)

Uniforming the potential electron emission Of a cathode of a flat screen with microtips

Title (de)

Vergleichmässigung der potentiellen Elektronenemission einer Kathode eines flachen Mikrospitzen-Bildschirms

Title (fr)

Uniformisation de l'émission électronique potentielle d'une cathode d'écran plat à micropointes

Publication

EP 0867908 A1 19980930 (FR)

Application

EP 98410033 A 19980326

Priority

FR 9704097 A 19970328

Abstract (en)

The cathode structure of a flat display screen includes a substrate on which there are columns (15) of individually polarisable cathode conductors. These are associated with a resistive layer (11) on which electronic emission micropoints (2) are deposited. There is also provision to annul the effective lateral electric field between two neighbouring columns which are held at different potentials. Between two neighbouring columns there is an inter-column conductive track which is intended to be polarised to a potential at least equal to the minimal polarisation potential of the cathode conductors. These inter-column conductive tracks may be connected together by one of their ends. The structure may also comprise an insulating layer carried on the cathode conductors associated with the resistive layer. A grid conductor layer is then deposited on the insulating layer.

Abstract (fr)

L'invention concerne une cathode d'écran plat de visualisation du type comportant, sur un substrat, des colonnes (15) de conducteurs de cathode polarisables individuellement et associés à une couche résistive sur laquelle sont déposées des micropointes (2) d'émission électronique, et comportant des moyens pour annuler un champ électrique latéral éventuel entre deux colonnes voisines portées à des potentiels différents.
<IMAGE>

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H01J 1/30

IPC 8 full level

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Citation (search report)

- [A] FR 2708380 A1 19950203 - FUTABA DENSHI KOGYO KK [JP]
- [A] EP 0713236 A1 19960522 - TEXAS INSTRUMENTS INC [US]

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