

Title (en)

FIELD EMISSION DISPLAY HAVING DISCHARGE ELECTRON EMITTER

Title (de)

FELDEMISSIONSANZEIGE MIT ENTLADUNGS-ELEKTRONENEMITTER

Title (fr)

AFFICHEUR A EMISSION DE CHAMP POURVU D'UN EMETTEUR D'ELECTRONS DE DECHARGE

Publication

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Application

EP 01939321 A 20010522

Priority

- US 0116666 W 20010522
- US 61436700 A 20000712

Abstract (en)

[origin: WO0205307A1] A field emission display (100, 200, 300, 400) includes a spacer (106) defining a surface (105); a charging electron emitter (116); an anode (125) disposed to receive electrons (130) emitted by charging electron emitter (116), wherein anode (125) is designed to be operated at an operating voltage greater than about 1000 volts relative to charging electron emitter (116), and wherein a portion of electrons (130) emitted by charging electron emitter (116) for reception by anode (125) cause electrostatic charging of surface (105) of the spacer (106); and a discharge electron emitter (109, 209, 409) designed to discharge charged spacer surface (105) while the voltage at anode (125) is equal to the operating voltage. Discharge electron emitter (109, 209, 409) is disposed intermediate spacer (106) and charging electron emitter (116) and is preferably made from carbon nanotubes.

IPC 1-7

H01J 29/02; H01J 31/12

IPC 8 full level

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CPC (source: EP KR)

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