

Title (en)
FLAT PICTURE DISPLAY TUBE

Publication
EP 0061525 B1 19860205 (DE)

Application
EP 81109051 A 19811027

Priority
DE 3112200 A 19810327

Abstract (en)
[origin: US4435672A] Flat picture tube, including a front plate and a back plate vacuum-tightly connected to the front plate defining an evacuated envelope, a control matrix of line conductors and column conductors respectively extended in planes parallel to the front plate dividing the evacuated envelope into a forward post acceleration space and a rear electron storage space having electrically conducting rear and side walls, the control matrix of conductors having crossings with electron passage openings formed in the vicinity thereof, at least one thermal cathode in the rear electron storage space having an emission surface, at least one grid-shaped pulling anode each being associated with a respective one of the at least one thermal cathode and each covering the emission surface of the respective at least one thermal cathode at a substantially constant spacing, at least one other anode disposed in the forward post acceleration space, a fluorescent-material layer disposed on the other anode being excitable by electrons and being at a positive potential of several kV relative to the cathode potential in operation of the tube, at least some of the conductors of the control matrix being disposed so as to face the rear electron storage space and being addressed sequentially, information for an addressed line conductor being simultaneously given to all of said column conductors, and in operation of the tube the rear and side walls of the rear electron storage space and unaddressed line conductors being at potentials permitting electrons emitted into the rear electron storage space to pass unaccepted.

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H01J 31/12

IPC 8 full level
H01J 31/12 (2006.01); **H01J 31/15** (2006.01)

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