

Title (en)
Flat cathode ray tube.

Title (de)
Flache Kathodenstrahlröhre.

Title (fr)
Tube cathodique plat.

Publication
EP 0153784 A1 19850904 (EN)

Application
EP 85200213 A 19850220

Priority
GB 8405231 A 19840229

Abstract (en)
A flat cathode ray tube (10) having a micro-channel plate electron multiplier (26) spaced a short distance from a fluorescent screen (24) applied to a substantially flat faceplate (20). A deflection electrode array (28) is disposed behind and spaced from the electron multiplier (26) so as to be parallel therewith. An electron gun (36) is disposed laterally of the space (40) between the electron multiplier (26) and the deflection electrode array (28) and an electron beam (38) produced by the electron gun (36) enters the space (40) along a path of movement substantially parallel to the deflection electrode array (28). Magnetic scanning means (42) are provided to deflect the electron beam (38) in a plane parallel to the deflection electrode array (28). The magnetic scanning means (42) enables a range of different screen shapes and sizes to be made without the risk of deflection defocusing at the edges of the screen and the deflection electrode array (28) enables the depth of the tube envelope to be substantially independent of the screen size.

IPC 1-7
H01J 31/12

IPC 8 full level
H01J 29/76 (2006.01); **H01J 31/12** (2006.01)

CPC (source: EP)
H01J 31/124 (2013.01)

Citation (search report)

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- DE 3105310 A1 19811203 - SONY CORP [JP]
- EP 0107217 A1 19840502 - PHILIPS ELECTRONIC ASSOCIATED [GB], et al
- ELECTRONIC ENGINEERING, vol. 55, January 1983, London "Towards the thin CRT" pages 9-10 *Page9, column4 - page 10, column 5 *

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EP0234604A3

Designated contracting state (EPC)
DE FR GB IT

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EP 0153784 A1 19850904; EP 0153784 B1 19880817; DE 3564512 D1 19880922; ES 540697 A0 19851216; ES 8603661 A1 19851216; GB 2155237 A 19850918; GB 8405231 D0 19840404; JP S60207234 A 19851018

DOCDB simple family (application)
EP 85200213 A 19850220; DE 3564512 T 19850220; ES 540697 A 19850226; GB 8405231 A 19840229; JP 3541785 A 19850226