Title (en)

SPACE-SAVING CATHODE RAY TUBE EMPLOYING ELECTROSTATICALLY AMPLIFIED DEFLECTION

Title (de)

RAUMSPARENDE KATHODENSTRAHLRÖHRE MIT ELEKTROSTATISCH VERSTÄRKTER ABLENKUNG

Title (fr)

TUBE CATHODIQUE DE FAIBLE ENCOMBREMENT A DEVIATION AMPLIFIEE PAR VOIE ELECTROSTATIQUE

Publication

EP 1175690 A1 20020130 (EN)

Application

EP 00930202 A 20000501

Priority

- US 0011465 W 20000501
- US 13191999 P 19990430
- US 16065499 P 19991021
- US 55879900 A 20000426

Abstract (en)

[origin: WO0067286A1] A cathode ray tube includes an electron gun directing electrons towards a faceplate having an electrode biased at screen potential. The electron beam is magnetically deflected to scan across the faceplate to impinge upon phosphors thereon to produce light depicting an image or information. An electrode between the tube neck and the faceplate is biased at or above screen potential. As a result, the electrons of the electron beam are additionally deflected electrostatically so that a greater total deflection is obtained than is provided by the magnetic deflection yoke. Another electrode proximate the faceplate is biased at or below screen potential to direct electrons towards the faceplate, thereby to increase the landing angle of the electron beam thereon.

IPC 1-7

H01J 31/12

IPC 8 full level

H01J 29/92 (2006.01); **H01J 29/70** (2006.01); **H01J 29/72** (2006.01); **H01J 29/81** (2006.01); **H01J 31/12** (2006.01); **H01J 31/20** (2006.01)

CPC (source: EP KR)

H01J 29/70 (2013.01 - EP); **H01J 29/72** (2013.01 - EP); **H01J 31/12** (2013.01 - EP KR); **H01J 31/128** (2013.01 - EP); **H01J 31/203** (2013.01 - EP); H01J 2229/582 (2013.01 - EP); H01J 2229/587 (2013.01 - EP); H01J 2229/88 (2013.01 - EP)

Citation (search report)

See references of WO 0067286A1

Designated contracting state (EPC)

DE FR IT

DOCDB simple family (publication)

WO 0067286 A1 20001109; AU 4806300 A 20001117; CN 1363110 A 20020807; EP 1175690 A1 20020130; JP 2002543574 A 20021217; KR 20020013853 A 20020221

DOCDB simple family (application)

US 0011465 W 20000501; AU 4806300 A 20000501; CN 00808470 A 20000501; EP 00930202 A 20000501; JP 2000616038 A 20000501; KR 20017013740 A 20011026