

Title (en)

A deflection unit having a distortion correcting coil in a cathode ray tube apparatus

Title (de)

Ablenkeinheit mit Verzerrungskorrekturspule in einer Kathodenstrahlröhre

Title (fr)

Unité de déflexion ayant une bobine de correction de distorsion dans une tube à rayons cathodiques

Publication

**EP 0730290 A1 19960904 (EN)**

Application

**EP 96102999 A 19960228**

Priority

JP 3972795 A 19950228

Abstract (en)

A cathode ray tube apparatus is provided with correcting coils that correct distortion caused in an image on a fluorescent screen which is scanned by electron beams deflected by a deflection device. In this cathode ray tube apparatus, correcting coils (33, 34) are disposed near the deflection center in the deflection unit and are formed as low inductance of 1mH or less electrically independent from the deflection unit. Further, the correcting coils (33, 34) are connected to the distortion correcting current source provided independent from a main deflection current supply source that supplies an electric current to main deflection coils (30, 31) in the deflection unit, and generate the almost uniform magnetic field by the electric current supplied from the distortion correcting current supply source. Further, a first inductance element connected to the deflection coils is so magnetically coupled to a second inductance element connected to a correcting coils as to compensate induced electro magnetic force which is produced due to an interlinkage of the deflection magnetic fields. <IMAGE>

IPC 1-7

**H01J 29/70**

IPC 8 full level

**H01J 29/70** (2006.01)

CPC (source: EP KR)

**H01J 29/70** (2013.01 - KR); **H01J 29/702** (2013.01 - EP)

Citation (search report)

- [A] US 4703232 A 19871027 - NIEUWENDIJK JORIS A M [NL], et al
- [A] US 3689860 A 19720905 - BAUZHIS ALBERTAS VATSLOVOVICH, et al
- [A] US 5070280 A 19911203 - OKUYAMA NOBUTAKA [JP], et al

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

**EP 0730290 A1 19960904**; **EP 0730290 B1 19980520**; CN 1066850 C 20010606; CN 1139817 A 19970108; DE 69600297 D1 19980625; DE 69600297 T2 19981217; KR 100199455 B1 19990615; KR 960032565 A 19960917; MY 120102 A 20050930; TW 307884 B 19970611

DOCDB simple family (application)

**EP 96102999 A 19960228**; CN 96106099 A 19960228; DE 69600297 T 19960228; KR 19960005515 A 19960228; MY PI9600684 A 19960227; TW 85102751 A 19960306