

Title (en)

Colour display tube comprising an inline electron gun

Title (de)

Farbbildröhre mit In-line-Elektronenstrahlerzeugungssystem

Title (fr)

Tube image couleur muni d'un canon à électrons en ligne

Publication

**EP 0487139 B1 19990224 (EN)**

Application

**EP 91202928 A 19911112**

Priority

NL 9002515 A 19901119

Abstract (en)

[origin: EP0487139A1] A colour display tube comprising an in-line electron gun which has a first and a second lens electrode which produce an electron-optical lens field for focusing the electron beams on a display screen of the cathode ray tube, one of said lens electrodes having a correction element (29) for correcting the astigmatism of the lens field, the correction element having three apertures (30,31,32), the outer apertures of which are formed such that, in operation, an electric field having a six-pole component is generated for the outer electron beams in the correction element. As a result thereof, the outer electron beams produce an improved image on the display screen. The six-pole fields generated in the correction element correct the negative effect of six-pole fields occurring in the lens field. In an embodiment, the outer apertures (30,32) are in the shape of a trapezium. <IMAGE>

IPC 1-7

**H01J 29/56**; **H01J 29/62**

IPC 8 full level

**H01J 29/48** (2006.01); **H01J 29/56** (2006.01); **H01J 29/62** (2006.01)

CPC (source: EP)

**H01J 29/566** (2013.01); **H01J 29/628** (2013.01)

Citation (examination)

US 4626738 A 19861202 - GERLACH HANS G [NL]

Cited by

US5710479A; EP0710975A1; EP0624894A1; US5517078A; WO9621939A1

Designated contracting state (EPC)

DE FR GB IT

DOCDB simple family (publication)

**EP 0487139 A1 19920527**; **EP 0487139 B1 19990224**; DE 69130917 D1 19990401; DE 69130917 T2 19990916; JP 3420778 B2 20030630; JP H04267037 A 19920922; NL 9002515 A 19920616

DOCDB simple family (application)

**EP 91202928 A 19911112**; DE 69130917 T 19911112; JP 30329091 A 19911119; NL 9002515 A 19901119