

Title (en)

Multiple beam electron discharge tube having beam convergence and beam-to-beam compression compensation.

Title (de)

Mehrstrahlelektronenentladungsröhre mit Mitteln zur Konvergenzierung und Kompensation der Strahlkompression.

Title (fr)

Tube à décharge à faisceaux multiples muni de moyens de convergence et de compensation de la compression des faisceaux.

Publication

EP 0244826 A2 19871111 (EN)

Application

EP 87106502 A 19870505

Priority

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Abstract (en)

The invention concerns a multiple beam electron discharge tube (16) comprising beam-producing means (24) for producing plural beams of electrons directed along a beam axis (26) in the tube (16) toward a display screen (28, 30) positioned at one end of the tube (16); deflection means (32) for deflecting the electron beams relative to the beam axis (26) to produce an image on the display screen; convergence means positioned between the beam-producing means (24) and the deflection means (32) for converging the electron beams, the convergence means including a first electrode structure (10) that is electrically isolated from and positioned upstream of a second electrode structure (36) that has a limiting aperture through which the electron beams propagate; and first biasing means for providing between the first and second electrode structures a first potential difference of an amount that directs through the limiting aperture a substantial number of the electrons in each one of the beams.

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