

Title (en)

Color cathode ray tube and component thereof and method of manufacturing same.

Title (de)

Farbbildkathodenstrahlröhre, Komponente dafür und ihr Herstellungsverfahren.

Title (fr)

Tube à rayons cathodiques couleur, composant pour ledit tube et méthode de fabrication.

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Application

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Priority

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Abstract (en)

A novel color selection electrode assembly is utilized in screening a pattern of phosphor areas upon the faceplate of a color cathode ray tube. The faceplate, which is formed of a material having a predetermined temperature coefficient of expansion, has registration affording means. The aforesaid assembly comprises an auxiliary mount formed of a material having a temperature coefficient of expansion greater than that of the faceplate and has a central opening of such span as to enable the mount to surround the periphery of the faceplate. Index bosses, cooperable with the faceplate registration affording means, are detachably secured to the mount. A planar metal foil having a predetermined pattern of apertures and formed of a material having a temperature coefficient of expansion not greater than that of the mount is secured to the mount. The index bosses cooperate with the registration affording means on the envelope to permit repeated precise registrations between the foil and the faceplate to facilitate screening of the phosphor pattern as well as to facilitate mating of the electrode assembly to the faceplate. Finally, the invention contemplates a method of utilizing the electrode assembly for screening a phosphor pattern as well as methods of making a color cathode by tube having such an electrode assembly.

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