

DISPLAY APPARATUS HAVING AN ENHANCED RESOLUTION
SHADOW MASK AND METHOD OF MAKING SAMEABSTRACT

A display apparatus (8) comprises a color CRT (10) having an evacuated envelope (11) with a faceplate panel (12) sealed to one end of a funnel (15) that is closed at the other end by a neck (14). The faceplate panel has a luminescent screen (22) on an interior surface thereof. A shadow mask (25) is located in proximity to the screen. The shadow mask comprises a metal sheet (39) having a central portion (36) and an exterior portion (38) with a plurality of apertures (40, 43) therethrough. An electron gun (26) is disposed within the neck for generating and directing electron beams (28) toward the screen. A deflection yoke (30) is disposed around the envelope at the junction of the neck and the funnel. The yoke deflects the beams to scan a raster across the screen. The display apparatus is improved over other, prior devices in that the apertures (43) in the exterior portion of the mask, on the screen-facing side thereof, have openings (45) that are elongated in the direction of the incident electron beams and offset relative to the corresponding openings (44) on the electron gun-facing side of the mask. A method of making the mask employs photoetching.

FIGURE 2

This Sheet Has Been Replaced

