

INLINE ELECTRON GUN HAVING IMPROVED EXPANDED FOCUS LENS ELECTRODES

Abstract

An improved inline electron gun (10) of the invention includes a plurality of electrodes (16, 18, 20, 22, 24, 26) spaced from three cathodes (14). The electrodes form at least a beam forming region and a main focus lens in the paths of three electron beams, a center beam and two side beams. The main focus lens is formed by the facing portions of the two electrodes (24, 26). The improvement comprises the facing portions of the main focus electrodes including a first part (38), and a second part (40) positioned within the first part. The first part includes a single larger aperture (42) therein. The second part includes three inline apertures (48, 50, 52) therein. The first part includes four spaced ledges (44), and the second part is attached to the four ledges.

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FIGURE 9