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Abstract of the Disclosure

A deflection system comprises a variable gain amplifier (32) for a luminance component (V1) of a video signal. A first differentiator (34) differentiates the amplified luminance component. An output amplifier (36) modulates beam scan velocity of an electron beam by energizing an auxiliary horizontal deflection yoke (20) responsive to the differentiated luminance component (V3). A second differentiator (38) differentiates the differentiated luminance component (V3). An integrator (40) integrates the twice differentiated luminance component (V4). The output of the integrator (40) is a gain control signal (V5). The variable gain amplifier (32) has a gain which varies responsive to the gain control signal (V5). The gain varies inversely with the frequency content of the luminance component (V1). The second differentiator (38) and integrator (40) form a feedback loop. The feedback loop has a sufficiently large time constant relative to level transitions of the luminance component (V1) that the deflection signal (V3) corresponds to the first derivative of the luminance component (V1) independent of the variable gain.

FIGURE 4

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