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(54) Title: A METHOD AND SYSTEM FOR IMPROVING IMAGE QUALITY ON AN INTERLACED VIDEO DISPLAY

(57) Abstract

The present invention provides a method and system for reducing flicker within an interlaced image (fig. 1). The method and system comprises identifying an area of the interlaced image where flicker needs to be reduced (fig. 3) and adaptively adjusting a pattern of pixels derived from a non-interlaced spatial relationship of the interlaced image within the area based upon characteristics of the image (fig. 5). A flicker filter (10) is provided which utilizes an adaptive technique whereby pixel-blending (18) characteristics are constantly changed within the image depending on particular image attributes. It is unique in that high vertical resolution is maintained for detailed image content such as text and most graphics, while flicker is effectively reduced on image content that is flicker prone. The filter (18) is based on psycho-visual studies and simulations performed by the company as well as numerous prior flicker filter implementations. This has achieved the goal to maximize vertical resolution, enhancing text and graphics sharpness while still suppressing noticeable flicker.

