

Summary

In PCT/EP91/01702 a method for vertical sharpness improving using a luminance level dependent deflection is described. But special problems in connection with interlace sources for the input signal are not considered. The deflection is uniform for all lines.

Interlace-progressive upconverted pictures will have an ambiguous vertical transition along horizontal structures within the interpolated lines. The vertical transition reaching over two lines leads nevertheless to a significant reduction of sharpness in vertical direction. Since there is only the interpolated line which is uncertain with its amplitude, only this line should be deflected in vertical direction. Furthermore the vertical deflection is restricted to horizontal structures or real vertical transitions, respectively. In order to have a high noise immunity of this sensitive processing the resulting luminance amplitude of the shifted line as well as the vertical deflection is strongly dependent on the current video signal (soft decision).

Fig. 2

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