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ABSTRACT

ADAPTIVE CORING FOR VIDEO PEAKING



162162

A processor for enhancing an input luminance signal including:

- 5 a means for calculating a chroma edge value associated with the input
luminance signal;
- a means for measuring a luminance gradient associated with the input
luminance signal;
- a peaking filter for processing the input luminance signal;
- 10 a gain adjustment circuit having a gain function that is adjustable relative to
the calculated chroma edge value, the gain adjustment circuit being operable to
adjust the magnitude of the output of the peaking filter wherein:
 - in a first range of luminance gradients, the output is an attenuated
version of the input;
 - in a second range of luminance gradients the output is directly
15 proportional to the input;
 - in a third range of luminance gradients, the output is inversely
proportional to the input;

wherein said enhanced luminance signal is the sum of the input and output of the peaking filter.