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(54) Title: LUMA/CHROMA SEPARATION FILTER WITH COMMON DELAY ELEMENT

(57) Abstract

A composite video input signal is combined with a noise reduction signal to form a noise reduced first video signal which is delayed by multiple time periods of (i) one line less one-half color cycle, (ii) one line and (iii) one line plus one-half color cycle to form respective ones of first, second and third time delayed signals. The first and third delayed signals are combined to form an average signal from which a subtractor subtracts the composite video input signal. The resultant difference signal is limited to form the noise reduction signal. The noise reduced first video signal and the second delayed video signal are combined in an output circuit to provide noise reduced and separated chrominance and luminance output signals.

