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ABSTRACTADAPTIVE COMB FILTERS AND METHODS OF
SEPARATING VIDEO SIGNAL COMPONENTS

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An adaptive comb filter for separating at least one component of a video signal includes a filter input terminal (1) for receiving the video signal, a first delay device (2) for delaying the video signal by a first interval to produce a first delayed video signal, a
10 second delay device (3) for delaying the video signal by a second interval to produce a second delayed video signal, a first signal subtractor (4) for producing a first difference signal proportional to a difference between the video signal and the first delayed video signal, a second subtractor (5) for producing a second difference
15 signal proportional to a difference between the first delayed video signal and the second delayed video signal, a first signal summing device (28) for producing a first summation signal proportional to a summation of the first difference signal and the second difference signal, a signal selecting device (23) for controllably selecting one
20 of the first difference signal, the second difference signal and the first summation signal as the separated component of the video signal, a second summing device (11) for producing a second summation signal proportional to a summation of the video signal and the first delayed video signal, a third summing device (12) for producing a third
25 summation signal proportional to a summation of the first delayed video signal and the second delayed video signal, and a controller (35) for controlling the selection of the separated component of the video signal by the signal selecting device based upon relative magnitudes of the second summation signal and the third summation
30 signal. In addition a method of separating a chrominance signal from a composite colour video signal is provided.

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