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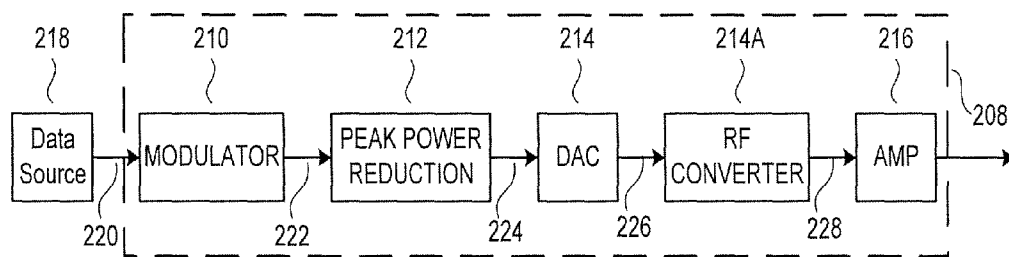


FIG. 12

(57) Abstract: A signal processing system according to various aspects of the present invention includes an excursion signal generator, a scaling system and a filter system. The excursion signal generator identifies a peak portion of a signal that exceeds a threshold and generates a corresponding excursion signal. The scaling system applies a real scale factor to contiguous sets of excursion samples in order to optimize peak-reduction performance. The filter system filters the excursion signal to remove unwanted frequency components from the excursion signal. The filtered excursion signal may then be subtracted from a delayed version of the original signal to reduce the peak. The signal processing system may also control power consumption by adjusting the threshold. The signal processing system may additionally adjust the scale of the excursion signal and/or individual channel signals, such as to meet constraints on channel noise and output spectrum, or to optimize peak reduction. The magnitude threshold, excursion signal and/or individual channel signals may also be adaptively adjusted based on, for example, a channel signal quality such as a noise level specification.



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A. CLASSIFICATION OF SUBJECT MATTER

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B. FIELDS SEARCHED

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Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

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C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6,928,121 B2 (MACFARLANE SHEARER, III et al) 09 August 2005 (09.08.2005), column 5 lines 1-55, column 6 lines 40-60, column 7 lines 1-50, column 8 lines 30-55, column 9 lines 45-65, column 10 lines 1-35, column 10 lines 55-67, column 11 lines 1-35, column 11 lines 60-67, column 12 lines 15-65, column 13 lines 15-40, and column 14 lines 20-60.	1-240
X	US 2005/0163248 A1 (BERANGI et al) 28 July 2005 (28.08.2005), paragraphs [0018], [0041]-[0044], [0049], [0055], [0065], [0067]-[0069], [0077], [0081]-[0087].	1-240

Further documents are listed in the continuation of Box C.

See patent family annex.

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"P" document published prior to the international filing date but later than the priority date claimed	

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