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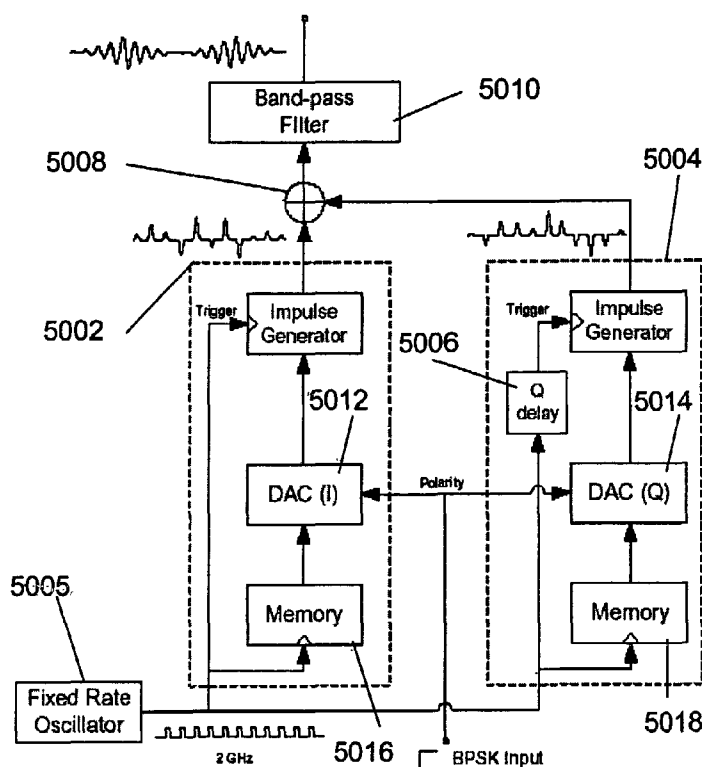
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[Continued on next page]

(54) Title: METHOD AND APPARATUS FOR GENERATING RF WAVEFORMS HAVING AGGREGATE ENERGY WITH DESIRED SPECTRAL CHARACTERISTICS



(57) Abstract: The present invention relates to a method and system that emulates a desired waveform by producing a time profile (5005) of the desired waveform, which is characterized by a plurality of sample values, and generating a plurality of RF waveforms, each RF waveform of the plurality of RF waveforms having a polarity (5012, 5014) and scaled energy based on a corresponding one of the plurality of sample values, to produce an aggregate RF energy (5008) having spectral characteristics that approximate the spectral characteristics of the desired waveform.



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# INTERNATIONAL SEARCH REPORT

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## A. CLASSIFICATION OF SUBJECT MATTER

IPC: **H04B 1/00**( 2006.01);**H04L 27/00**( 2006.01)

USPC: 375/130,135,139,146,295

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 375/130,135,139,146,295

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

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

IEEE and google.com

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 2002/0064245 A1 (MCCORKLE) 30 May 2002 (30.05.2002) paragraphs 0010, 0022	1-18,20,28-35,39-42,47-53,56-72,74-89 and 91-100
Y	US 2002/0097790 A1 (DRESS, Jr. et al) 25 July 2002 (25.07.2002) paragraph 0010	1-18,20,28-35,39-42,47-53,56-72,74-89 and 91-100
Y	US 5,808,962 (STEINBERG et al) 15 September 1998 (15.09.1998) column 14, lines 25-27	6

☐ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

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