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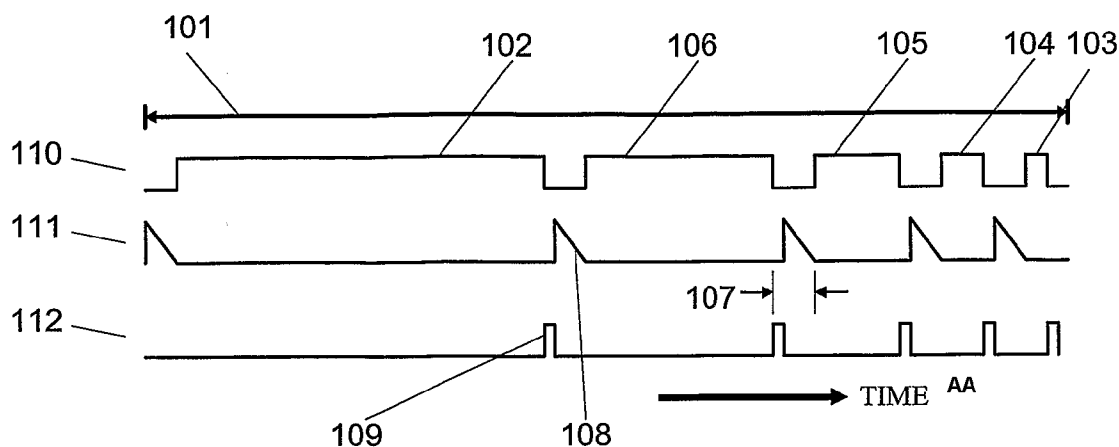
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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: ENHANCED BANDWIDTH DATA ENCODING METHOD



(57) Abstract: The encoding and processing of data for many applications can be rendered more tractable when the encoding method can independently manipulate two or more parameters that result, by conjunction, in an accurately posted data value precisely where it is expected. From a data standpoint, this would entail dividing an n-width digital word into separate fractional words and processing the subsets consecutively and independently, where the distinction between these fractional words has an explicit bearing on the information being borne. For example, an 8-bit word can be decomposed into two 4-bit words, half of which are processed while the transmission source is at full intensity, the other half being processed while the transmission source is at 1/16th intensity, thereby recovering the entire dynamic range of the original 8-bit word while reducing the bandwidth and cycle speed necessary for the transducer to be driven by the input signal.

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US05/32573

A. CLASSIFICATION OF SUBJECT MATTER

IPC(8) - H04Q 03/06 (2007.01)

USPC - 370/503

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)

IPC(8) - H04Q 03/06 (2007.01)

USPC - 370/503; 375/240

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)

Patbase

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X ---	US 5,018,167 A (PERELMAN) 21 May 1991 (21.05.1991) entire document	1-3,5-10,12-15
Y		4,11
Y	US 2004/0120025 A1 (LEHOTY) 24 June 2004 (24.06.2004) entire document	4,11
A	US 6,587,507 B1 (CHUI et al) 01 July 2003 (01.07.2003) entire document	1-15

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

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"A" document defining the general state of the art which is not considered to be of particular relevance

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Date of the actual completion of the international search

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