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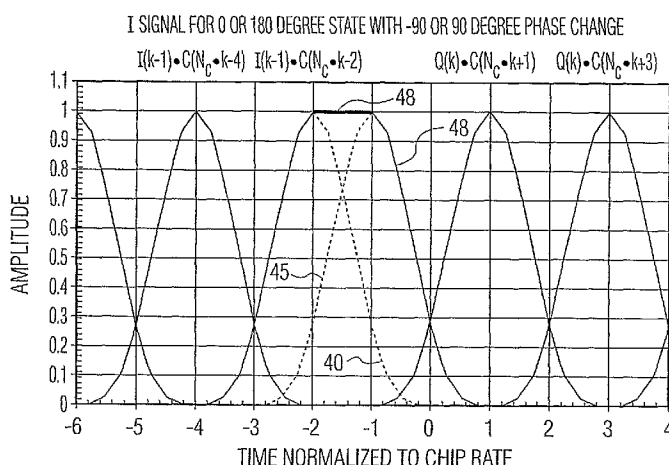
— with international search report

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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: PHASE MAPPING FOR QPSK/QBL-MSK WAVEFORM



(57) Abstract: A method is described of pulse shaping a modulated sequence spread signal having serially formatted in-phase (I) and quadrature (Q) waveforms, each waveform includes a predetermined number of chips per symbol. The method includes (a) examining adjacent chips of the I and Q waveforms at a symbol boundary; (b) determining that one of the I or Q waveforms, at the symbol boundary, includes two adjacent first and second chips separated by a single chip period, where the first chip belongs to a previous symbol and the second chip belongs to a present symbol; (c) determining whether the first and second chips are of the same value; (d) if step (c) determines that the chips are of the same value, then extending a peak value between the first and second chips, and zeroing the other waveform of the I or Q waveform during the extended duration of the peak value; and (e) if step (c) determines that the chips are of opposite values, then zeroing one of the first chip or second chip, and inserting a chip into the other waveform of the I or Q waveform during the duration of the zeroed one pulse. Step (e) includes inserting the chip into the other waveform, wherein the inserted chip has a value that is the same as an immediately previous chip value; and extending a peak value between the immediately previous chip and the inserted chip to provide a flat-top there-between.



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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER
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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)
 H04L H04B

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 practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

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X	US 5 818 867 A (RASMUSSEN DONALD J [US] ET AL) 6 October 1998 (1998-10-06) cited in the application	1-10
A	abstract; figures 4,5 column 5, lines 9-40	11-22
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Date of the actual completion of the international search

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C(Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
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INTERNATIONAL SEARCH REPORT

Information on patent family members

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