(54) Title: SYSTEM AND METHOD FOR SIGNAL PHASE CORRECTION

_Figure 2_

(57) Abstract: A method and apparatus for correcting a phase of a phase-modulated signal for blind demodulation. The method and apparatus generally include the creation of a plurality of angle bins, wherein each constellation point of the phase-modulated signal is assigned to an angle bin, depending on its phase angle. A histogram is formed of the angle bins and cross correlated with a template signal model histogram. The maximum value of the cross correlation determines a correction angle by which the phase angle of all the phase-modulated constellation points is multiplied.
Declarations under Rule 4.17:
— as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(U))
— as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(Ui))

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Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
WEST (DB=USPAT, USPGPB, EPAB, JPAD), Google search, terms including correlation, constellation, signal, phase, histogram, template, error, correction angle, I, Q, Fourier transform, inverse Fourier transform, time

C DOCUMENTS CONSIDERED TO BE RELEVANT

Category* Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No
A US 6,359,938 B1 (KEEVILL et al) 19 March 2002 (19 03 2002) 1-17
A US 2005/0193047 A1 (Fu et al) 01 September 2005 (01 09 2005) 1-17

Further documents are listed in the continuation of Box C

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