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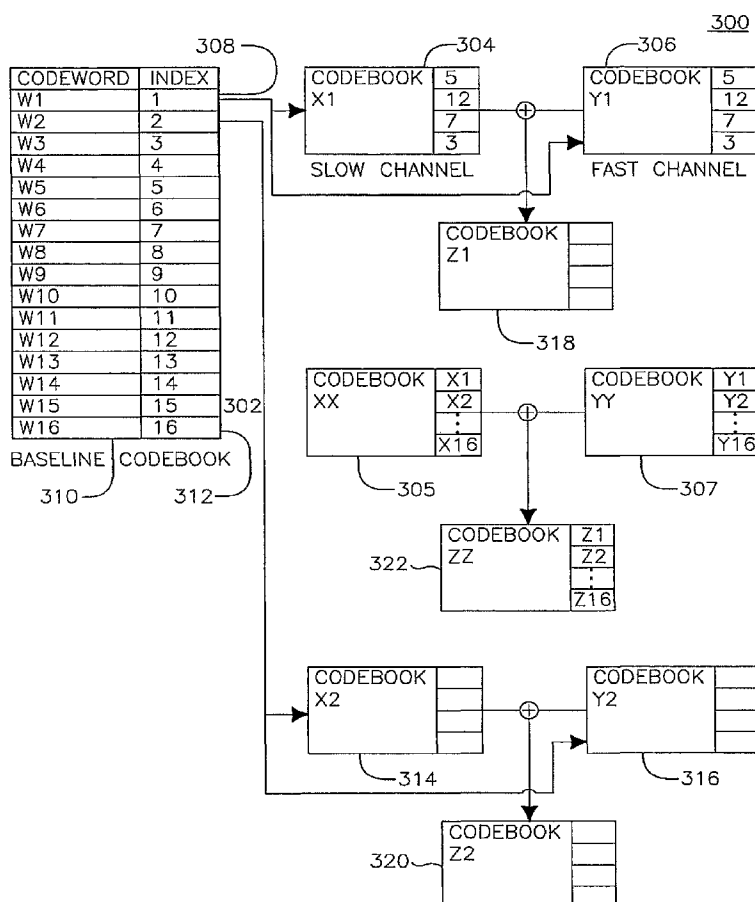
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[Continued on next page]

(54) Title: CODEBOOK PRECODING WITH VARIABLE FEEDBACK



(57) Abstract: A wireless communication system includes a wireless transmit/receive unit (WTRU). The WTRU is configured to generate at least one local codebook based on a baseline codebook, and select a codeword from the local codebook that is associated with feedback.

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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, WPI Data, INSPEC, COMPENDEX

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	SAMANTA R ET AL: "Codebook Adaptation for Quantized MIMO Beamforming Systems" SIGNALS, SYSTEMS AND COMPUTERS. CONFERENCE RECORD OF THE THIRTY-NINTH ASILOMAR CONFERENCE IN PACIFIC GROVE, CALIFORNIA., 28 October 2005 (2005-10-28), - 1 November 2005 (2005-11-01) pages 376-380, XP010900022 Piscataway, NJ, USA ISBN: 1-4244-0131-3 abstract page 377, right-hand column, last paragraph - page 379, left-hand column, line 13 figure 3 ----- -/--	1-39



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- * & * document member of the same patent family

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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.
A	HEATH R W ET AL: "What is the value of limited feedback for MIMO channels?" IEEE COMMUNICATIONS MAGAZINE, vol. 42, no. 10, October 2004 (2004-10), pages 54-59, XP011120042 Piscataway, NJ, USA ISSN: 0163-6804 page 54, left-hand column, line 1 - page 59, left-hand column, line 20 -----	1-39