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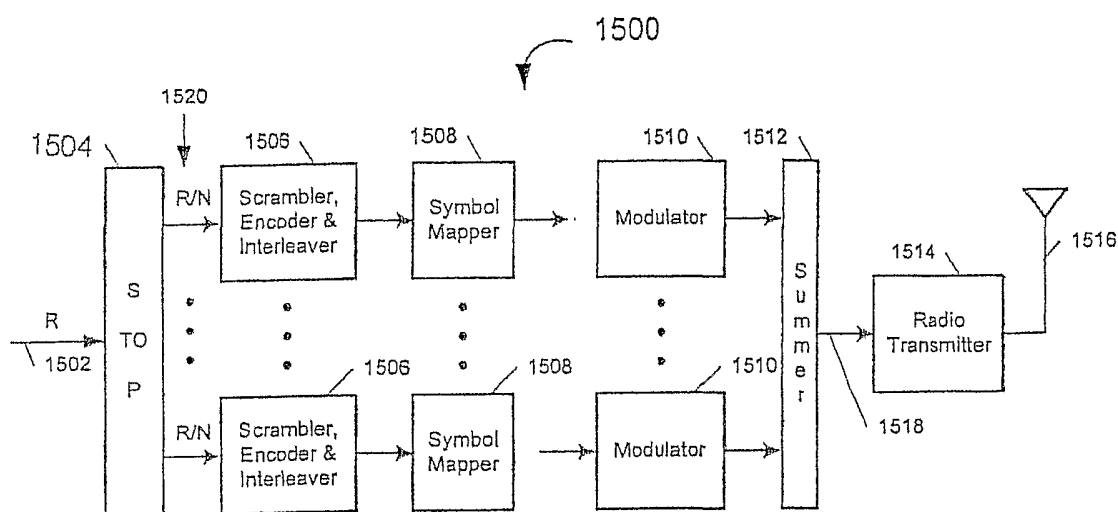
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(54) Title: SYSTEMS AND METHODS FOR EQUALIZATION OF RECEIVED SIGNALS IN A WIRELESS COMMUNICATION NETWORK



(57) Abstract: A method of communicating over a wideband communication channel is provided. In one embodiment an equalizer comprises a hard decision block which feeds an forward-error-correction (FEC) block and a shift register, which uses past estimates during a first iteration. The output of the FEC block is fed back to the shift register during a subsequent iteration to fully remove any inter-chip-interference, or inter-symbol-interference. This Abstract is provided for the sole purpose of complying with the Abstract requirement rules that allows a reader to quickly ascertain the subject matter of the disclosure contained herein This Abstract is submitted with the explicit that understanding that it will not be used to interpret or to limit the scope or the meaning of the claims.

INTERNATIONAL SEARCH REPORT

International application No.

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A. CLASSIFICATION OF SUBJECT MATTER IPC: H04B 1/10 (2006.01) USPC: 375/232,350 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. : 375/232, 350, 229, 259, 341, 360; 370/351, 464; 714/795 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)		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 5,991,308 A (FUHRMANN et al.) 23 November 1999, col. 5, lines 31-36 and 45-48; fig. 34, 37; col. 82, line 30-col. 83, line 2; col. 92, lines 28-64.	1-15
Y	US 6,337,878 B1 (ENDRES et al.) 08 January 2002, see entire document.	1-15
Y	US 5,561,468 A (BRYAN et al.) 01 October 1996, fig. 5.	15
A,P	US 6,842,495 B1 (JAFFE et al.) 11 January 2005, see entire document.	1-15
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