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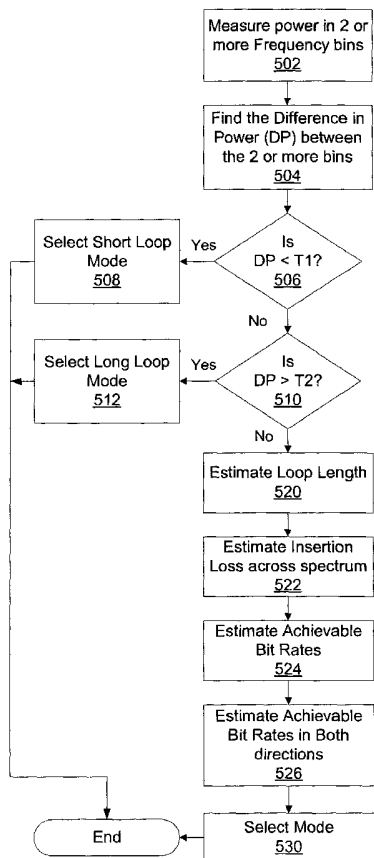
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(54) Title: AUTOMATIC MODE SELECTION IN ANNEX C



(57) Abstract: A system and method for selecting the operational mode in an ADSL Annex C environment during the handshake operation while increasing the accuracy of the determining the throughputs across the possible frequency spectrum while only having access to the power level of a small number of frequency bins during the handshake operation. In one embodiment of the present invention, the present invention receives signals in a multiple but small number of bins and estimates the loop length based upon the signal power in at least two of these bins. The present invention then identifies the noise profile over the relevant band of frequencies (or a subset thereof) to determine the bit rate. In one embodiment, the present invention selects the mode based upon a the bit rate in a single direction. In another embodiment, the present invention selects the mode based upon both the upstream and downstream bit rates.

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B. FIELDS SEARCHED

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Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
 EAST

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y, P	US 2003/0223482 A1 (OKSMAN et al) 04 December 2003, see entire document.	1-4, 5-14, 15-21, 22-31 and 32-34
Y, P	US 6,566,889 B2 (WARKE) 20 May 2003, see entire document.	1-4, 5-14, 15-21, 22-31 and 32-34
Y, P	US 2004/0028189 A1 (BAUER et al) 12 February 2004, see entire document.	5-14 and 22-31

Further documents are listed in the continuation of Box C.

See patent family annex.

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"A" document defining the general state of the art which is not considered to be of particular relevance	"X"	document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
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