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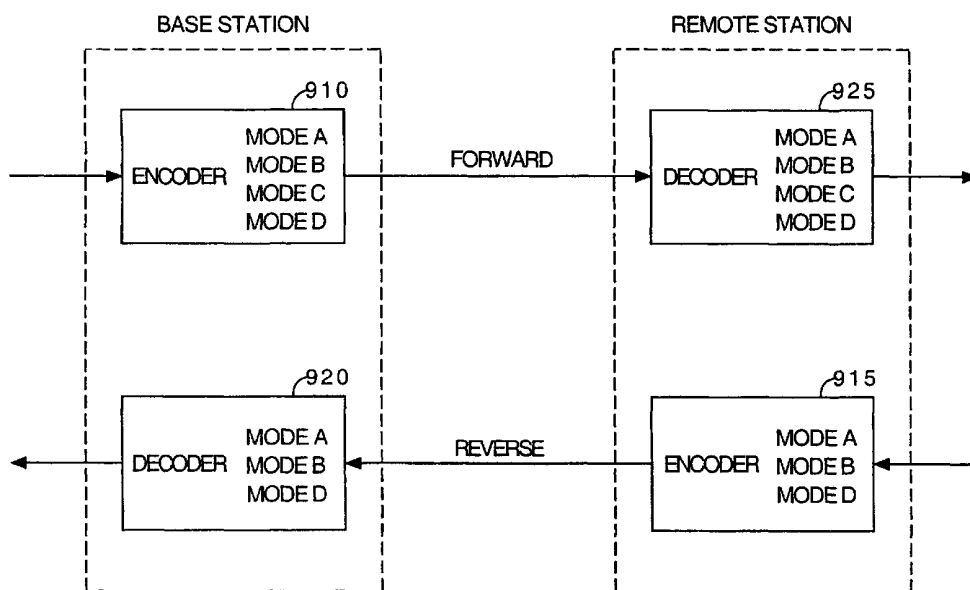
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(54) Title: METHOD AND APPARATUS FOR USING NON-SYMMETRIC SPEECH CODERS TO PRODUCE NON-SYMMETRIC LINKS IN A WIRELESS COMMUNICATION SYSTEM



(57) Abstract: A method and apparatus for balancing the forward link capacity of a wireless communication system with the reverse link capacity of the system is presented. Speech coder with selectable modes are implemented in both links so that a forward link speech coder will not be operating with a mode set that is identical to the mode set used by a reverse link speech coder. Since the reverse link has a higher user capacity than a forward link, the reverse link speech coder can operate with a higher average data rate. Hence, the mode set used by the reverse link speech coder can be implemented without low average data rate modes. Elimination of modes from the mode set reduces complexity of the speech coder.



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INTERNATIONAL SEARCH REPORT

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PCT/US 01/25586

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 H04Q7/30

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)

IPC 7 H04Q

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

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	TATEESH S ET AL: "LINK ADAPTIVE MULTI-RATE CODING VERIFICATION SYSTEM FOR CDMA MOBILE COMMUNICATIONS" COMMUNICATIONS: THE KEY TO GLOBAL PROSPERITY. GLOBECOM 1996. LONDON, NOV. 18 - 22, 1996, GLOBAL TELECOMMUNICATIONS CONFERENCE (GLOBECOM), NEW YORK, IEEE, US, vol. 3, 18 November 1996 (1996-11-18), pages 1969-1973, XP000748791 ISBN: 0-7803-3337-3 the whole document ---	1-7
Y	GB 2 332 820 A (NORTHERN TELECOM LTD.) 30 June 1999 (1999-06-30) abstract; figures 1-4 page 3, line 7 -page 4, line 16 --- -/--	1-7



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

° Special categories of cited documents:

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- *O* document referring to an oral disclosure, use, exhibition or other means
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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	BRUHN S ET AL: "Concepts and Solutions for Link Adaptation and Inband Signaling for the GSM AMR Speech Coding Standard" IEEE VEHICULAR TECHNOLOGY CONFERENCE, XX, XX, 16 May 1999 (1999-05-16), pages 2451-2455, XP002901443 the whole document ---	1-7
A	UVLIDEN A ET AL: "Adaptive Multi-Rate - A Speech Service Adapted to Cellular Radio Network Quality" CONFERENCE RECORD OF THE 31ST ASILOMAR CONFERENCE ON SIGNALS, SYSTEMS & COMPUTERS. PACIFIC GROVE, CA., NOV. 2 - 5, 1997, ASILOMAR CONFERENCE ON SIGNALS, SYSTEMS AND COMPUTERS, LOS ALAMITOS, CA.: IEEE, US, vol. 1, 1998, pages 343-347, XP002901442 ISBN: 0-8186-8317-1 the whole document ---	1-7
A	EP 0 715 431 A (AT&T CORP.) 5 June 1996 (1996-06-05) abstract; claims 1,11; figures 1-3 -----	1-7

INTERNATIONAL SEARCH REPORT

Information on patent family members

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