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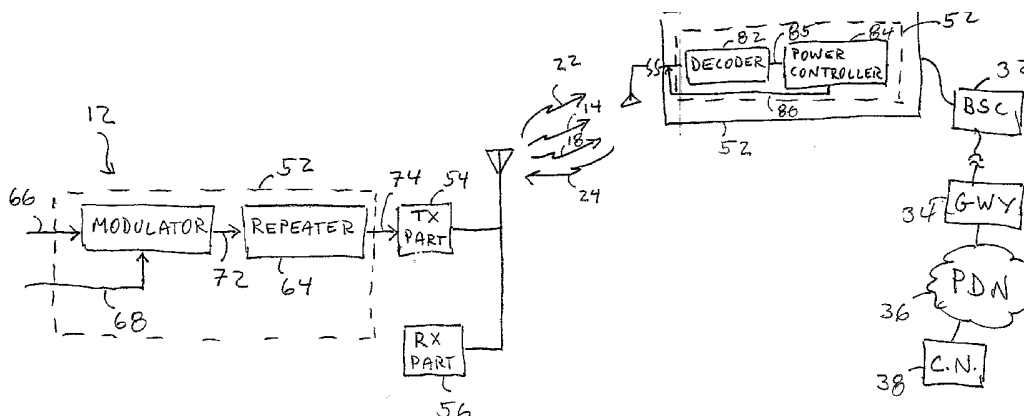
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(54) Title: POWER CONTROL IN FRAME FORMATTED DATA COMMUNICATION SYSTEM



(57) Abstract: Apparatus, and an associated method, for facilitating closed-loop power control in a radio communication system, such as upon reverse links defined in a CDMA2000, cellular communication system. Rate indications are modulated by a modulator (72) upon a control channel carrier signal to form a modulated data segment. Then, the modulated data segment is repeated (64) a selected number of times to form a concatenated sequence of modulated data segments. The modulated data segments are of sub-frame lengths and the concatenated sequences of a frame length. When the concatenated sequence is communicated and delivered to a communication station, the information contained in a sub-frame portion can be used to improve power control operations upon the reception of the sub frame rather than waiting for an entire frame of information to be delivered to the communication station.



For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/17785

A. CLASSIFICATION OF SUBJECT MATTER

IPC: **H04Q 7/00**(2006.01)

USPC: 455/522

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. : 455/522,68,91,103; 370/320,335,342; 375/135

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)

Please See Continuation Sheet

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2002/0021692 A (HUH et al) 21 February, 2002, (21.02.2002) see figs 2,3 5,6, paragraphs, 41, 42	1-20
A,E	US 6,873,647 B1 (TIEDEMANN, JR. et al.) 29 March, 2005 column 1, line 50- column 2, line 60.	1-20

☐ 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

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INTERNATIONAL SEARCH REPORT

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Continuation of B. FIELDS SEARCHED Item 3:

APS

search terms: modulator, repeater, data rate, indicate, indicator, segment, sub-frame, pilot, control, power