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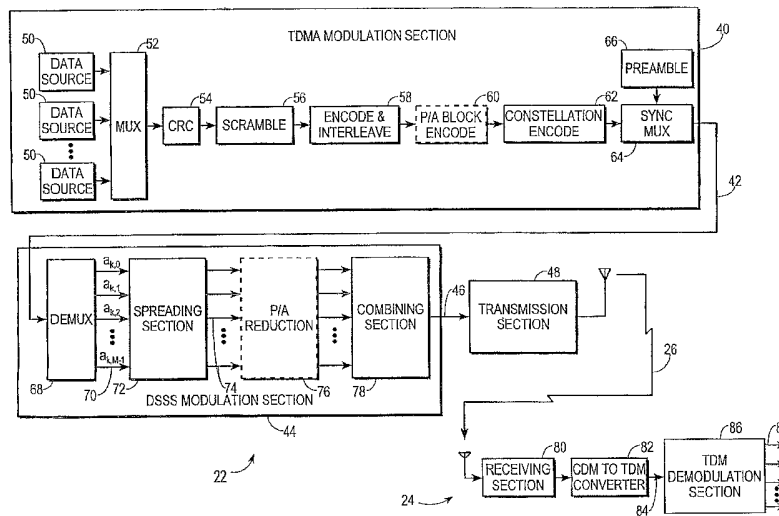
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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: ULTRA-WIDEBAND COMMUNICATION SYSTEMS AND METHODS



(57) Abstract: System and method of ultra-wideband communication are provided. In one embodiment, an ultra-wideband communication system (22) divides a stream of data conveying symbols into a plurality of unspread substreams (70). A common spreading code (38) is generated at the ultra-wideband transmitter, and each of the unspread substreams are spread using the common spread code to form a plurality of spread substreams (74). The spread substreams (74) are combined to form a composite signal (40) that is transmitted.

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US05/34649

A. CLASSIFICATION OF SUBJECT MATTER
IPC: H04B 7/216(2006.01)

USPC: 370/347;375/146
 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. : 370/347;375/146

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.
A	US 2003/0227980 A1 (Batra et al) 11 December 2003 (11.12.2003)	1-22
A	US 2002/0190786 A1 (Yoon et al) 19 December 2002 (19.12.2002)	1-22
A	US 2004/0008617 A1 (Dabak et al) 15 January 2004 (15.01.2004)	1-22
A	US 2003/0147655 A1 (Shattil) 07 August 2003 (07.08.2003)	1-22
A	US 6,215,777 B1 (Chen et al) 10 April 2001 (10.04.2001)	1-22

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	"T"	later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
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"O"	document referring to an oral disclosure, use, exhibition or other means		
"P"	document published prior to the international filing date but later than the priority date claimed	"&"	document member of the same patent family

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