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ning of each regular issue of the PCT Gazette.*

(54) Title: SYNCHRONIZATION, CHANNEL ESTIMATION AND PILOT TONE TRACKING SYSTEM

(57) Abstract: The invention provides for a method and system for properly tracking, synchronizing and demodulating received packets at a receiver in order to decode data and other informational symbols transmitted by a transmitter. The invention further provides for a method and system for correcting for distortion, phase shift, and frequency offset at a receiver due to variations in the frequencies transmitted by a transmitter. The system and method disclosed herein and employed for acquisition and initial synchronization is effectively immune to channel impairments, such as multi-path.



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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : H04L 27/22, 27/02

US CL : 375/358, 354, 355, 340, 346, 279, 303, 329; 370/278, 282, 295, 304

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)

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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)
USPAT

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X --- Y	US 6,047,034 (TSURUOKA) 04 April 2000 (04.04.2000), column 1, lines 38-64.	1, 2, 18, 19 ----- 15
X	US 6,134,280 (MATUI) 17 October 2000 (17.10.2000), abstract	1, 18
X	US 5,991,289 (HUANG et al.) 23 November 1999 (23.11.1999), column 5, lines 3-10.	1, 18
X	US 4,984,249 (LONG et al.) 08 January 1991 (08.01.1991), column 3, line 65 to column 4, line 33.	1, 18
X, E --- Y, E	US 6,359,938 B1 (KEEVILL et al.) 19 March 2002 (19.03.2002), entire document.	5, 6 ----- 15
X, E --- Y, E	US 6,351,500 B2 (KUMAR) 26 February 2002 (26.02.2002), entire document.	5, 6 ----- 15

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☐ See patent family annex.

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"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family
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