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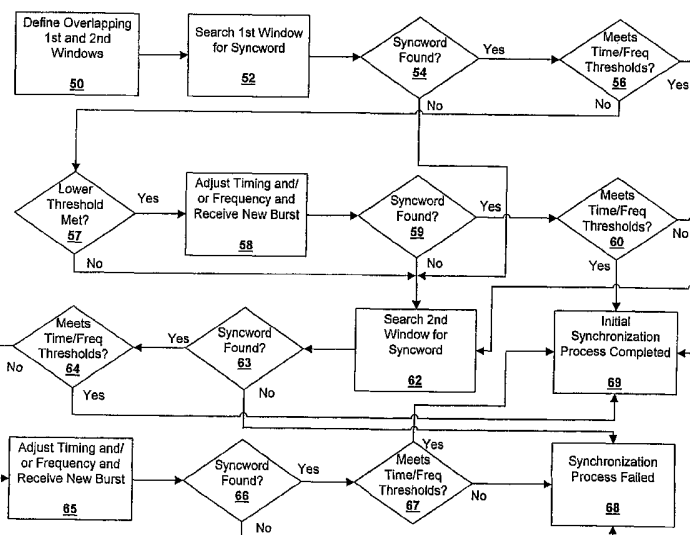
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[Continued on next page]

(54) Title: METHOD AND SYSTEM FOR DETECTION OF SYNCHRONIZATION IN COMMUNICATION SYSTEMS



(57) Abstract: Methods and systems for a transceiver to acquire synchronization to a channel in a TDMA communications system by identifying a known synchronization word in a burst received at the transceiver over the channel are provided. Pursuant to these methods and systems a first uncertainty window and a second uncertainty window are defined within a burst that is received over the channel. The transceiver may search in these uncertainty windows for the known synchronization word, where the first uncertainty window is smaller than the second uncertainty window. The first uncertainty window is first searched for the known synchronization word. It may then be determined if the known synchronization word has been located within the first uncertainty window. If it has not been, the second uncertainty window is then searched for the known synchronization word.



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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.

INTERNATIONAL SEARCH REPORT

International Application No

PC 01/31455

A. CLASSIFICATION OF SUBJECT MATTER
 IPC 7 H04B7/26 H04L7/08

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 H04B H04L

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, WPI Data, PAJ, INSPEC

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 99 56422 A (SIEMENS AG ;WEDI CHRISTOPH (DE)) 4 November 1999 (1999-11-04) page 3, line 30 -page 4, line 3 page 4, line 29 -page 5, line 5 page 9, line 24 -page 10, line 32 figure 3 claims	1,2, 25-27
X	--- US 6 014 376 A (BROWN DAVID L ET AL) 11 January 2000 (2000-01-11) column 6, line 28-41 figure 2	1,2, 25-27
A	--- US 5 274 676 A (GOSC PAUL M ET AL) 28 December 1993 (1993-12-28) column 4, line 6 -column 5, line 50 claims -----	1,25

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

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- "P" document published prior to the international filing date but later than the priority date claimed

- "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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INTERNATIONAL SEARCH REPORT

Information on patent family members

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