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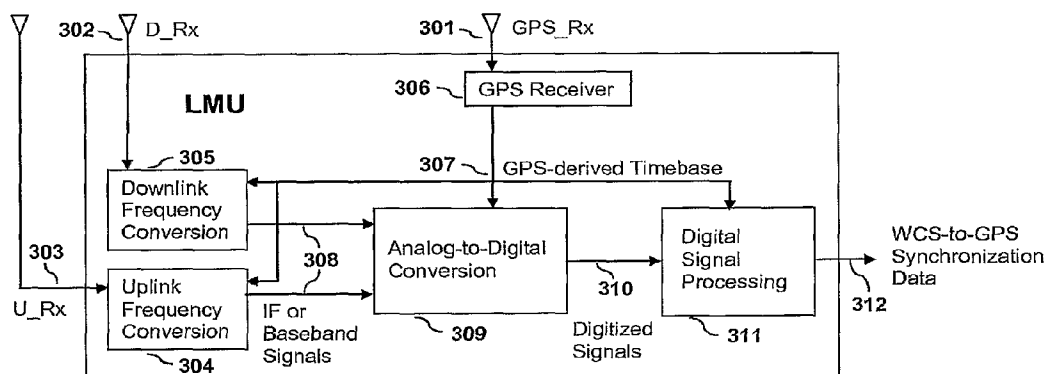
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(54) Title: GPS SYNCHRONIZATION FOR WIRELESS COMMUNICATIONS STATIONS



(57) Abstract: A method and system are specified to determine, provide, and exploit the precise time base relations between the distinct signal timings of the Global Positioning System (GPS) and a wireless communications system (WCS) for which the internal WCS downlink time base standards are not inherently synchronized to GPS timing. These downlink signal synchronization facilities are particularly beneficial for a wireless location system (WLS) and related methods and subsystems that provide mobile-station location determination through the exploitation of the time base synchronization information, e.g., to assist a GPS-equipped mobile station in determining its GPS-derived measurements with enhanced efficiency and accuracy.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US 06/62623

A. CLASSIFICATION OF SUBJECT MATTER

IPC(8) - H04B 7/00 (2007.01)

USPC - 455/502

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)

USPC: 455/502

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

USPC: 455/502

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

PubWEST(USPT,PGPB,EPAB,JPAB); DialogPRO; WIPO, EPO, CITESEER, Google patents, Google scholar

Search Terms Used: GPS synchronization wireless cellular timing time value downlink signal base transceiver

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2004/0198394 A1 (SYRJARINNE et al.) 07 October 2004 (07.10.2004) entire document Fig 1-2, abstract, para [0010]-[0022], para [0030]-[0032], para [0036].	1-27
X	US 2005/0148346 A1 (MALONEY et al.) 07 July 2005 (07.07.2005) entire document especially abstract, para [0026]-[0027], para [0084].	28-32
A	US 2002/0123352 A1 (VAYANOS et al.) 05 September 2002 (05.09.2002) entire document	1-32

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