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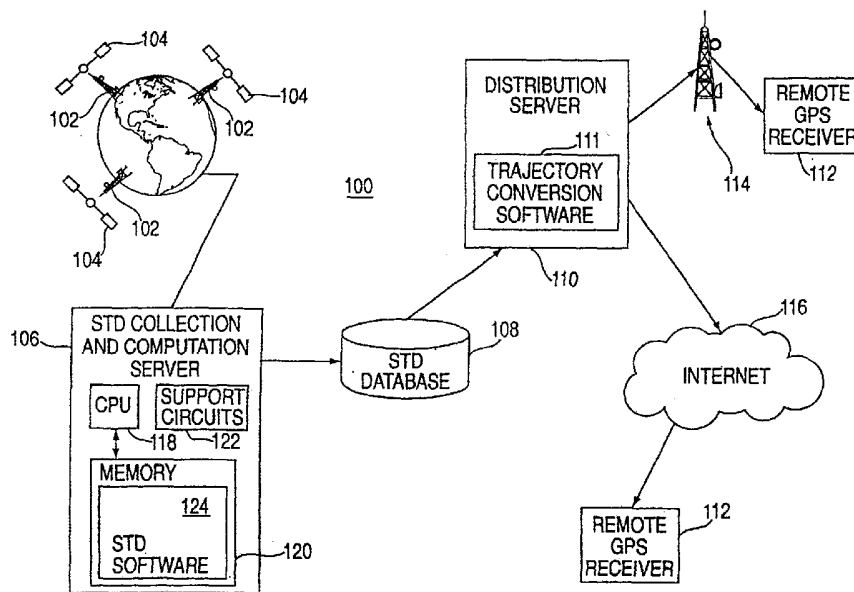
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[Continued on next page]

(54) Title: METHOD AND APPARATUS FOR GENERATING AND DISTRIBUTING SATELLITE TRACKING INFORMATION IN A COMPACT FORMAT



(57) Abstract: A method and apparatus (100) for creating and distributing satellite tracking data in a compact format to a remote receiver (112). At least a portion of the satellite tracking data is extracted from memory (120) and is formatted into a compact form (111). The compact formatted data (111) is transmitted to the remote receiver (112) via a distribution network (114, 116). Once this data is received at the remote receiver (112) it is reformatted into a format prescribed by the remote receiver (112).



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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.
PCT/US02/23282

A. CLASSIFICATION OF SUBJECT MATTER
IPC(7) : G01S 5/02; H04B 7/185
US CL : 342/357.09, 357.02, 357.06, 357.1, 357.12, 358
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. : 342/357.09, 357.02, 357.06, 357.1, 357.12, 358; 701/207, 213, 214, 215; 455/456, 457, 561, 575

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 6,118,977 A (VANNUCCI) 12 September 2000 (12.09.2000), column 2, line 65 - column 3, line 5; column 4, lines 35-40, line 61 - column 5, line 4; column 6, line 66 - column 7, line 5.	1-5, 9-15, 27, 30-32, 34
A	US 5,812,087 A (KRASNER) 22 September 1998 (22.09.1998), entire document.	1-34
A	US 6,064,336 A (KRASNER) 16 May 2000 (16.05.2000), entire document.	1-34
A	US 6,067,045 A (CASTELLOE et al.) 23 May 2000 (23.05.2000), entire document.	1-34
A	US 6,211,819 B1 (KING et al.) 03 April 2001 (03.04.2001), entire document.	1-34
A	US 6,215,441 B1 (MOEGLEIN et al.) 10 April 2001 (10.04.2001), entire document.	1-34
A, P	US 6,313,787 B1 (KING et al.) 06 November 2001 (06.11.2001), entire document.	1-34
A, E	US 6,437,735 B1 (MCMAHAN) 20 August 2002 (20.08.2002), entire document.	1-34

Further documents are listed in the continuation of Box C. See patent family annex.

* Special categories of cited documents:	"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
"A" document defining the general state of the art which is not considered to be of particular relevance	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"E" earlier application or patent published on or after the international filing date	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"&" document member of the same patent family
"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	

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/US02/23282

Box I Observations where certain claims were found unsearchable (Continuation of Item 1 of first sheet)

This international report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. Claim Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

2. Claim Nos.:
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:

3. Claim Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of Item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
 2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
 3. As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:

 4. No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
- Remark on Protest**
- The additional search fees were accompanied by the applicant's protest.
- No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

PCT/US02/23282

Continuation of B. FIELDS SEARCHED Item 3:

BRS

search terms: ephemerides or ephemeris, satellite tracking data, ICD-GPS-200, transmit\$5 or broadcast, assisted GPS, GPS almanac,