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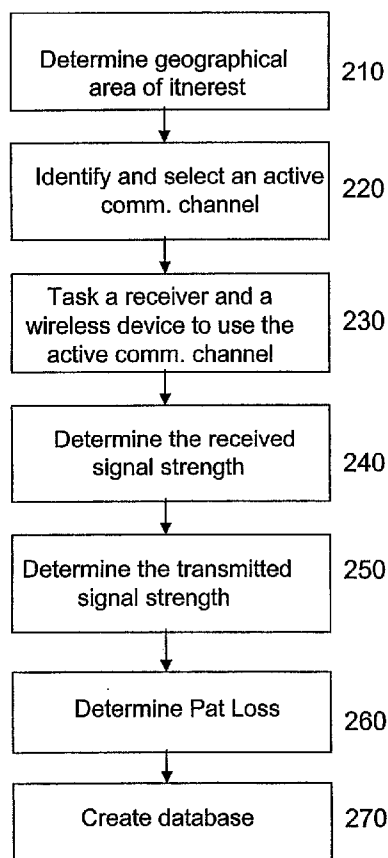
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[Continued on next page]

(54) Title: METHOD AND APPARATUS FOR DETERMINING PATH LOSS BY ACTIVE SIGNAL DETECTION



(57) Abstract: A method for determining a path loss value of a signal transmitted from a wireless device to a receiver in a wireless communication system having at least one cell having at least one sector operating on at least one frequency channel. The method includes: (i) identifying a geographic area where the path loss value is to be determined; (ii) identifying a first cell, a first sector, and a first frequency channel associated with the geographic area wherein said wireless device is actively communicating With said receiver using said first frequency channel; at the receiver (iii) receiving the signal transmitted from the wireless device on said first frequency channel; (iv) receiving an indication of transmission signal strength; (v) measuring the received signal strength; and (vi) determining the path loss value of said first frequency channel as a function of the indication of transmission signal strength and the received signal strength.

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## INTERNATIONAL SEARCH REPORT

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## A. CLASSIFICATION OF SUBJECT MATTER

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USPC - 455/62

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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USPC - 455/423, 671, 450, 63, 437, 443, 453, 456.1, 452, 448, 434, 426, 62, 400, 34.1

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)

MicroPatent (USG USA EPA EPB WO JP DEG DEA DET DEU GBA FRA): (wireless\*3 with locat\*5 with sens\*5) with GPS\*1, IP.com: "inter-symbol interference" and "cross-rail interference" and "vehicle tracking" and "vehicle security", DialogPro: interference

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X ---	US 2002/0058503 A1 (GUTOWSKI) 16 May 2002 (16.05.2002) entire document	11-13 and 16
Y		7, 14-15, 17-51
Y	US 2003/0129987 A1 (TANAY et al) 10 July 2003 (10.07.2003) entire document	1-10
Y	WO 2003/001742 A1 (ALTMAN) 03 January 2003 (03.01.2003) entire document	33-40
Y	US 6,526,279 B1 (DENT) 25 February 2003 (25.02.2003) entire document	2-3, 17-18, 22, 26-27, 32, 38-39 and 48
Y	US 6,138,024 A (EVANS et al) 24 October 2000 (24.10.2000) entire document	5-6
Y	US 6,845,240 B2 (CARLSON et al) 18 January 2005 (18.01.2005) entire document	15, 21, 23-32, 41-51
Y	US 2004/0137912 A1 (LIN) 15 July 2004 (15.07.2004) entire document	33-40
Y	US 5,862,124 A (HOTTINEN et al) 19 January 1999 (19.01.1999) entire document	14
Y	US 6,363,263 B1 (REUDINK et al) 26 March 2002 (26.03.2002) entire document	19-20, 28-29, 40-51
Y	US 6,049,717 A (DUFOUR et al) 11 April 2000 (11.04.2000) entire document	10

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 6,853,842 B1 (WILSON et al) 08 February 2005 (08.02.2005) entire document	1-10
Y	US 6,047,175 A (TROMPOWER) 04 April 2000 (04.04.2000) entire document	43
Y	US 5,497,503 A (RYDBERG et al) 05 March 1996 05.03.1996) entire document	41-51
A	EP 1 191 804 A2 (GUTOWSKI) 27 March 2002 (27.03.2002) entire document	1-51
A	WO 02/13439 A2 (TANAY) 14 February 2002 (14.02.2002) entire document	1-51
A	WO 1999027737 A1 (DESGAGNE et al) 03 June 1999 (3.06.1999) entire document	1-51