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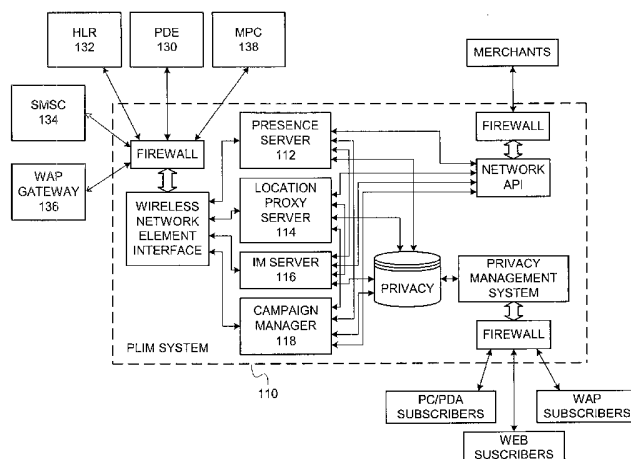
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(54) Title: USE OF PRESENCE AND LOCATION INFORMATION CONCERNING WIRELESS SUBSCRIBERS FOR INSTANT MESSAGING AND MOBILE COMMERCE



(57) Abstract: Presence determination (112), location determination (114), instant messaging (116), and mobile commerce (118) are integrated into a functionally seamless system, which may be implemented as an added component of a wireless provider's network. Alternatively, the integrated system enables instant messaging and mobile commerce as a centralized gateway attached to the networks of a large number of wireless providers. The gateway facilitates a business model that advances beyond today's practices, in which individual wireless carriers enter into bi-lateral agreements with specific Internet content providers. The functionally integrated gateway disclosed empowers Internet services that require realtime information about wireless subscribers in order to conduct m-commerce or offer advanced messaging services. Optimization of a wireless network is also facilitated by taking network performance measurements, without using a special drive test team, via devices that are regularly using the network during standard network operation.



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## INTERNATIONAL SEARCH REPORT

International application No.

PCT/US02/04533

**A. CLASSIFICATION OF SUBJECT MATTER**

IPC(7) : G06F 17/60  
 US CL : 455/456, 466

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. : 455/456, 466, 414, 433, 435; 340/988, 991

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)  
 EAST search terms: Internet, instant messaging, messages, commerce, mobile, wireless

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6,091,956 A (HOLLENBERG) 18 July 2000 (18.07.2000), Fig. 1, col. 4 lines 34-51, and col. 12 line 43 - col. 13 line 21.	1-7
X, P	WO 01/44998 A2 (JHANJI et al) 21 June 2001 (21.06.2001), page 1 line 9 - page 7 line 12, page 9 line 23 - page 12 line 17, page 14 line 9 - page 17 line 4, and Figs. 1-4, 7 &	1-7
A	US 5,561,704 A (SALIMANDO) 01 October 1996 (01.10.1996), col. 1 line 11 - col. 4 line 24.	1-7
A	US 5,938,721 A (DUSSELL et al) 17 August 1999 (17.09.1999), col. 8 line 11 - col. 9 line 49.	1-7
A	US 6,047,327 A (TSO et al) 04 April 2000 (04.04.2000), Fig. 5, col. 1 line 34 - col. 2 line 6, and col. 4 line 4 - col. 6 line 4.	1-7
A	US 6,157,814 A (HYMEL et al) 05 December 2000 (05.12.2000), col. 1 lines 30-37.	1-7
A, P	US 6,249,578 B1 (GILLES et al) 19 June 2001 (19.06.2001), col. 3 lines 36-61, col. 5 lines 3-15, col. 6 lines 31-50, and Abstract.	1-7
A, P	WO 01/27830 A1 (D'AVELLO et al) 19 April 2001 (19.04.2001), page 2 lines 4-18, page 5 line 4 - page 6 line 11, and page 10 lines 3-16.	1-7



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