



US006819919B1

(12) **United States Patent**
Tanaka

(10) **Patent No.:** **US 6,819,919 B1**
(45) **Date of Patent:** **Nov. 16, 2004**

(54) **METHOD FOR PROVIDING MATCHING AND INTRODUCTION SERVICES TO PROXIMATE MOBILE USERS AND SERVICE PROVIDERS**

(75) Inventor: **Hirohisa A. Tanaka**, Menlo Park, CA (US)

(73) Assignee: **Telcontar**, San Jose, CA (US)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 425 days.

(21) Appl. No.: **09/691,322**

(22) Filed: **Oct. 18, 2000**

Related U.S. Application Data

(60) Provisional application No. 60/162,333, filed on Oct. 29, 1999.

(51) **Int. Cl.**⁷ **H04Q 7/20**; H04Q 7/38

(52) **U.S. Cl.** **455/414.1**; 455/414.2; 455/456.1; 455/456.3; 455/412.1; 455/456.5; 455/422.1; 342/357.7; 342/357.6; 342/357.8

(58) **Field of Search** 455/456.1, 456.2, 455/456.3, 456.6, 457, 404.1, 404.2, 414.1, 412.1, 403, 427, 435.1, 422.1, 550.1, 552.1, 426.1, 426.2, 414.2, 414.3, 414.4, 433, 517; 342/357.12, 357.06, 357.08, 357.1

(56) **References Cited**

U.S. PATENT DOCUMENTS

5,043,736	A	8/1991	Darnell et al.
5,295,180	A	3/1994	Vendetti et al.
5,568,153	A	10/1996	Béliveau
5,758,288	A	5/1998	Dunn et al.
5,761,648	A	6/1998	Golden et al.
5,774,802	A	6/1998	Tell et al.
5,852,775	A	12/1998	Hidary

(List continued on next page.)

FOREIGN PATENT DOCUMENTS

EP 0 708 571 A2 4/1996

WO	WO 97/13387	A1	4/1997
WO	WO 97/41654	A1	11/1997
WO	WO 98/36585	A2	8/1998
WO	WO 99/05597	A1	2/1999
WO	WO 99/33199	A1	7/1999
WO	WO 99/56144	A1	11/1999
WO	WO 99/66757	A1	12/1999
WO	WO 00/04730	A1	1/2000
WO	WO 00/22860	A1	4/2000
WO	WO 00/35216	A1	6/2000
WO	WO 00/40038	A2	7/2000
WO	WO 00/51333	A1	8/2000
WO	WO 00/62564	A1	10/2000
WO	WO 01/24551	A1	4/2001

OTHER PUBLICATIONS

www.signalsoftcorp.com (printed web pages).
www.sigma-1.com (printed web pages).
www.iprox.com (printed web pages).
Hadfield, Peter. "You can run, but you can't hide," Aug. 21, 1999, *New Scientist*, 1 page.

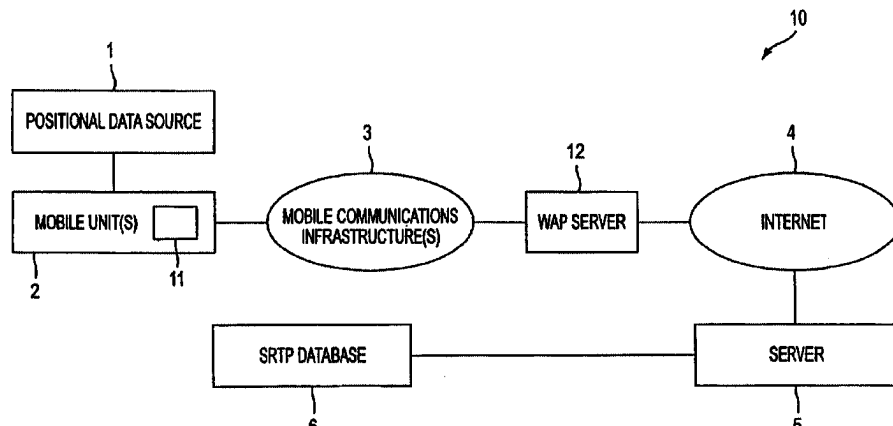
(List continued on next page.)

Primary Examiner—William Trost
Assistant Examiner—Keith Ferguson
(74) *Attorney, Agent, or Firm*—Fenwick & West LLP

(57) **ABSTRACT**

A system enabling mobile wireless users to obtain information on other proximate users both fixed and wireless. Said information is gathered from a central database that stores user profiles and real-time locations of system users. Mobile users can request information on nearby users by submitting a request from a mobile telephone or similar communications endpoint to the central database. The request is accompanied by the user's location, obtained from GPS (Global Positioning System) or other technology, or from user input. The server searches the profile database for nearby users based on requester's location, locations of other users of the system and optional parameters specified in the request. Search results are returned to the requester. The system facilitates communication between requester and owner(s) of profiles returned by system.

31 Claims, 4 Drawing Sheets



U.S. PATENT DOCUMENTS

5,873,040	A	2/1999	Dunn et al.	6,286,005	B1	9/2001	Cannon	
5,884,272	A	3/1999	Walker et al.	6,292,672	B1	9/2001	Chavez, Jr.	
5,918,180	A	6/1999	Dimino	6,292,743	B1 *	9/2001	Pu et al.	455/456.1
5,953,400	A	9/1999	Rosenthal et al.	6,332,127	B1	12/2001	Bandera et al.	
5,963,864	A	10/1999	O'Neil et al.	6,360,102	B1	3/2002	Havinis et al.	
5,966,696	A	10/1999	Giraud	6,377,793	B1	4/2002	Jenkins	
5,974,393	A	10/1999	McCullough et al.	6,381,465	B1	4/2002	Chern et al.	
5,982,281	A	11/1999	Layson, Jr.	6,397,057	B1	5/2002	Malackowski et al.	
5,995,015	A	11/1999	DeTemple et al.	6,400,956	B1	6/2002	Richton	
6,018,699	A	1/2000	Baron, Sr. et al.	6,411,891	B1	6/2002	Jones	
6,044,261	A	3/2000	Kazmi	6,442,391	B1	8/2002	Johansson et al.	
6,047,327	A	4/2000	Tso et al.	6,484,148	B1	11/2002	Boyd	
6,052,122	A	4/2000	Sutcliffe et al.	6,505,046	B1	1/2003	Baker	
6,055,434	A	4/2000	Seraj	6,549,768	B1 *	4/2003	Fraccaroli	455/456.1
6,060,995	A	5/2000	Wicks et al.	2001/0027111	A1	10/2001	Motegi et al.	
6,061,561	A	5/2000	Alanara et al.					
6,061,681	A	5/2000	Collins					
6,067,045	A	5/2000	Castelloe et al.					
6,067,356	A	5/2000	Lautenschlager et al.					
6,073,138	A	6/2000	de l'Etraz et al.					
6,091,956	A	7/2000	Hollenberg					
6,119,014	A	9/2000	Alperovich et al.					
6,157,841	A	12/2000	Bolduc et al.					
6,166,685	A	12/2000	Soliman					
6,181,927	B1	1/2001	Welling, Jr. et al.					
6,208,866	B1	3/2001	Rouhollahzadeh et al.					
6,233,506	B1 *	5/2001	Obradovich et al.					455/404.1

OTHER PUBLICATIONS

Krishna et al., "Static and Adaptive Location Management in Mobile Wireless Networks," Computer Communications, Elsevier Science Publishers BV, vol. 19, No. 4, Apr. 1, 1996, pp. 321-334.

Nelson, "User Interaction with Machines on the Move: Location Aware Computing," Computers in Industry, Elsevier Science Publishers BV, vol. 29, No. 1, Jul. 1, 1996, pp. 63-70.

* cited by examiner

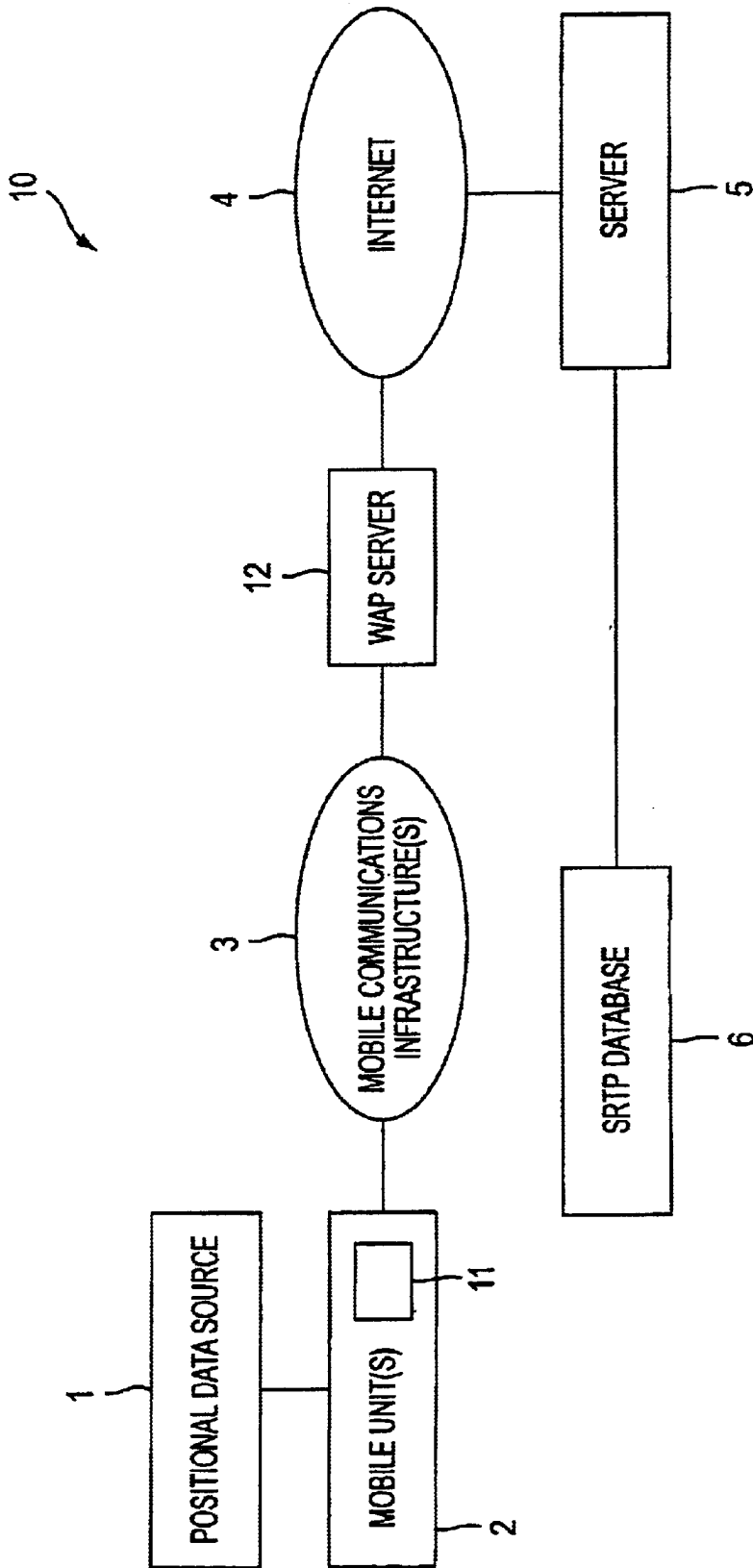


FIG. 1

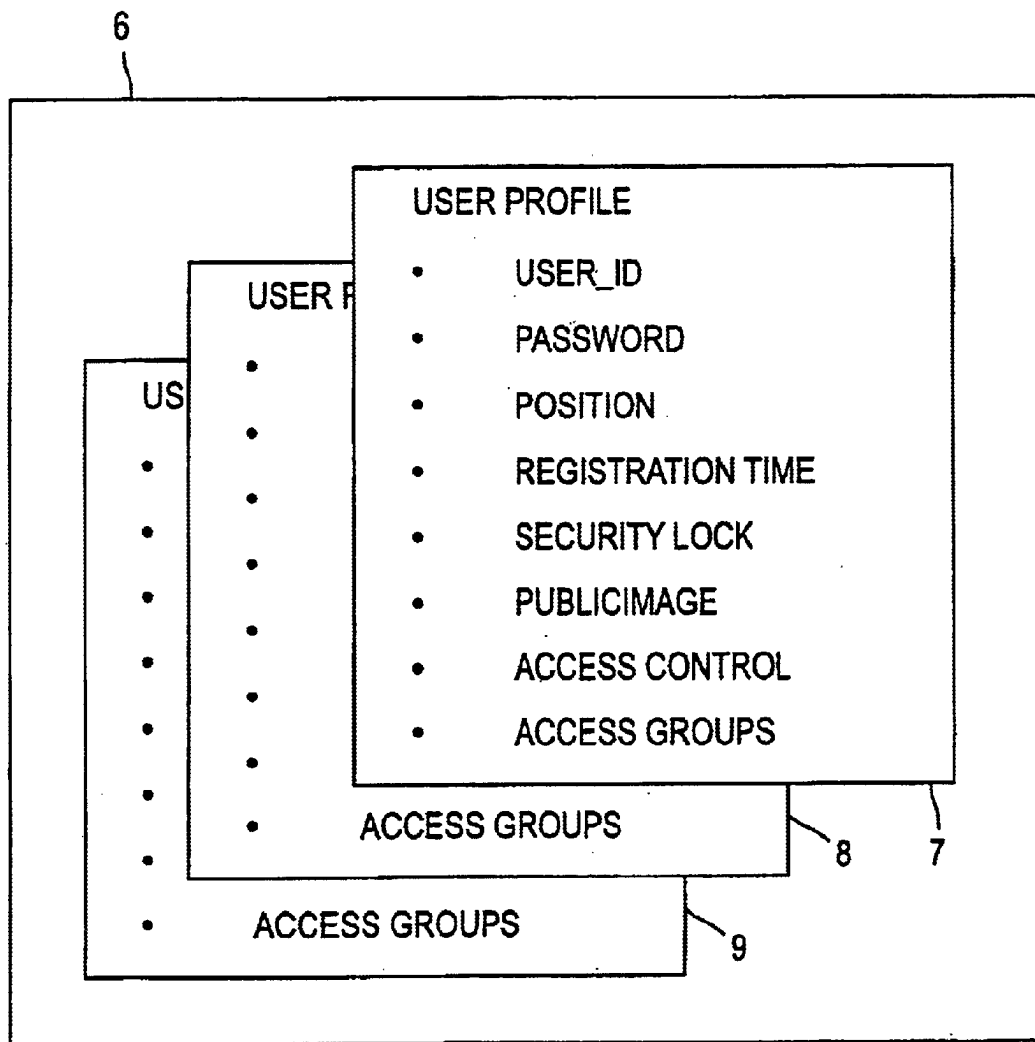


FIG. 2

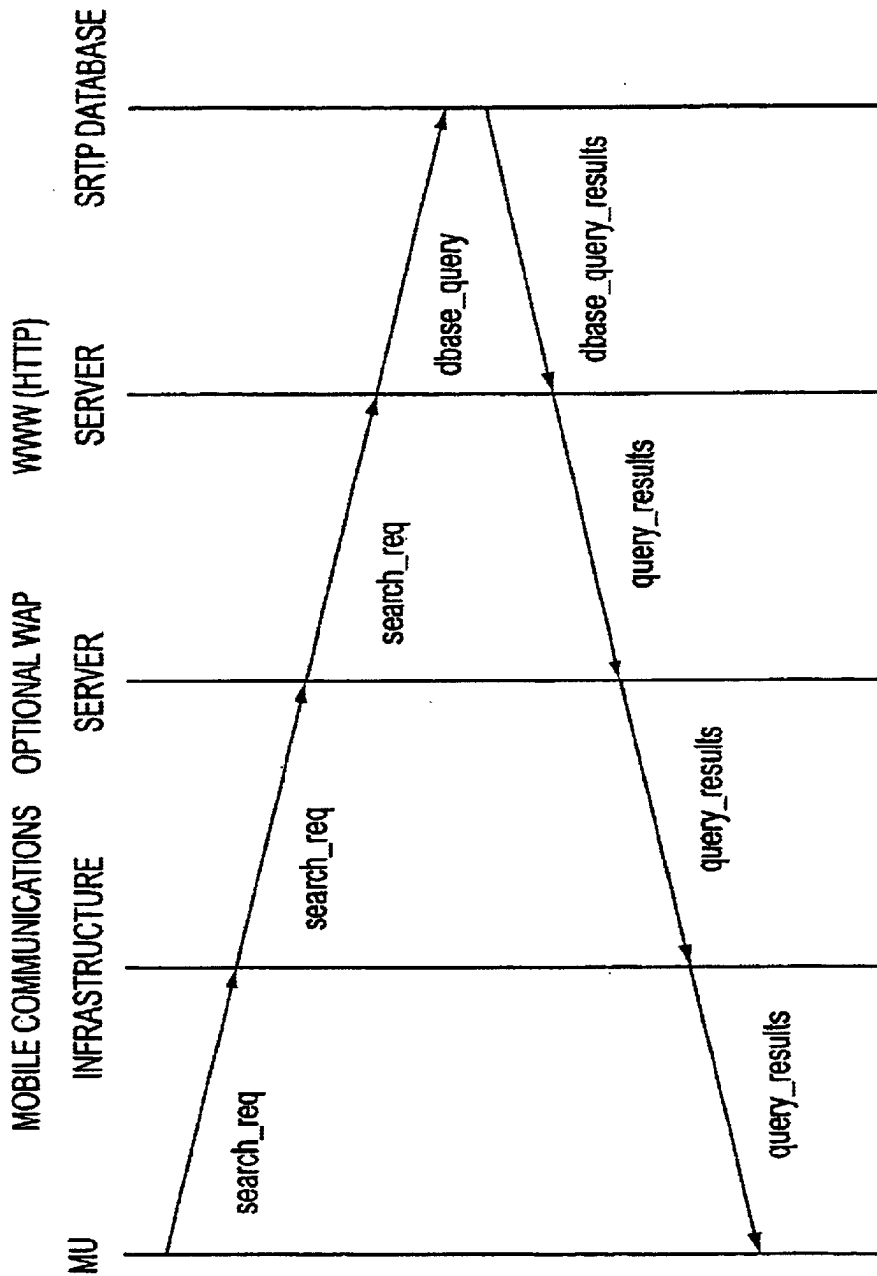


FIG. 3

Explore Litigation Insights

Docket Alarm provides insights to develop a more informed litigation strategy and the peace of mind of knowing you're on top of things.

Real-Time Litigation Alerts



Keep your litigation team up-to-date with **real-time alerts** and advanced team management tools built for the enterprise, all while greatly reducing PACER spend.

Our comprehensive service means we can handle Federal, State, and Administrative courts across the country.

Advanced Docket Research



With over 230 million records, Docket Alarm's cloud-native docket research platform finds what other services can't. Coverage includes Federal, State, plus PTAB, TTAB, ITC and NLRB decisions, all in one place.

Identify arguments that have been successful in the past with full text, pinpoint searching. Link to case law cited within any court document via Fastcase.

Analytics At Your Fingertips



Learn what happened the last time a particular judge, opposing counsel or company faced cases similar to yours.

Advanced out-of-the-box PTAB and TTAB analytics are always at your fingertips.

API

Docket Alarm offers a powerful API (application programming interface) to developers that want to integrate case filings into their apps.

LAW FIRMS

Build custom dashboards for your attorneys and clients with live data direct from the court.

Automate many repetitive legal tasks like conflict checks, document management, and marketing.

FINANCIAL INSTITUTIONS

Litigation and bankruptcy checks for companies and debtors.

E-DISCOVERY AND LEGAL VENDORS

Sync your system to PACER to automate legal marketing.