



US007149511B1

(12) **United States Patent**
Bachner, III et al.

(10) **Patent No.:** **US 7,149,511 B1**
(45) **Date of Patent:** **Dec. 12, 2006**

(54) **WIRELESS INTELLIGENT PERSONAL SERVER**

(75) Inventors: **Edward F. Bachner, III**, Lockport, IL (US); **John Major**, Rancho Santa Fe, CA (US); **Xin Du**, Bartlett, IL (US)

(73) Assignee: **Rosetta-Wireless Corporation**, Oakbrook Terrace, IL (US)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 488 days.

(21) Appl. No.: **09/652,734**

(22) Filed: **Aug. 31, 2000**

(51) **Int. Cl.**
H04Q 7/20 (2006.01)
H04Q 7/32 (2006.01)

(52) **U.S. Cl.** **455/419**; 455/412.1; 455/412.2; 455/418; 455/422.1; 455/550.1; 455/557; 455/556.1; 709/202; 709/203; 709/216; 709/219

(58) **Field of Classification Search** 455/550, 455/556, 557, 566, 572, 573, 418, 419, 420, 455/403, 422, 412, 414, 517, 554, 555, 558, 455/575, 90, 412.1, 412.2, 426.1, 426.2, 455/500, 502, 423, 424, 425, 67.11, 552.1, 455/562.1, 556.1, 561, 466, 414.4; 345/901, 345/903, 905, 1.1, 2.3, 3.1; 709/202, 203, 709/216, 219

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

4,916,441 A *	4/1990	Gombrich	.....	455/575
5,297,192 A *	3/1994	Gerszberg	.....	455/419
5,438,611 A	8/1995	Campana, Jr. et al.		
5,479,472 A	12/1995	Campana, Jr. et al.		
5,625,670 A	4/1997	Campana, Jr. et al.		
5,754,625 A *	5/1998	Shimura	.....	455/573
5,802,312 A	9/1998	Lazaridis et al.		
5,819,172 A	10/1998	Campana, Jr. et al.		

5,953,507 A	9/1999	Cheung et al.		
5,982,520 A	11/1999	Weiser et al.		
6,003,068 A *	12/1999	Sopko	.....	709/205
6,058,106 A	5/2000	Cudak et al.		
6,067,451 A	5/2000	Campana, Jr. et al.		
6,108,727 A *	8/2000	Boals et al.	.....	710/68
6,112,206 A *	8/2000	Morris et al.	.....	707/10
6,128,661 A	10/2000	Flanagin et al.		

(Continued)

FOREIGN PATENT DOCUMENTS

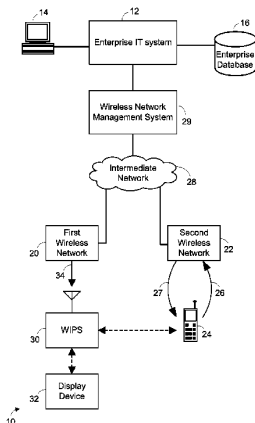
EP 1 016 986 A2 7/2000

Primary Examiner—Keith Ferguson
(74) *Attorney, Agent, or Firm*—Momkus McCluskey; Jefferson Perkins

(57) **ABSTRACT**

A wireless intelligent personal server includes a radio frequency (RF) receiver, a memory for storing electronic files, a set of embedded machine language instructions, a central processing unit (CPU), a first interface for a display device, such as a personal digital assistant (PDA), and a second interface for a wireless telephone. The RF receiver receives downstream data transmitted over a downstream wireless communications channel. The CPU executes the machine language instructions to process the downstream data and, thereby, either update an existing target electronic file stored in the memory, so that the target electronic file reflects changes made to a source electronic file, or create a new electronic file in the memory. A display device may be brought into communication with the wireless intelligent personal server, via the first interface, to access the electronic files stored in the memory. The wireless intelligent personal server may also transmit an upstream signal over an upstream wireless communication channel, such as by using a wireless telephone, in communication via the second interface. The upstream signal may acknowledge receipt of the downstream data, or it may include upstream data reflecting changes to the electronic files stored in the memory made by the display device.

80 Claims, 3 Drawing Sheets



US 7,149,511 B1

Page 2

U.S. PATENT DOCUMENTS

6,198,920 B1	3/2001	Doviak et al.	6,438,585 B1	8/2002	Mousseau et al.
6,198,941 B1	3/2001	Aho et al.	6,446,118 B1	9/2002	Gottlieb
6,272,545 B1	8/2001	Flanagin et al.	6,463,463 B1	10/2002	Godfrey et al.
6,279,153 B1	8/2001	Bi et al.	6,463,464 B1	10/2002	Lazaridis et al.
6,311,058 B1 *	10/2001	Wecker et al. 455/418	6,512,919 B1 *	1/2003	Ogasawara 455/422
6,317,592 B1	11/2001	Campana, Jr. et al.	6,516,202 B1	2/2003	Hawkins et al.
6,317,793 B1	11/2001	Toyosawa	6,546,425 B1	4/2003	Hanson et al.
6,389,457 B1	5/2002	Lazaridis et al.	6,680,923 B1	1/2004	Leon
6,401,113 B1	6/2002	Lazaridis et al.	6,701,378 B1	3/2004	Gilhuly et al.
6,418,324 B1	7/2002	Doviak	6,721,288 B1	4/2004	King et al.
6,430,601 B1	8/2002	Eldridge et al.	2001/0029178 A1 *	10/2001	Criss et al. 455/419
6,434,403 B1 *	8/2002	Ausems et al. 455/556	2004/0204041 A1 *	10/2004	Fillebrown et al. 455/556.1

* cited by examiner

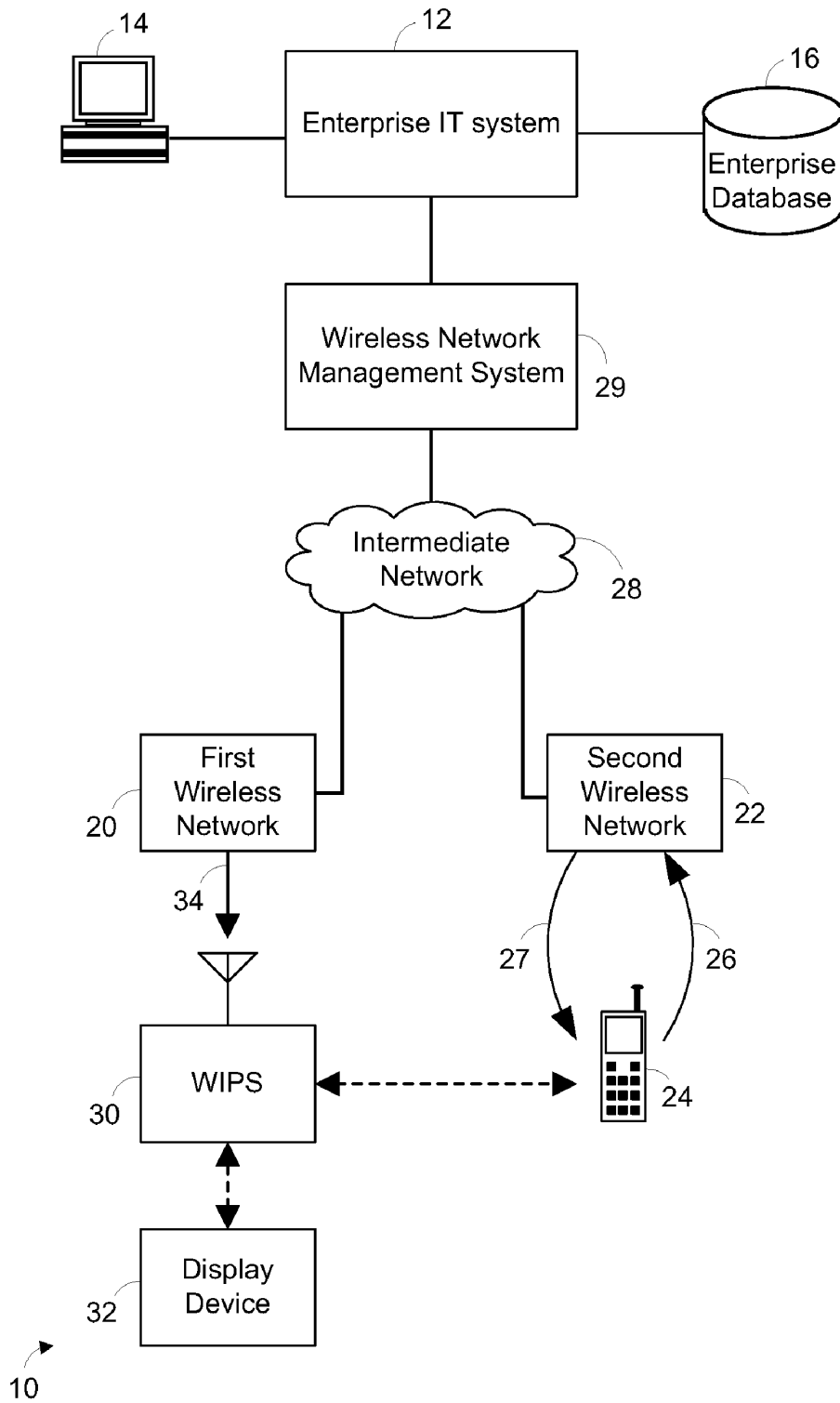


FIG. 1

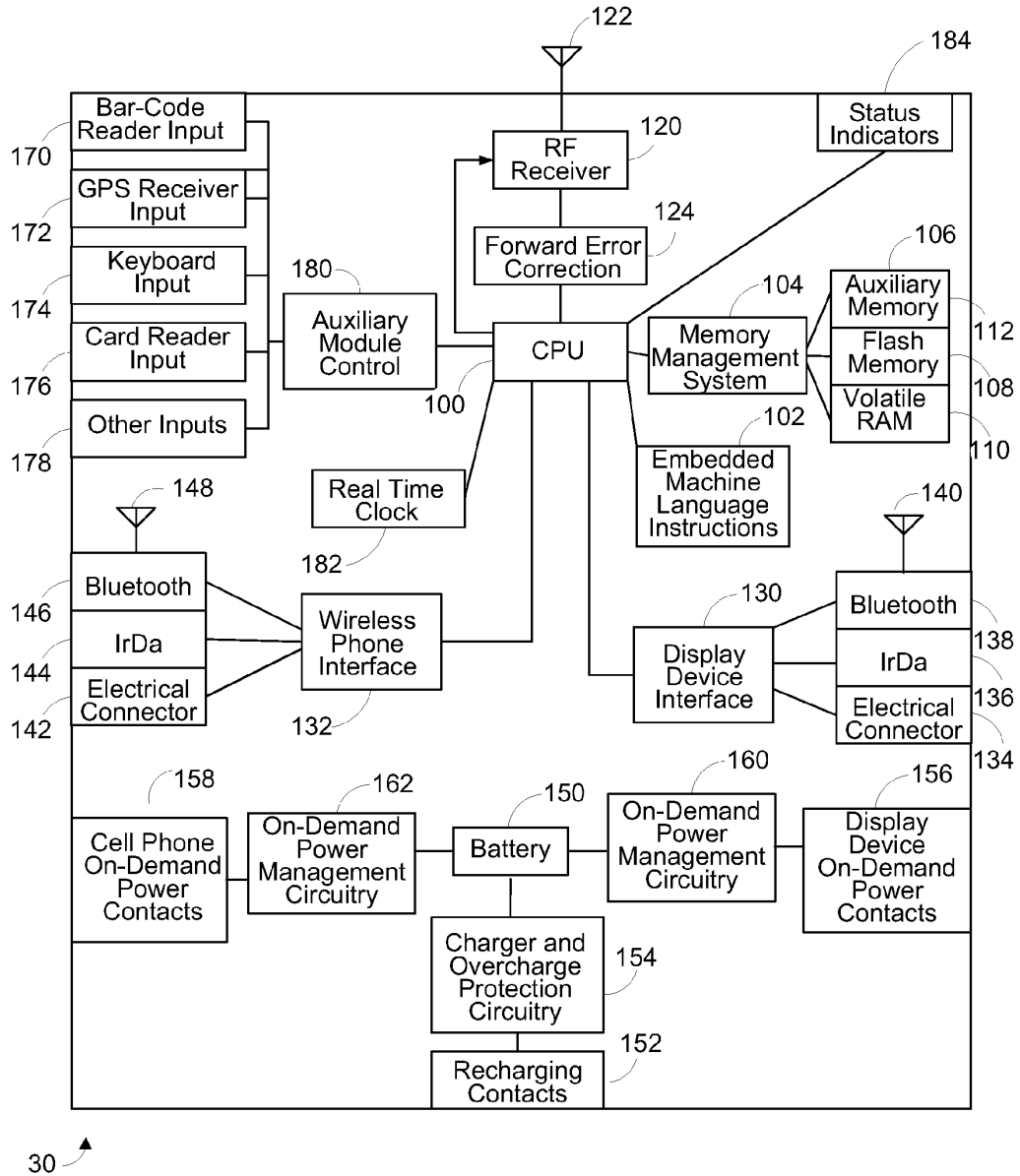


FIG. 2

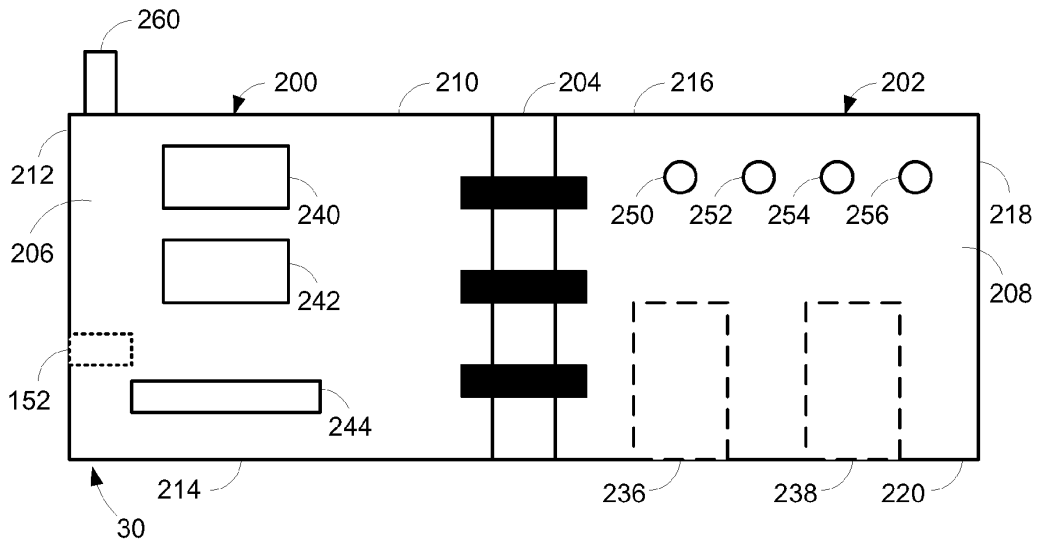


FIG. 3

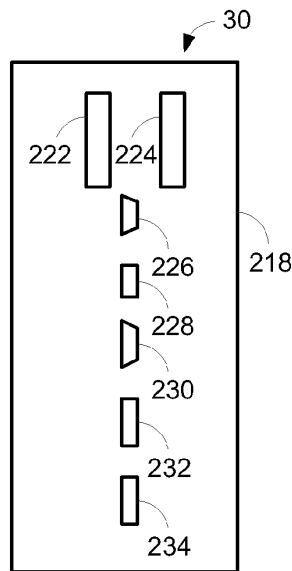


FIG. 4

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.