EXHIBIT 3

(12) United States Patent Menard

US 7,088,233 B2 (10) Patent No.:

Aug. 8, 2006 (45) **Date of Patent:**

(54) PERSONAL MEDICAL DEVICE COMMUNICATION SYSTEM AND METHOD

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MI (US)

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patent is extended or adjusted under 35

U.S.C. 154(b) by 0 days.

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- **U.S. Cl.** **340/539.1**; 340/539.11; 340/539.12; 340/539.13; 340/506; 340/531; 340/3.1; 340/533; 340/825.49
- Field of Classification Search 340/539.1, 340/539.11, 539.12, 539.13, 506, 511, 517, 340/524, 533, 537, 3.1, 825.36, 825.49

See application file for complete search history.

(56)References Cited

U.S. PATENT DOCUMENTS

3,843,841 A 10/1974 Rubinstein 3,969,709 A 7/1976 Isaacs et al. 4,237,344 A 12/1980 Moore

(Continued)

FOREIGN PATENT DOCUMENTS

DE	19962915 A1	9/2001
WO	WO 01/26335 A3	4/2001
WO	WO 01/47597 A2	7/2001

OTHER PUBLICATIONS

Bluetooth Product Design—a natural progression of our existing business,;RTX; 4 pgs

Your Vision—Our Solution; RTX Telecom; 5 pgs.

Lucent Technologies and Bluetooth; Lucent Technologies, Inc.; Dec., 1999; 2 pgs.

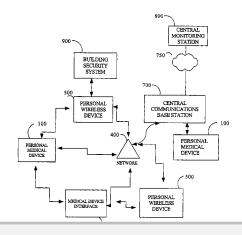
(Continued)

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(57)**ABSTRACT**

A personal and/or institutional health and wellness communications system, which may be used for a variety of emergency and non-emergency situations using two-way communication devices and a bi-directional communication network. In one application two-way pagers are adapted for use in the system. In one application cellular devices are adapted for use in the system. In one application an assisted living response center is established using various embodiments of the present personal and/or institutional communications system. The system provides multiple levels of prioritization, authentication of person (task, step, process or order), and confirmation via interrogation of person, device, or related monitor. One embodiment provides a method for receiving, evaluating and responding to calls received from a subscriber, patient, related party, or health care provider or health care system.

57 Claims, 9 Drawing Sheets





US 7,088,233 B2

Page 2

U.S. PATENT	DOCLIMENTS	5 007 270 A 5/1000 Daving et al
	DOCUMENTS	5,907,279 A 5/1999 Bruins et al.
4,284,849 A 8/1981	Anderson et al.	5,917,405 A 6/1999 Joao
	Anderson et al.	5,933,080 A 8/1999 Nojima
	Reinhold, Jr	5,959,529 A 9/1999 Kail, IV
4,772,876 A 9/1988		6,023,223 A 2/2000 Baxter, Jr.
		6,023,241 A 2/2000 Clapper
	Fuller et al.	6,028,514 A 2/2000 Lemelson et al.
, ,	Saunders	6,035,021 A 3/2000 Katz
	Martinez	6,044,257 A 3/2000 Boling et al.
	Smith et al.	6,057,758 A 5/2000 Dempsey et al.
	Kratt et al.	6,087,952 A 7/2000 Prabhakaran
	Dessertine	6,118,866 A 9/2000 Shtivelman
5,025,374 A 6/1991	Roizen et al.	6,288,641 B1 9/2001 Casais
5,062,147 A 10/1991	Pickett	6,295,346 B1 9/2001 Markowitz et al.
	Drori et al.	6,340,928 B1 1/2002 McCurdy
5,128,979 A 7/1992	Reich et al.	6,388,612 B1 5/2002 Neher
5,179,571 A 1/1993	Schilling	-,,
5,195,126 A 3/1993	Carrier et al.	OTHER PUBLICATIONS
	Mansell et al.	
	Christ et al.	Houston, Jerry; Socket Teams with Cambridge Silicon
	Pagliaroli et al.	Radio for Bluetooth Cordless Networking on Windows CE;
	Lauterbach et al.	Socket Communications, Inc., 1999; 2 pgs.
	Russek et al.	Technology Solutions for Bluetooth; Ericsson Microelec-
5,319,698 A 6/1994	Glidewell	
	Seazholtz et al.	tronics; Nov., 1999; 2 pgs.
		The Secret of Success!, Signal Newletter No. 3—The Offi-
	Lahtinen	cial Newsletter of the Bluetooth Special Interest Group;
	Kirk et al.	Nov., 1999; 8 pgs.
5,398,782 A 3/1995		Unleash the World—Core Technology for Bluetooth appli-
	Delahanty	cations; Ericsson Mobile Communications AB, 1999; 7 pgs.
	Zuckerman et al.	
	Parkhurst et al.	Wireless Connections Made Easy; Bluetooth; 19 pgs.
	Stutman et al.	Get a better vantage point and outmaneuver the competition;
5,432,841 A 7/1995		Cadence Design Systems, Inc.; 1999; 2 pgs.
	Rappaport et al.	Empowering the mobile enterprise; Puma Technology, Inc.;
5,485,504 A 1/1996	Ohnsorge	1996–1999; 2 pgs.
5,513,111 A 4/1996	Wortham	Designing Solutions for the Internet Economy, Intel Devel-
5,568,535 A 10/1996	Sheffer et al.	oper Forum Spring 2000; Feb. 15–17, 2000; 2 pgs.
5,570,083 A 10/1996	Johnson	
5,583,831 A 12/1996	Churchill et al.	Socket's Bluetooth Cordless Communications Card; Socket
5,587,701 A 12/1996	Hess	Communications, Inc.; Dec., 1999; 2 pgs.
5,630,207 A 5/1997	Gitlin et al.	Nobel, Carmen; Microsoft jumps on Bluetooth bandwagon;
5,640,147 A 6/1997	Chek et al.	PC Week; Dec. 6, 1999; 1 pg.
5,652,564 A 7/1997	Winbush	CreataLink; Motorola, Inc., 1999; 2 pgs.
	Lepkofker	
5,652,570 A 7/1997	Lepkofker	Bluetooth White Paper; AU-System AB; 1999; entire pam-
5,652,570 A 7/1997 5,687,215 A 11/1997	Lepkofker Timm et al.	Bluetooth White Paper; AU–System AB; 1999; entire pamphlet.
5,652,570 A 7/1997 5,687,215 A 11/1997 5,712,619 A 1/1998	Lepkofker Timm et al. Simkin	Bluetooth White Paper; AU–System AB; 1999; entire pamphlet. Object GEODE—The Most Advanced Integrated Environ-
5,652,570 A 7/1997 5,687,215 A 11/1997 5,712,619 A 1/1998 5,719,551 A 2/1998	Lepkofker Timm et al. Simkin Flick	Bluetooth White Paper; AU–System AB; 1999; entire pamphlet. Object GEODE—The Most Advanced Integrated Environment for the Development of Distributed Real–time Sys-
5,652,570 A 7/1997 5,687,215 A 11/1997 5,712,619 A 1/1998 5,719,551 A 2/1998 5,736,932 A 4/1998	Lepkofker Timm et al. Simkin Flick Bulfer et al.	Bluetooth White Paper; AU–System AB; 1999; entire pamphlet. Object GEODE—The Most Advanced Integrated Environment for the Development of Distributed Real–time Systems; VERIOLOG S.A.; 1998; entire brochure.
5,652,570 A 7/1997 5,687,215 A 11/1997 5,712,619 A 1/1998 5,719,551 A 2/1998 5,736,932 A 4/1998 5,739,748 A 4/1998	Lepkofker Timm et al. Simkin Flick Bulfer et al. Flick	Bluetooth White Paper; AU–System AB; 1999; entire pamphlet. Object GEODE—The Most Advanced Integrated Environment for the Development of Distributed Real–time Sys-
5,652,570 A 7/1997 5,687,215 A 11/1997 5,712,619 A 1/1998 5,719,551 A 2/1998 5,736,932 A 4/1998 5,739,748 A 4/1998 5,742,233 A 4/1998	Lepkofker Timm et al. Simkin Flick Bulfer et al. Flick Hoffman et al.	Bluetooth White Paper; AU–System AB; 1999; entire pamphlet. Object GEODE—The Most Advanced Integrated Environment for the Development of Distributed Real–time Systems; VERIOLOG S.A.; 1998; entire brochure. Bluetooth—solutions for personal area networking; TDK
5,652,570 A 7/1997 5,687,215 A 11/1997 5,712,619 A 1/1998 5,719,551 A 2/1998 5,736,932 A 4/1998 5,739,748 A 4/1998 5,742,233 A 4/1998 5,752,976 A 5/1998	Lepkofker Timm et al. Simkin Flick Bulfer et al. Flick Hoffman et al. Duffin et al.	Bluetooth White Paper; AU–System AB; 1999; entire pamphlet. Object GEODE—The Most Advanced Integrated Environment for the Development of Distributed Real–time Systems; VERIOLOG S.A.; 1998; entire brochure. Bluetooth—solutions for personal area networking; TDK Systems, Inc.; 4 pgs.
5,652,570 A 7/1997 5,687,215 A 11/1997 5,712,619 A 1/1998 5,719,551 A 2/1998 5,736,932 A 4/1998 5,739,748 A 4/1998 5,742,233 A 4/1998 5,752,976 A 5/1998 5,754,111 A 5/1998	Lepkofker Timm et al. Simkin Flick Bulfer et al. Flick Hoffman et al. Duffin et al. Garcia	Bluetooth White Paper; AU–System AB; 1999; entire pamphlet. Object GEODE—The Most Advanced Integrated Environment for the Development of Distributed Real–time Systems; VERIOLOG S.A.; 1998; entire brochure. Bluetooth—solutions for personal area networking; TDK Systems, Inc.; 4 pgs. Digianswer Bluetooth—Development and Demonstration
5,652,570 A 7/1997 5,687,215 A 11/1997 5,712,619 A 1/1998 5,719,551 A 2/1998 5,736,932 A 4/1998 5,739,748 A 4/1998 5,742,233 A 4/1998 5,752,976 A 5/1998 5,754,111 A 5/1998 5,777,551 A 7/1998	Lepkofker Timm et al. Simkin Flick Bulfer et al. Flick Hoffman et al. Duffin et al. Garcia Hess	Bluetooth White Paper; AU–System AB; 1999; entire pamphlet. Object GEODE—The Most Advanced Integrated Environment for the Development of Distributed Real–time Systems; VERIOLOG S.A.; 1998; entire brochure. Bluetooth—solutions for personal area networking; TDK Systems, Inc.; 4 pgs. Digianswer Bluetooth—Development and Demonstration Tools Product Sheet; DIGIANSWER A/S; 6 pgs.
5,652,570 A 7/1997 5,687,215 A 11/1997 5,712,619 A 1/1998 5,719,551 A 2/1998 5,736,932 A 4/1998 5,739,748 A 4/1998 5,742,233 A 4/1998 5,752,976 A 5/1998 5,754,111 A 5/1998 5,777,551 A 7/1998 5,784,685 A 7/1998	Lepkofker Timm et al. Simkin Flick Bulfer et al. Flick Hoffman et al. Duffin et al. Garcia Hess Stanford et al.	Bluetooth White Paper; AU–System AB; 1999; entire pamphlet. Object GEODE—The Most Advanced Integrated Environment for the Development of Distributed Real–time Systems; VERIOLOG S.A.; 1998; entire brochure. Bluetooth—solutions for personal area networking; TDK Systems, Inc.; 4 pgs. Digianswer Bluetooth—Development and Demonstration Tools Product Sheet; DIGIANSWER A/S; 6 pgs. The Ericsson Bluetooth Development Kit, Ericsson Mobile
5,652,570 A 7/1997 5,687,215 A 11/1997 5,712,619 A 1/1998 5,719,551 A 2/1998 5,736,932 A 4/1998 5,739,748 A 4/1998 5,742,233 A 4/1998 5,752,976 A 5/1998 5,754,111 A 5/1998 5,775,551 A 7/1998 5,784,685 A 7/1998 5,786,746 A 7/1998	Lepkofker Timm et al. Simkin Flick Bulfer et al. Flick Hoffman et al. Duffin et al. Garcia Hess Stanford et al. Lombardo et al.	Bluetooth White Paper; AU–System AB; 1999; entire pamphlet. Object GEODE—The Most Advanced Integrated Environment for the Development of Distributed Real–time Systems; VERIOLOG S.A.; 1998; entire brochure. Bluetooth—solutions for personal area networking; TDK Systems, Inc.; 4 pgs. Digianswer Bluetooth—Development and Demonstration Tools Product Sheet; DIGIANSWER A/S; 6 pgs. The Ericsson Bluetooth Development Kit, Ericsson Mobile Communications, AB; 1999; 2 pgs.
5,652,570 A 7/1997 5,687,215 A 11/1997 5,712,619 A 1/1998 5,719,551 A 2/1998 5,736,932 A 4/1998 5,739,748 A 4/1998 5,742,233 A 4/1998 5,752,976 A 5/1998 5,754,111 A 5/1998 5,775,551 A 7/1998 5,784,685 A 7/1998 5,786,746 A 7/1998 5,793,283 A 8/1998	Lepkofker Timm et al. Simkin Flick Bulfer et al. Flick Hoffman et al. Duffin et al. Garcia Hess Stanford et al. Lombardo et al. Davis	Bluetooth White Paper; AU–System AB; 1999; entire pamphlet. Object GEODE—The Most Advanced Integrated Environment for the Development of Distributed Real–time Systems; VERIOLOG S.A.; 1998; entire brochure. Bluetooth—solutions for personal area networking; TDK Systems, Inc.; 4 pgs. Digianswer Bluetooth—Development and Demonstration Tools Product Sheet; DIGIANSWER A/S; 6 pgs. The Ericsson Bluetooth Development Kit, Ericsson Mobile
5,652,570 A 7/1997 5,687,215 A 11/1997 5,712,619 A 1/1998 5,719,551 A 2/1998 5,736,932 A 4/1998 5,739,748 A 4/1998 5,742,233 A 4/1998 5,752,976 A 5/1998 5,754,111 A 5/1998 5,7754,111 A 5/1998 5,7754,685 A 7/1998 5,786,746 A 7/1998 5,793,283 A 8/1998 5,812,536 A 9/1998	Lepkofker Timm et al. Simkin Flick Bulfer et al. Flick Hoffman et al. Duffin et al. Garcia Hess Stanford et al. Lombardo et al. Davis Manduely	Bluetooth White Paper; AU–System AB; 1999; entire pamphlet. Object GEODE—The Most Advanced Integrated Environment for the Development of Distributed Real–time Systems; VERIOLOG S.A.; 1998; entire brochure. Bluetooth—solutions for personal area networking; TDK Systems, Inc.; 4 pgs. Digianswer Bluetooth—Development and Demonstration Tools Product Sheet; DIGIANSWER A/S; 6 pgs. The Ericsson Bluetooth Development Kit, Ericsson Mobile Communications, AB; 1999; 2 pgs. Bluetooth Blue—Share Product Brief; ACER NeWeb Corpo-
5,652,570 A 7/1997 5,687,215 A 11/1997 5,712,619 A 1/1998 5,719,551 A 2/1998 5,736,932 A 4/1998 5,739,748 A 4/1998 5,742,233 A 4/1998 5,752,976 A 5/1998 5,754,111 A 5/1998 5,7754,111 A 5/1998 5,784,685 A 7/1998 5,784,685 A 7/1998 5,783,283 A 8/1998 5,812,536 A 9/1998 5,815,417 A 9/1998	Lepkofker Timm et al. Simkin Flick Bulfer et al. Flick Hoffman et al. Duffin et al. Garcia Hess Stanford et al. Lombardo et al. Davis Manduely Orr et al.	Bluetooth White Paper; AU–System AB; 1999; entire pamphlet. Object GEODE—The Most Advanced Integrated Environment for the Development of Distributed Real–time Systems; VERIOLOG S.A.; 1998; entire brochure. Bluetooth—solutions for personal area networking; TDK Systems, Inc.; 4 pgs. Digianswer Bluetooth—Development and Demonstration Tools Product Sheet; DIGIANSWER A/S; 6 pgs. The Ericsson Bluetooth Development Kit, Ericsson Mobile Communications, AB; 1999; 2 pgs. Bluetooth Blue–Share Product Brief; ACER NeWeb Corporation; 1 pg.
5,652,570 A 7/1997 5,687,215 A 11/1997 5,712,619 A 1/1998 5,719,551 A 2/1998 5,736,932 A 4/1998 5,736,932 A 4/1998 5,742,233 A 4/1998 5,752,976 A 5/1998 5,754,111 A 5/1998 5,754,111 A 5/1998 5,777,551 A 7/1998 5,784,685 A 7/1998 5,786,746 A 7/1998 5,793,283 A 8/1998 5,812,536 A 9/1998 5,812,536 A 9/1998 5,815,417 A 9/1998 5,821,854 A 10/1998	Lepkofker Timm et al. Simkin Flick Bulfer et al. Flick Hoffman et al. Duffin et al. Garcia Hess Stanford et al. Lombardo et al. Davis Manduely Orr et al. Dorinski et al.	Bluetooth White Paper; AU–System AB; 1999; entire pamphlet. Object GEODE—The Most Advanced Integrated Environment for the Development of Distributed Real–time Systems; VERIOLOG S.A.; 1998; entire brochure. Bluetooth—solutions for personal area networking; TDK Systems, Inc.; 4 pgs. Digianswer Bluetooth—Development and Demonstration Tools Product Sheet; DIGIANSWER A/S; 6 pgs. The Ericsson Bluetooth Development Kit, Ericsson Mobile Communications, AB; 1999; 2 pgs. Bluetooth Blue—Share Product Brief; ACER NeWeb Corporation; 1 pg. Blue—Connect Product Brief; ACER NeWeb Corporation; 1
5,652,570 A 7/1997 5,687,215 A 11/1997 5,712,619 A 1/1998 5,719,551 A 2/1998 5,736,932 A 4/1998 5,736,932 A 4/1998 5,742,233 A 4/1998 5,742,233 A 4/1998 5,752,976 A 5/1998 5,754,111 A 5/1998 5,754,111 A 5/1998 5,777,551 A 7/1998 5,784,685 A 7/1998 5,786,746 A 7/1998 5,793,283 A 8/1998 5,812,536 A 9/1998 5,815,417 A 9/1998 5,821,854 A 10/1998 5,825,283 A 10/1998	Lepkofker Timm et al. Simkin Flick Bulfer et al. Flick Hoffman et al. Duffin et al. Garcia Hess Stanford et al. Lombardo et al. Davis Manduely Orr et al. Dorinski et al. Camhi	Bluetooth White Paper; AU–System AB; 1999; entire pamphlet. Object GEODE—The Most Advanced Integrated Environment for the Development of Distributed Real–time Systems; VERIOLOG S.A.; 1998; entire brochure. Bluetooth—solutions for personal area networking; TDK Systems, Inc.; 4 pgs. Digianswer Bluetooth—Development and Demonstration Tools Product Sheet; DIGIANSWER A/S; 6 pgs. The Ericsson Bluetooth Development Kit, Ericsson Mobile Communications, AB; 1999; 2 pgs. Bluetooth Blue—Share Product Brief; ACER NeWeb Corporation; 1 pg. Blue—Connect Product Brief; ACER NeWeb Corporation; 1 pg.
5,652,570 A 7/1997 5,687,215 A 11/1997 5,712,619 A 1/1998 5,719,551 A 2/1998 5,736,932 A 4/1998 5,739,748 A 4/1998 5,742,233 A 4/1998 5,752,976 A 5/1998 5,754,111 A 5/1998 5,754,111 A 5/1998 5,777,551 A 7/1998 5,784,685 A 7/1998 5,786,746 A 7/1998 5,783,283 A 8/1998 5,812,536 A 9/1998 5,815,417 A 9/1998 5,815,417 A 9/1998 5,821,854 A 10/1998 5,825,283 A 10/1998 5,825,283 A 12/1998	Lepkofker Timm et al. Simkin Flick Bulfer et al. Flick Hoffman et al. Duffin et al. Garcia Hess Stanford et al. Lombardo et al. Davis Manduely Orr et al. Dorinski et al. Camhi LaDue	Bluetooth White Paper; AU–System AB; 1999; entire pamphlet. Object GEODE—The Most Advanced Integrated Environment for the Development of Distributed Real–time Systems; VERIOLOG S.A.; 1998; entire brochure. Bluetooth—solutions for personal area networking; TDK Systems, Inc.; 4 pgs. Digianswer Bluetooth—Development and Demonstration Tools Product Sheet; DIGIANSWER A/S; 6 pgs. The Ericsson Bluetooth Development Kit, Ericsson Mobile Communications, AB; 1999; 2 pgs. Bluetooth Blue—Share Product Brief; ACER NeWeb Corporation; 1 pg. Blue—Connect Product Brief; ACER NeWeb Corporation; 1 pg. Bluetooth Development using SDL, MSC and TTCN; Tele-
5,652,570 A 7/1997 5,687,215 A 11/1997 5,712,619 A 1/1998 5,719,551 A 2/1998 5,736,932 A 4/1998 5,739,748 A 4/1998 5,742,233 A 4/1998 5,754,111 A 5/1998 5,754,111 A 5/1998 5,754,685 A 7/1998 5,786,746 A 7/1998 5,786,746 A 7/1998 5,7812,536 A 9/1998 5,812,536 A 9/1998 5,812,536 A 10/1998 5,821,854 A 10/1998 5,825,283 A 10/1998 5,845,203 A 12/1998 5,850,180 A 12/1998	Lepkofker Timm et al. Simkin Flick Bulfer et al. Flick Hoffman et al. Duffin et al. Garcia Hess Stanford et al. Lombardo et al. Davis Manduely Orr et al. Dorinski et al. Camhi LaDue Hess	Bluetooth White Paper; AU–System AB; 1999; entire pamphlet. Object GEODE—The Most Advanced Integrated Environment for the Development of Distributed Real–time Systems; VERIOLOG S.A.; 1998; entire brochure. Bluetooth—solutions for personal area networking; TDK Systems, Inc.; 4 pgs. Digianswer Bluetooth—Development and Demonstration Tools Product Sheet; DIGIANSWER A/S; 6 pgs. The Ericsson Bluetooth Development Kit, Ericsson Mobile Communications, AB; 1999; 2 pgs. Bluetooth Blue—Share Product Brief; ACER NeWeb Corporation; 1 pg. Blue—Connect Product Brief; ACER NeWeb Corporation; 1 pg. Bluetooth Development using SDL, MSC and TTCN; Telelogic AB; 13 pgs.
5,652,570 A 7/1997 5,687,215 A 11/1997 5,712,619 A 1/1998 5,719,551 A 2/1998 5,736,932 A 4/1998 5,739,748 A 4/1998 5,742,233 A 4/1998 5,752,976 A 5/1998 5,754,111 A 5/1998 5,754,111 A 5/1998 5,777,551 A 7/1998 5,784,685 A 7/1998 5,786,746 A 7/1998 5,793,283 A 8/1998 5,812,536 A 9/1998 5,815,417 A 9/1998 5,821,854 A 10/1998 5,825,283 A 10/1998 5,845,203 A 12/1998 5,850,180 A 12/1998 5,850,344 A 12/1998	Lepkofker Timm et al. Simkin Flick Bulfer et al. Flick Hoffman et al. Duffin et al. Garcia Hess Stanford et al. Lombardo et al. Davis Manduely Orr et al. Dorinski et al. Camhi LaDue Hess Conkright	Bluetooth White Paper; AU–System AB; 1999; entire pamphlet. Object GEODE—The Most Advanced Integrated Environment for the Development of Distributed Real–time Systems; VERIOLOG S.A.; 1998; entire brochure. Bluetooth—solutions for personal area networking; TDK Systems, Inc.; 4 pgs. Digianswer Bluetooth—Development and Demonstration Tools Product Sheet; DIGIANSWER A/S; 6 pgs. The Ericsson Bluetooth Development Kit, Ericsson Mobile Communications, AB; 1999; 2 pgs. Bluetooth Blue—Share Product Brief; ACER NeWeb Corporation; 1 pg. Blue—Connect Product Brief; ACER NeWeb Corporation; 1 pg. Bluetooth Development using SDL, MSC and TTCN; Telelogic AB; 13 pgs. Emlation System Speeds Development of CDMA Satcom
5,652,570 A 7/1997 5,687,215 A 11/1997 5,712,619 A 1/1998 5,719,551 A 2/1998 5,736,932 A 4/1998 5,739,748 A 4/1998 5,742,233 A 4/1998 5,752,976 A 5/1998 5,754,111 A 5/1998 5,754,4685 A 7/1998 5,784,685 A 7/1998 5,786,746 A 7/1998 5,793,283 A 8/1998 5,812,536 A 9/1998 5,812,536 A 9/1998 5,815,417 A 9/1998 5,821,854 A 10/1998 5,825,283 A 10/1998 5,845,0180 A 12/1998 5,850,344 A 12/1998 5,850,344 A 12/1998 5,852,408 A 12/1998	Lepkofker Timm et al. Simkin Flick Bulfer et al. Flick Hoffman et al. Ouflin et al. Garcia Hess Stanford et al. Lombardo et al. Lombardo et al. Davis Manduely Orr et al. Dorinski et al. Camhi LaDue Hess Conkright Christiansen et al.	Bluetooth White Paper; AU–System AB; 1999; entire pamphlet. Object GEODE—The Most Advanced Integrated Environment for the Development of Distributed Real–time Systems; VERIOLOG S.A.; 1998; entire brochure. Bluetooth—solutions for personal area networking; TDK Systems, Inc.; 4 pgs. Digianswer Bluetooth—Development and Demonstration Tools Product Sheet; DIGIANSWER A/S; 6 pgs. The Ericsson Bluetooth Development Kit, Ericsson Mobile Communications, AB; 1999; 2 pgs. Bluetooth Blue—Share Product Brief; ACER NeWeb Corporation; 1 pg. Blue—Connect Product Brief; ACER NeWeb Corporation; 1 pg. Bluetooth Development using SDL, MSC and TTCN; Telelogic AB; 13 pgs.
5,652,570 A 7/1997 5,687,215 A 11/1997 5,712,619 A 1/1998 5,719,551 A 2/1998 5,736,932 A 4/1998 5,739,748 A 4/1998 5,742,233 A 4/1998 5,752,976 A 5/1998 5,754,111 A 5/1998 5,754,4685 A 7/1998 5,784,685 A 7/1998 5,786,746 A 7/1998 5,793,283 A 8/1998 5,812,536 A 9/1998 5,812,536 A 9/1998 5,815,417 A 9/1998 5,821,854 A 10/1998 5,825,283 A 10/1998 5,845,0180 A 12/1998 5,850,344 A 12/1998 5,850,344 A 12/1998 5,852,408 A 12/1998	Lepkofker Timm et al. Simkin Flick Bulfer et al. Flick Hoffman et al. Duffin et al. Garcia Hess Stanford et al. Lombardo et al. Davis Manduely Orr et al. Dorinski et al. Camhi LaDue Hess Conkright	Bluetooth White Paper; AU–System AB; 1999; entire pamphlet. Object GEODE—The Most Advanced Integrated Environment for the Development of Distributed Real–time Systems; VERIOLOG S.A.; 1998; entire brochure. Bluetooth—solutions for personal area networking; TDK Systems, Inc.; 4 pgs. Digianswer Bluetooth—Development and Demonstration Tools Product Sheet; DIGIANSWER A/S; 6 pgs. The Ericsson Bluetooth Development Kit, Ericsson Mobile Communications, AB; 1999; 2 pgs. Bluetooth Blue—Share Product Brief; ACER NeWeb Corporation; 1 pg. Blue—Connect Product Brief; ACER NeWeb Corporation; 1 pg. Bluetooth Development using SDL, MSC and TTCN; Telelogic AB; 13 pgs. Emlation System Speeds Development of CDMA Satcom Handsets; Penton Publishing, Inc.; 1997; 4 pgs.
5,652,570 A 7/1997 5,687,215 A 11/1997 5,712,619 A 1/1998 5,719,551 A 2/1998 5,736,932 A 4/1998 5,736,932 A 4/1998 5,742,233 A 4/1998 5,752,976 A 5/1998 5,754,111 A 5/1998 5,754,111 A 5/1998 5,784,685 A 7/1998 5,786,746 A 7/1998 5,793,283 A 8/1998 5,812,536 A 9/1998 5,812,536 A 9/1998 5,812,536 A 10/1998 5,821,854 A 10/1998 5,825,283 A 10/1998 5,850,180 A 12/1998 5,850,180 A 12/1998 5,850,344 A 12/1998 5,850,408 A 12/1998 5,852,408 A 12/1998 5,870,020 A 2/1999 5,873,043 A 2/1999	Lepkofker Timm et al. Simkin Flick Bulfer et al. Flick Hoffman et al. Duffin et al. Garcia Hess Stanford et al. Lombardo et al. Davis Manduely Orr et al. Dorinski et al. Camhi LaDue Hess Conkright Christiansen et al. Harrison, Jr. Comer	Bluetooth White Paper; AU–System AB; 1999; entire pamphlet. Object GEODE—The Most Advanced Integrated Environment for the Development of Distributed Real–time Systems; VERIOLOG S.A.; 1998; entire brochure. Bluetooth—solutions for personal area networking; TDK Systems, Inc.; 4 pgs. Digianswer Bluetooth—Development and Demonstration Tools Product Sheet; DIGIANSWER A/S; 6 pgs. The Ericsson Bluetooth Development Kit, Ericsson Mobile Communications, AB; 1999; 2 pgs. Bluetooth Blue—Share Product Brief; ACER NeWeb Corporation; 1 pg. Blue—Connect Product Brief; ACER NeWeb Corporation; 1 pg. Bluetooth Development using SDL, MSC and TTCN; Telelogic AB; 13 pgs. Emlation System Speeds Development of CDMA Satcom Handsets; Penton Publishing, Inc.; 1997; 4 pgs. DIGIANSWER/Bluetooth Technology; Digainswer (Irl)
5,652,570 A 7/1997 5,687,215 A 11/1997 5,712,619 A 1/1998 5,719,551 A 2/1998 5,736,932 A 4/1998 5,736,932 A 4/1998 5,742,233 A 4/1998 5,752,976 A 5/1998 5,754,111 A 5/1998 5,754,111 A 5/1998 5,784,685 A 7/1998 5,786,746 A 7/1998 5,793,283 A 8/1998 5,812,536 A 9/1998 5,812,536 A 9/1998 5,812,536 A 10/1998 5,821,854 A 10/1998 5,825,283 A 10/1998 5,850,180 A 12/1998 5,850,180 A 12/1998 5,850,344 A 12/1998 5,850,408 A 12/1998 5,852,408 A 12/1998 5,870,020 A 2/1999 5,873,043 A 2/1999	Lepkofker Timm et al. Simkin Flick Bulfer et al. Flick Hoffman et al. Ouflin et al. Garcia Hess Stanford et al. Lombardo et al. Lombardo et al. Davis Manduely Orr et al. Dorinski et al. Camhi LaDue Hess Conkright Christiansen et al. Harrison, Jr.	Bluetooth White Paper; AU–System AB; 1999; entire pamphlet. Object GEODE—The Most Advanced Integrated Environment for the Development of Distributed Real–time Systems; VERIOLOG S.A.; 1998; entire brochure. Bluetooth—solutions for personal area networking; TDK Systems, Inc.; 4 pgs. Digianswer Bluetooth—Development and Demonstration Tools Product Sheet; DIGIANSWER A/S; 6 pgs. The Ericsson Bluetooth Development Kit, Ericsson Mobile Communications, AB; 1999; 2 pgs. Bluetooth Blue—Share Product Brief; ACER NeWeb Corporation; 1 pg. Blue—Connect Product Brief; ACER NeWeb Corporation; 1 pg. Bluetooth Development using SDL, MSC and TTCN; Telelogic AB; 13 pgs. Emlation System Speeds Development of CDMA Satcom Handsets; Penton Publishing, Inc.; 1997; 4 pgs. DIGIANSWER/Bluetooth Technology; Digainswer (Irl) Ltd.; 8 pgs.
5,652,570 A 7/1997 5,687,215 A 11/1997 5,712,619 A 1/1998 5,719,551 A 2/1998 5,736,932 A 4/1998 5,736,932 A 4/1998 5,742,233 A 4/1998 5,752,976 A 5/1998 5,754,111 A 5/1998 5,754,111 A 5/1998 5,784,685 A 7/1998 5,786,746 A 7/1998 5,793,283 A 8/1998 5,812,536 A 9/1998 5,812,536 A 9/1998 5,812,536 A 10/1998 5,821,854 A 10/1998 5,825,283 A 10/1998 5,850,180 A 12/1998 5,850,180 A 12/1998 5,850,344 A 12/1998 5,850,408 A 12/1998 5,852,408 A 12/1998 5,870,020 A 2/1999 5,873,043 A 2/1999	Lepkofker Timm et al. Simkin Flick Bulfer et al. Flick Hoffman et al. Duffin et al. Garcia Hess Stanford et al. Lombardo et al. Davis Manduely Orr et al. Dorinski et al. Camhi LaDue Hess Conkright Christiansen et al. Harrison, Jr. Comer Higdon et al.	Bluetooth White Paper; AU–System AB; 1999; entire pamphlet. Object GEODE—The Most Advanced Integrated Environment for the Development of Distributed Real–time Systems; VERIOLOG S.A.; 1998; entire brochure. Bluetooth—solutions for personal area networking; TDK Systems, Inc.; 4 pgs. Digianswer Bluetooth—Development and Demonstration Tools Product Sheet; DIGIANSWER A/S; 6 pgs. The Ericsson Bluetooth Development Kit, Ericsson Mobile Communications, AB; 1999; 2 pgs. Bluetooth Blue—Share Product Brief; ACER NeWeb Corporation; 1 pg. Blue—Connect Product Brief; ACER NeWeb Corporation; 1 pg. Bluetooth Development using SDL, MSC and TTCN; Telelogic AB; 13 pgs. Emlation System Speeds Development of CDMA Satcom Handsets; Penton Publishing, Inc.; 1997; 4 pgs. DIGIANSWER/Bluetooth Technology; Digainswer (Irl) Ltd.; 8 pgs. UMTS W—CDMA Technology Development Using the
5,652,570 A 7/1997 5,687,215 A 11/1997 5,712,619 A 1/1998 5,719,551 A 2/1998 5,736,932 A 4/1998 5,739,748 A 4/1998 5,732,976 A 5/1998 5,752,976 A 5/1998 5,754,111 A 5/1998 5,754,111 A 5/1998 5,754,111 A 5/1998 5,784,685 A 7/1998 5,786,746 A 7/1998 5,793,283 A 8/1998 5,812,536 A 9/1998 5,812,536 A 9/1998 5,812,536 A 10/1998 5,815,417 A 9/1998 5,815,417 A 9/1998 5,821,854 A 10/1998 5,850,344 A 12/1998 5,850,344 A 12/1998 5,850,344 A 12/1998 5,870,020 A 2/1999 5,873,043 A 2/1999 5,873,043 A 2/1999 5,874,889 A 2/1999 5,874,889 A 2/1999	Lepkofker Timm et al. Simkin Flick Bulfer et al. Flick Hoffman et al. Duffin et al. Garcia Hess Stanford et al. Lombardo et al. Davis Manduely Orr et al. Dorinski et al. Camhi LaDue Hess Conkright Christiansen et al. Harrison, Jr. Comer Higdon et al.	Bluetooth White Paper; AU–System AB; 1999; entire pamphlet. Object GEODE—The Most Advanced Integrated Environment for the Development of Distributed Real–time Systems; VERIOLOG S.A.; 1998; entire brochure. Bluetooth—solutions for personal area networking; TDK Systems, Inc.; 4 pgs. Digianswer Bluetooth—Development and Demonstration Tools Product Sheet; DIGIANSWER A/S; 6 pgs. The Ericsson Bluetooth Development Kit, Ericsson Mobile Communications, AB; 1999; 2 pgs. Bluetooth Blue—Share Product Brief; ACER NeWeb Corporation; 1 pg. Blue—Connect Product Brief; ACER NeWeb Corporation; 1 pg. Bluetooth Development using SDL, MSC and TTCN; Telelogic AB; 13 pgs. Emlation System Speeds Development of CDMA Satcom Handsets; Penton Publishing, Inc.; 1997; 4 pgs. DIGIANSWER/Bluetooth Technology; Digainswer (Irl) Ltd.; 8 pgs. UMTS W—CDMA Technology Development Using the Aptix System Explorer MP4 for Algorithm Verification;
5,652,570 A 7/1997 5,687,215 A 11/1997 5,712,619 A 1/1998 5,719,551 A 2/1998 5,736,932 A 4/1998 5,739,748 A 4/1998 5,752,976 A 5/1998 5,754,111 A 5/1998 5,754,111 A 5/1998 5,777,551 A 7/1998 5,784,685 A 7/1998 5,786,746 A 7/1998 5,793,283 A 8/1998 5,812,536 A 9/1998 5,812,536 A 9/1998 5,812,536 A 10/1998 5,812,536 A 10/1998 5,812,536 A 10/1998 5,852,283 A 10/1998 5,850,344 A 12/1998 5,850,344 A 12/1998 5,850,344 A 12/1998 5,850,344 A 12/1998 5,870,020 A 2/1999 5,873,043 A 2/1999 5,873,043 A 2/1999 5,873,043 A 2/1999 5,873,044 A 4/1999 5,894,591 A 4/1999	Lepkofker Timm et al. Simkin Flick Bulfer et al. Flick Hoffman et al. Duffin et al. Garcia Hess Stanford et al. Lombardo et al. Davis Manduely Orr et al. Dorinski et al. Camhi LaDue Hess Conkright Christiansen et al. Harrison, Jr. Comer Higdon et al. Ozery	Bluetooth White Paper; AU–System AB; 1999; entire pamphlet. Object GEODE—The Most Advanced Integrated Environment for the Development of Distributed Real–time Systems; VERIOLOG S.A.; 1998; entire brochure. Bluetooth—solutions for personal area networking; TDK Systems, Inc.; 4 pgs. Digianswer Bluetooth—Development and Demonstration Tools Product Sheet; DIGIANSWER A/S; 6 pgs. The Ericsson Bluetooth Development Kit, Ericsson Mobile Communications, AB; 1999; 2 pgs. Bluetooth Blue—Share Product Brief; ACER NeWeb Corporation; 1 pg. Blue—Connect Product Brief; ACER NeWeb Corporation; 1 pg. Bluetooth Development using SDL, MSC and TTCN; Telelogic AB; 13 pgs. Emlation System Speeds Development of CDMA Satcom Handsets; Penton Publishing, Inc.; 1997; 4 pgs. DIGIANSWER/Bluetooth Technology; Digainswer (Irl) Ltd.; 8 pgs. UMTS W—CDMA Technology Development Using the



US 7,088,233 B2

Page 3

Arm7 Thumb Family; Arm Powered; 4 pgs.

IVT—Bluetooth Protocol Stack SDL/C Source Code; Bluetooth; 2 pgs.

Spontaneous Connections; CommVerge; May, 2000; 6 pgs. OSE—the new generation realtime operating system; ENA OSE Systems; 1999; entire booklet.

Alarmnet-M Mobitex System; ArlamNet; 2000; 1 pg/. AlarmNet-C Control Channel Cellular; AlarmNet; 2000; 2 pgs.

Samsung Electronics Joins Home Radio Frequency Group in Development of Wireless Network for the Home; Samsung Electronics, 1998; pp. 1–2.

Tachless Remote Engine Starters; ALMEX, 2000; pp. 1–3. Introduction to the HomeRF Technical Specification; HomeRF; 2000; pp. 1–17.

Posti, J.; Motorola Introduces CreataLink 2 XT two-way data transceiver; Motorola Press Release; Mar., 1999; 2 pgs. CreataLink 2XT; Motorola Messaging Products; Mar., 1999; 1 pg.

CreataLink 2XT; Motorola; Nov., 2000; 1 pg. Skyroute Wireless Communications; 1974; pp. 1–4. 21st Century Emergency Safety Communications Policy; ComCARE Alliance; 2000; pp. 1–3.

AllNetDevices:—Geoworks, Openwave End Patent Fight; allNetDevices; 2000; 1 pg.

Automatic Crash Notification, ComCARE Alliance; 2000; 2 pgs.

Connect 24 Data Communications; Connect 24; 2001; 1 pg. Emergency 911 Cellular Phone and Cellular Phone Accessories; AAA Communications; 2001; 7 pgs.

Glossary; ComCARE Alliance; 2000; 3 pgs.

PSAP Updates and Third-Party Call Centers; ComCARE Alliance; 2000; 2 pgs.

Will the push—not pull—of Internet information dramatically alter our Web interactions?; Sunworld; 2000; 6 pgs.

ORA Electronics Introduces Rescue Mate, a Complete Cellular Telephone Safety Package; Hands–Free Operation, Instant Emergency 911 Access, Roadside Assistance Services; Business Wire; 1998; 2 pgs.

AllNetDevices:—The Device-Centric Home in 2000: Close, But No Cigar; Dec. 26, 2000; 3 pgs.

AlarmNet–A Original AlarmNet; Dec. 27, 2000; 2 pgs. Bluetooth; Wireless Connections Made Easy; 20 pgs.



U.S. Patent

Aug. 8, 2006

Sheet 1 of 9

US 7,088,233 B2

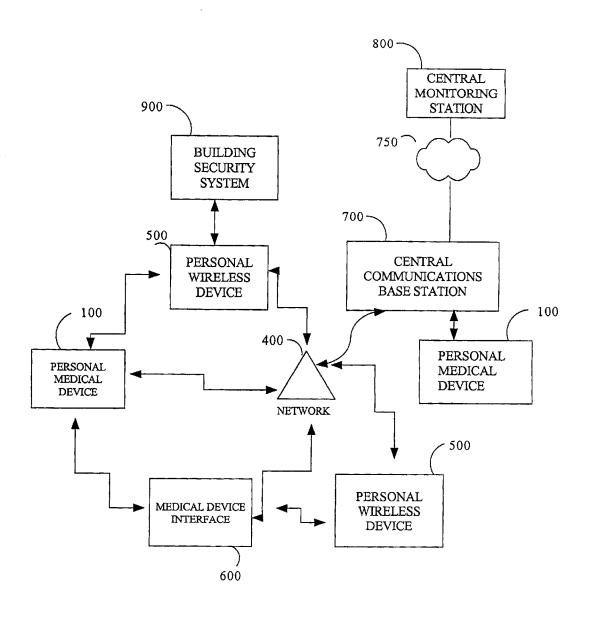


FIG. 1

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