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Petite

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(54) **SMOKE DETECTION METHODS, DEVICES, AND SYSTEMS**

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See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

3,665,475 A 5/1972 Gram

(Continued)

FOREIGN PATENT DOCUMENTS

DE WO 03/007264 1/2003

(Continued)

OTHER PUBLICATIONS

Brownrigg, Edwin, "User Provided Access to the Internet," Open Access Solutions, <http://web.simmons.edu/chen/nit/NIT'92/033-bro.htm>, Jun. 8, 2005-Jun. 9, 2005.

(Continued)

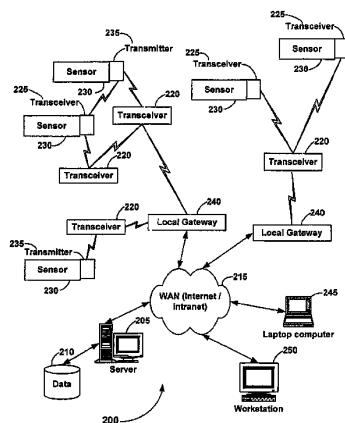
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(57) **ABSTRACT**

The present invention is directed to a system and method for accessing home monitoring devices remotely via a distributed wide-area network (WAN). More specifically, the present invention is directed towards a smoke detector system, which monitors for the presence of smoke and communicates the smoke condition to a remote location. The smoke detection system comprises a smoke detection device connected to a communication device. The smoke detection device outputs a signal or a change in a signal upon detection of smoke. This signal or change in signal is monitored by the communication device. The smoke condition is then communicated to the remote central location. Other embodiments are also claimed and described.

19 Claims, 14 Drawing Sheets



U.S. PATENT DOCUMENTS

3,705,385 A	12/1972	Batz	5,038,372 A	8/1991	Elms et al.
3,723,876 A	3/1973	Seaborn, Jr.	5,055,851 A	10/1991	Sheffer
3,742,142 A	6/1973	Martin	5,057,814 A	10/1991	Onan et al.
3,848,231 A	11/1974	Wooten	5,061,997 A	10/1991	Rea et al.
3,892,948 A	7/1975	Constable	5,086,391 A	2/1992	Chambers
3,906,460 A	9/1975	Halpern	5,091,713 A	2/1992	Horne et al.
3,914,692 A	10/1975	Seaborn, Jr.	5,111,199 A	5/1992	Tomoda et al.
3,922,492 A	11/1975	Lumsden	5,113,183 A	5/1992	Mizuno et al.
3,925,763 A	12/1975	Wadwhani et al.	5,113,184 A	5/1992	Katayama
4,025,315 A	5/1977	Mazelli	5,115,224 A	5/1992	Kostusiak et al.
4,056,684 A	11/1977	Lindstrom	5,115,433 A	5/1992	Baran et al.
4,058,672 A	11/1977	Crager et al.	5,124,624 A	6/1992	de Vries et al.
4,083,003 A	4/1978	Haemmig	5,128,855 A	7/1992	Hilber et al.
4,120,452 A	10/1978	Kimura et al.	5,130,519 A	7/1992	Bush et al.
4,124,839 A	11/1978	Cohen	5,131,038 A	7/1992	Puhl et al.
4,135,181 A	1/1979	Bogacki et al.	5,134,650 A	7/1992	Blackmon
4,204,195 A	5/1980	Bogacki	5,136,285 A	8/1992	Okuyama
4,213,119 A	7/1980	Ward et al.	5,155,481 A	10/1992	Brennan, Jr. et al.
4,277,837 A	7/1981	Stuckert	5,159,317 A	10/1992	Brav
4,354,181 A	10/1982	Spletzer	5,162,776 A	11/1992	Bushnell et al.
4,396,910 A	8/1983	Enemark et al.	5,177,342 A	1/1993	Adams
4,396,915 A	8/1983	Farnsworth et al.	5,189,287 A	2/1993	Parienti
4,417,450 A	11/1983	Morgan, Jr. et al.	5,191,192 A	3/1993	Takahira et al.
4,436,957 A	3/1984	Mazza	5,191,326 A	3/1993	Montgomery
4,446,454 A	5/1984	Pyle	5,193,111 A	3/1993	Matty et al.
4,454,414 A	6/1984	Benton	5,195,018 A	3/1993	Kwon et al.
4,468,656 A	8/1984	Clifford et al.	5,197,095 A	3/1993	Bonnet et al.
4,488,152 A	12/1984	Arnason et al.	5,200,735 A	4/1993	Hines
4,495,496 A	1/1985	Miller, III	5,204,670 A	4/1993	Stinton
4,551,719 A	11/1985	Carlin et al.	5,212,645 A	5/1993	Wildes et al.
4,611,198 A	9/1986	Levinson et al.	5,216,502 A	6/1993	Katz
4,621,263 A	11/1986	Takenaka et al.	5,221,838 A	6/1993	Gutman et al.
4,630,035 A	12/1986	Stahl et al.	5,223,844 A	6/1993	Mansell et al.
4,631,357 A	12/1986	Grunig	5,231,658 A	7/1993	Eftechiou
4,670,739 A	6/1987	Kelly, Jr.	5,235,630 A	8/1993	Moody et al.
4,707,852 A	11/1987	Jahr et al.	5,239,575 A	8/1993	White et al.
4,731,810 A	3/1988	Watkins	5,241,410 A	8/1993	Streck et al.
4,742,296 A	5/1988	Petr et al.	5,243,338 A	9/1993	Brennan, Jr. et al.
4,757,185 A	7/1988	Onishi	5,245,633 A	9/1993	Schwartz et al.
4,800,543 A	1/1989	Lyndon-James et al.	5,252,967 A	10/1993	Brennan et al.
4,825,457 A	4/1989	Lebowitz	5,253,167 A	10/1993	Yoshida et al.
4,829,561 A	5/1989	Matheny	5,265,150 A	11/1993	Helmkamp et al.
4,849,815 A	7/1989	Streck	5,265,162 A	11/1993	Bush et al.
4,851,654 A	7/1989	Nitta	5,266,782 A	11/1993	Alanara et al.
4,856,046 A	8/1989	Steck et al.	5,272,747 A	12/1993	Meads
4,857,912 A	8/1989	Everett, Jr. et al.	5,282,204 A	1/1994	Shpancer et al.
4,875,231 A	10/1989	Hara et al.	5,282,250 A	1/1994	Dent et al.
4,884,132 A	11/1989	Morris et al.	5,289,165 A	2/1994	Belin
4,897,644 A	1/1990	Hirano	5,295,154 A	3/1994	Meier et al.
4,906,828 A	3/1990	Halpern	5,305,370 A	4/1994	Kearns et al.
4,908,769 A	3/1990	Vaughan et al.	5,315,645 A	5/1994	Matheny
4,918,690 A	4/1990	Markkula, Jr. et al.	5,317,309 A	5/1994	Vercellotti et al.
4,918,995 A	4/1990	Pearman et al.	5,319,364 A	6/1994	Waraksa et al.
4,928,299 A	5/1990	Tansky et al.	5,319,698 A	6/1994	Glidewell et al.
4,940,976 A	7/1990	Gastouniotis et al.	5,319,711 A	6/1994	Servi
4,949,077 A	8/1990	Mbuthia	5,323,384 A	6/1994	Norwood et al.
4,952,928 A	8/1990	Carroll et al.	5,325,429 A	6/1994	Kurgan
4,962,496 A	10/1990	Vercellotti et al.	5,331,318 A	7/1994	Montgomery
4,967,366 A	10/1990	Kaehler	5,334,974 A	8/1994	Simms et al.
4,968,970 A	11/1990	LaPorte	5,343,493 A	8/1994	Karimullah
4,968,978 A	11/1990	Stolarczyk	5,345,231 A	9/1994	Koo et al.
4,972,504 A	11/1990	Daniel, Jr. et al.	5,347,263 A	9/1994	Carroll et al.
4,973,957 A	11/1990	Shimizu et al.	5,354,974 A	10/1994	Eisenberg
4,973,970 A	11/1990	Reezer	5,355,513 A	10/1994	Clarke et al.
4,977,612 A	12/1990	Wilson	5,365,217 A	11/1994	Toner
4,980,907 A	12/1990	Raith et al.	5,371,736 A	12/1994	Evan
4,989,230 A	1/1991	Gillig et al.	5,382,778 A	1/1995	Takahira et al.
4,991,008 A	2/1991	Nama	5,383,134 A	1/1995	Wrzesinski
4,998,095 A	3/1991	Shields	5,406,619 A	4/1995	Akhteruzzman et al.
4,999,607 A	3/1991	Evans	5,412,192 A	5/1995	Hoss
5,032,833 A	7/1991	Laporte	5,412,760 A	5/1995	Peitz
			5,416,475 A	5/1995	Tolbert et al.
			5,416,725 A	5/1995	Pacheco et al.

US 7,295,128 B2

Page 3

5,418,812 A	5/1995	Reyes et al.	5,659,303 A	8/1997	Adair, Jr.
5,424,708 A	6/1995	Ballesty et al.	5,668,876 A	9/1997	Falk et al.
5,432,507 A	7/1995	Mussino et al.	5,673,252 A	9/1997	Johnson et al.
5,438,329 A	8/1995	Gastouniotis et al.	5,673,304 A	9/1997	Connor et al.
5,439,414 A	8/1995	Jacob	5,673,305 A	9/1997	Ross
5,442,553 A	8/1995	Parrillo	5,682,139 A	10/1997	Pradeep et al.
5,445,287 A	8/1995	Center et al.	5,682,476 A	10/1997	Tapperson et al.
5,451,929 A	9/1995	Adelman et al.	5,689,229 A	11/1997	Chaco et al.
5,451,938 A	9/1995	Brennan, Jr.	5,699,328 A	12/1997	Ishizaki et al.
5,452,344 A	9/1995	Larson	5,701,002 A	12/1997	Oishi et al.
5,465,401 A	11/1995	Thompson	5,704,046 A	12/1997	Hogan
5,467,074 A	11/1995	Pedtke	5,704,517 A	1/1998	Lancaster, Jr.
5,467,082 A	11/1995	Sanderson	5,706,191 A	1/1998	Bassett et al.
5,467,345 A	11/1995	Cutler et al.	5,706,976 A	1/1998	Purkey
5,468,948 A	11/1995	Koenck et al.	5,708,223 A	1/1998	Wyss
5,471,201 A	11/1995	Cerami et al.	5,708,655 A	1/1998	Toth
5,473,322 A	12/1995	Carney	5,712,619 A	1/1998	Simkin
5,475,689 A	12/1995	Kay et al.	5,712,980 A	1/1998	Beeler et al.
5,481,259 A	1/1996	Bane	5,714,931 A	2/1998	Petite et al.
5,481,532 A	1/1996	Hassan et al.	5,717,718 A	2/1998	Rowsell et al.
5,484,997 A	1/1996	Haynes	5,726,634 A	3/1998	Hess et al.
5,493,273 A	2/1996	Smurlo et al.	5,726,984 A	3/1998	Kubler et al.
5,493,287 A	2/1996	Bane	5,732,074 A	3/1998	Spaur et al.
5,506,837 A	4/1996	Sollner et al.	5,732,078 A	3/1998	Arango
5,509,073 A	4/1996	Monnin	5,736,965 A	4/1998	Mosebrook et al.
5,513,244 A	4/1996	Joao et al.	5,740,232 A	4/1998	Pailles et al.
5,515,419 A	5/1996	Sheffer	5,742,509 A	4/1998	Goldberg et al.
5,517,188 A	5/1996	Carroll et al.	5,745,849 A	4/1998	Britton
5,522,089 A	5/1996	Kikinis et al.	5,748,104 A	5/1998	Argyroudis et al.
5,528,215 A	6/1996	Siu et al.	5,748,619 A	5/1998	Meier
5,539,825 A	7/1996	Akiyama et al.	5,754,111 A	5/1998	Garcia
5,541,938 A	7/1996	Di Zenzo et al.	5,754,227 A	5/1998	Fukuoka
5,542,100 A	7/1996	Hatakeyama	5,757,783 A	5/1998	Eng et al.
5,544,036 A	8/1996	Brown, Jr. et al.	5,757,788 A	5/1998	Tatsumi et al.
5,544,784 A	8/1996	Malaspina	5,761,083 A	6/1998	Brown, Jr. et al.
5,548,632 A	8/1996	Walsh et al.	5,764,742 A	6/1998	Howard et al.
5,550,358 A	8/1996	Tait et al.	5,771,274 A	6/1998	Harris
5,550,359 A	8/1996	Bennett	5,774,052 A	6/1998	Hamm et al.
5,550,535 A	8/1996	Park	5,781,143 A	7/1998	Rossin
5,553,094 A	9/1996	Johnson et al.	5,790,644 A	8/1998	Kikinis
5,555,258 A	9/1996	Snelling et al.	5,790,662 A	8/1998	Valerij et al.
5,555,286 A	9/1996	Tendler	5,790,938 A	8/1998	Talarino
5,562,537 A	10/1996	Zver et al.	5,796,727 A	8/1998	Harrison et al.
5,565,857 A	10/1996	Lee	5,798,964 A	8/1998	Shimizu et al.
5,568,535 A	10/1996	Sheffer et al.	5,801,643 A	9/1998	Williams et al.
5,572,438 A	11/1996	Ehlers et al.	5,815,505 A	9/1998	Mills
5,573,181 A	11/1996	Ahmed	5,818,822 A	10/1998	Thomas et al.
5,574,111 A	11/1996	Brichta et al.	5,822,273 A	10/1998	Bary et al.
5,583,850 A	12/1996	Snodgrass et al.	5,822,544 A	10/1998	Chaco et al.
5,587,705 A	12/1996	Morris	5,826,195 A	10/1998	Westerlage et al.
5,589,878 A	12/1996	Cortjens et al.	5,828,044 A	10/1998	Jun et al.
5,590,038 A	12/1996	Pitroda	5,832,057 A	11/1998	Furman
5,590,179 A	12/1996	Shincovich et al.	5,838,223 A	11/1998	Gallant et al.
5,592,491 A	1/1997	Dinks	5,838,237 A	11/1998	Revell et al.
5,594,431 A	1/1997	Sheppard et al.	5,838,812 A	11/1998	Pare, Jr. et al.
5,602,843 A	2/1997	Gray	5,841,118 A	11/1998	East et al.
5,604,414 A	2/1997	Milligan et al.	5,841,764 A	11/1998	Roderique et al.
5,604,869 A	2/1997	Mincher et al.	5,842,976 A	12/1998	Williamson
5,606,361 A	2/1997	Davidsohn et al.	5,844,808 A	12/1998	Konsmo et al.
5,608,786 A	3/1997	Gordon	5,845,230 A	12/1998	Lamberson
5,613,620 A	3/1997	Center et al.	5,852,658 A	12/1998	Knight et al.
5,615,277 A	3/1997	Hoffman	5,854,994 A	12/1998	Canada et al.
5,619,192 A	4/1997	Ayala	5,862,201 A	1/1999	Sands
5,625,410 A	4/1997	Washino et al.	5,864,772 A	1/1999	Alvarado et al.
5,628,050 A	5/1997	McGraw et al.	5,873,043 A	2/1999	Comer
5,629,687 A	5/1997	Sutton et al.	5,874,903 A	2/1999	Shuey et al.
5,629,875 A	5/1997	Adair, Jr.	5,880,677 A	3/1999	Lestician
5,630,209 A	5/1997	Wizgall et al.	5,884,184 A	3/1999	Sheffer
5,631,554 A	5/1997	Briese et al.	5,884,271 A	3/1999	Pitroda
5,644,294 A	7/1997	Ness	5,886,333 A	3/1999	Miyake
5,655,219 A	8/1997	Jusa et al.	5,889,468 A	3/1999	Banga
5,657,389 A	8/1997	Houvener	5,892,690 A	4/1999	Boatman et al.
5,659,300 A	8/1997	Dresselhuys et al.	5,892,758 A	4/1999	Argyroudis

US 7,295,128 B2

Page 4

5,892,924 A	4/1999	Lyon et al.	6,121,885 A	9/2000	Masone et al.
5,896,097 A	4/1999	Cardozo	6,124,806 A	9/2000	Cunningham et al.
5,897,607 A	4/1999	Jenney et al.	6,127,917 A	10/2000	Tuttle
5,898,369 A	4/1999	Godwin	6,128,551 A	10/2000	Davis et al.
5,905,438 A	5/1999	Weiss et al.	6,130,622 A	10/2000	Hussey et al.
5,907,291 A	5/1999	Chen et al.	6,133,850 A	10/2000	Moore
5,907,491 A	5/1999	Canada et al.	6,137,423 A	10/2000	Glorioso et al.
5,907,540 A	5/1999	Hayashi	6,140,975 A	10/2000	Cohen
5,907,807 A	5/1999	Chavez, Jr. et al.	6,141,347 A	10/2000	Shaughnessy et al.
5,914,672 A	6/1999	Glorioso et al.	6,150,936 A	11/2000	Addy
5,914,673 A	6/1999	Jennings et al.	6,150,955 A	11/2000	Tracy et al.
5,917,405 A	6/1999	Joao	6,157,464 A	12/2000	Bloomfield et al.
5,917,629 A	6/1999	Hortensius et al.	6,157,824 A	12/2000	Bailey
5,923,269 A	7/1999	Shuey et al.	6,163,276 A	12/2000	Irving et al.
5,926,103 A	7/1999	Petite	6,172,616 B1	1/2001	Johnson et al.
5,926,529 A	7/1999	Hache et al.	6,174,205 B1	1/2001	Madsen et al.
5,926,531 A	7/1999	Petite	6,175,922 B1	1/2001	Wang
5,933,073 A	8/1999	Shuey	6,177,883 B1	1/2001	Jennetti et al.
5,941,363 A	8/1999	Partyka et al.	6,181,255 B1	1/2001	Crimmins et al.
5,941,955 A	8/1999	Wilby et al.	6,181,284 B1	1/2001	Madsen et al.
5,948,040 A	9/1999	DeLorme et al.	6,181,981 B1	1/2001	Varga et al.
5,949,779 A	9/1999	Mostafa et al.	6,188,354 B1	2/2001	Soliman et al.
5,949,799 A	9/1999	Grivna et al.	6,192,390 B1	2/2001	Berger et al.
5,953,371 A	9/1999	Roswell et al.	6,198,390 B1	3/2001	Schlager et al.
5,955,718 A	9/1999	Levasseur et al.	6,199,068 B1	3/2001	Carpenter
5,960,074 A	9/1999	Clark	6,208,266 B1	3/2001	Lyons et al.
5,963,146 A	10/1999	Johnson et al.	6,215,404 B1	4/2001	Morales
5,963,452 A	10/1999	Etoh et al.	6,218,953 B1	4/2001	Petite
5,963,650 A	10/1999	Simionescu et al.	6,218,983 B1	4/2001	Kerry et al.
5,969,608 A	10/1999	Sojdehei et al.	6,219,409 B1	4/2001	Smith et al.
5,973,756 A	10/1999	Erlin	6,229,439 B1	5/2001	Tice
5,978,364 A	11/1999	Melnik	6,233,327 B1	5/2001	Petite
5,978,371 A	11/1999	Mason, Jr. et al.	6,234,111 B1	5/2001	Ulman et al.
5,986,574 A	11/1999	Colton	6,236,332 B1	5/2001	Conkright et al.
5,987,421 A	11/1999	Chuang	6,243,010 B1	6/2001	Addy et al.
5,991,639 A	11/1999	Rautiola et al.	6,246,677 B1	6/2001	Nap et al.
5,994,892 A	11/1999	Turino et al.	6,249,516 B1	6/2001	Brownrigg et al.
5,995,592 A	11/1999	Shirai et al.	6,259,369 B1	7/2001	Monico
5,995,593 A	11/1999	Cho	6,286,756 B1	9/2001	Stinson et al.
5,997,170 A	12/1999	Brodbeck	6,288,634 B1	9/2001	Weiss et al.
5,999,094 A	12/1999	Nilssen	6,288,641 B1	9/2001	Carsais
6,005,759 A	12/1999	Hart et al.	6,295,291 B1	9/2001	Larkins
6,005,963 A	12/1999	Bolle et al.	6,301,514 B1	10/2001	Canada et al.
6,021,664 A	2/2000	Granato et al.	6,305,602 B1	10/2001	Grabowski et al.
6,023,223 A	2/2000	Baxter, Jr.	6,308,111 B1	10/2001	Koga
6,028,522 A	2/2000	Petite	6,311,167 B1	10/2001	Davis et al.
6,028,857 A	2/2000	Poor	6,314,169 B1	11/2001	Schelberg, Jr. et al.
6,031,455 A	2/2000	Grube et al.	6,317,029 B1	11/2001	Fleeter
6,032,197 A	2/2000	Birdwell et al.	6,334,117 B1	12/2001	Covert et al.
6,035,266 A	3/2000	Williams et al.	6,351,223 B1	2/2002	DeWeerd et al.
6,036,086 A	3/2000	Sizer, II et al.	6,356,205 B1	3/2002	Salvo et al.
6,038,491 A	3/2000	McGarry et al.	6,357,034 B1	3/2002	Muller et al.
6,044,062 A	3/2000	Brownrigg et al.	6,362,745 B1	3/2002	Davis
6,054,920 A	4/2000	Smith et al.	6,363,057 B1	3/2002	Ardalan et al.
6,060,994 A	5/2000	Chen	6,366,217 B1	4/2002	Cunningham et al.
6,061,604 A	5/2000	Russ et al.	6,369,769 B1	4/2002	Nap et al.
6,064,318 A	5/2000	Kirchner, III et al.	6,370,489 B1	4/2002	Williams et al.
6,067,017 A	5/2000	Stewart et al.	6,373,399 B1	4/2002	Johnson et al.
6,067,030 A	5/2000	Burnett et al.	6,380,851 B1	4/2002	Gilbert et al.
6,069,886 A	5/2000	Ayerst et al.	6,384,722 B1	5/2002	Williams
6,073,169 A	6/2000	Shuey et al.	6,393,341 B1	5/2002	Lawrence et al.
6,073,266 A	6/2000	Ahmed et al.	6,393,381 B1	5/2002	Williams et al.
6,073,840 A	6/2000	Marion	6,393,382 B1	5/2002	Williams et al.
6,075,451 A	6/2000	Lebowitz et al.	6,396,839 B1	5/2002	Ardalan et al.
6,087,957 A	7/2000	Gray	6,400,819 B1	6/2002	Nakano et al.
6,088,659 A	7/2000	Kelley et al.	6,401,081 B1	6/2002	Montgomery et al.
6,094,622 A	7/2000	Hubbard et al.	6,411,889 B1	6/2002	Mizunuma et al.
6,100,817 A	8/2000	Mason, Jr. et al.	6,415,245 B2	7/2002	Williams et al.
6,101,427 A	8/2000	Yang	6,422,464 B1	7/2002	Terranova
6,101,445 A	8/2000	Alvarado et al.	6,424,270 B1	7/2002	Ali
6,112,983 A	9/2000	D'Anniballe et al.	6,424,931 B1	7/2002	Sigmar et al.
6,119,076 A	9/2000	Williams et al.	6,430,268 B1	8/2002	Petite
6,121,593 A	9/2000	Mansbery et al.	6,431,439 B1	8/2002	Suer et al.

US 7,295,128 B2

Page 5

6,437,692	B1	8/2002	Petite et al.	
6,438,575	B1	8/2002	Khan et al.	
6,445,291	B2	9/2002	Addy et al.	
6,456,960	B1	9/2002	Williams et al.	
6,457,038	B1	9/2002	Defosse	
6,462,644	B1	10/2002	Howell et al.	
6,462,672	B1	10/2002	Besson	
6,477,558	B1	11/2002	Irving et al.	
6,483,290	B1	11/2002	Hemminger et al.	
6,484,939	B1	11/2002	Blaeuer	
6,489,884	B1	12/2002	Lamberson et al.	
6,491,828	B1	12/2002	Sivavec et al.	
6,492,910	B1	12/2002	Ragle et al.	
6,504,357	B1	1/2003	Hemminger et al.	
6,507,794	B1	1/2003	Hubbard et al.	
6,509,722	B2	1/2003	Lopata	
6,519,568	B1	2/2003	Harvey et al.	
6,538,577	B1	3/2003	Ehrke et al.	
6,542,076	B1	4/2003	Joao	
6,542,077	B2	4/2003	Joao	
6,543,690	B2	4/2003	Leydier et al.	
6,560,223	B1	5/2003	Egan et al.	
6,574,603	B1	6/2003	Dickson et al.	
6,600,726	B1	7/2003	Nevo et al.	
6,608,551	B1	8/2003	Anderson et al.	
6,618,578	B1	9/2003	Petite	
6,618,709	B1	9/2003	Sneeringer	
6,628,764	B1	9/2003	Petite	
6,628,965	B1	9/2003	LaRosa et al.	
6,653,945	B2	11/2003	Johnson et al.	
6,671,586	B2	12/2003	Davis et al.	
6,674,403	B2	1/2004	Gray et al.	
6,678,255	B1	1/2004	Kuriyan	
6,678,285	B1	1/2004	Garg	
6,731,201	B1	5/2004	Bailey et al.	
6,735,630	B1	5/2004	Gelvin et al.	
6,747,557	B1	6/2004	Petite et al.	
6,771,981	B1	8/2004	Zalewski et al.	
6,891,838	B1	5/2005	Petite	
6,914,533	B2*	7/2005	Petite 340/628	
6,914,893	B2	7/2005	Petite	
6,959,550	B2	11/2005	Freeman et al.	
2001/0002210	A1	5/2001	Petite	
2001/0003479	A1	6/2001	Fujiwara	
2001/0021646	A1	9/2001	Antonucci et al.	
2001/0024163	A1	9/2001	Petite	
2001/0034223	A1	10/2001	Rieser et al.	
2001/0038343	A1	11/2001	Meyer et al.	
2002/0002444	A1	1/2002	Williams et al.	
2002/0013679	A1	1/2002	Petite	
2002/1112323		1/2002	Petite	
2002/0019725	A1	2/2002	Petite	
2002/0027504	A1	3/2002	Petite	
2002/0031101	A1	3/2002	Petite	
2002/0032746	A1	3/2002	Lazaridis	
2002/0072348	A1	6/2002	Wheeler et al.	
2002/0089428	A1	7/2002	Walden et al.	
2002/0095399	A1	7/2002	Devine et al.	
2002/0098858	A1	7/2002	Struhsaker	
2002/0109607	A1	8/2002	Cumeralto et al.	
2002/0158774	A1	10/2002	Johnson et al.	
2002/0163442	A1	11/2002	Fischer	
2002/0169643	A1	11/2002	Petite	
2002/0193144	A1	12/2002	Belski et al.	
2003/0001754	A1	1/2003	Johnson et al.	
2003/0028632	A1	2/2003	Davis	
2003/0030926	A1	2/2003	Aguren et al.	
2003/0034900	A1	2/2003	Han	
2003/0036822	A1	2/2003	Davis et al.	
2003/0046377	A1	3/2003	Daum et al.	
2003/0058818	A1	3/2003	Wilker et al.	
2003/0069002	A1	4/2003	Hunter et al.	
2003/0078029	A1	4/2003	Petite	

2003/0093484	A1	5/2003	Petite
2003/0133473	A1	7/2003	Manis et al.
2003/0169710	A1	9/2003	Fan et al.
2003/0210638	A1	11/2003	Yoo
2004/0053639	A1	3/2004	Petite
2004/0183687	A1	9/2004	Petite
2005/0190055	A1	9/2005	Petite
2005/0195768	A1	9/2005	Petite
2005/0195775	A1	9/2005	Petite

FOREIGN PATENT DOCUMENTS

DE	WO03/007264	1/2003
EP	0718954	6/1996
EP	07144	2/1998
EP	1096454	5/2001
FR	2817110	5/2002
FR	WO 02/052521	7/2002
FR	WO02/052521	7/2002
GB	2229302	9/1990
GB	2247761	3/1992
GB	2262683	6/1993
GB	2297663	8/1996
GB	2310779	9/1997
GB	2326002	12/1998
GB	2336272	10/1999
GB	2352004	1/2001
GB	2352590	1/2001
JP	60261288	12/1985
JP	01255100	10/1989
JP	11353573	12/1999
JP	200113590	4/2000
JP	2001063425	3/2001
JP	2001088401	4/2001
JP	2001309069	11/2001
JP	2001319284	11/2001
JP	2001357483	12/2001
JP	2002007672	1/2002
JP	2002007826	1/2002
JP	2002085354	3/2002
JP	2002171354	6/2002
KR	2001025431	4/2001
NO	03/021877	3/2003
NO	WO 03/021877	3/2003
WO	WO 90/13197	11/1990
WO	WO 98/00056	1/1998
WO	WO 98/37528	8/1998
WO	WO 99/13426	3/1999
WO	200023956 A1	4/2000
WO	WO 01/15114	8/2000
WO	WO 01/24109	4/2001
WO	WO 02/08725	1/2002
WO	WO 02/08866	1/2002
WO	WO 02/052521	7/2002
WO	WO 03/007264	1/2003
WO	WO 03/021877	3/2003

OTHER PUBLICATIONS

Khan, Robert E., "The Organization of Computer resources into Packet Radio Network," IEEE, Jan. 1977, Vol. Com-25 No. 1, pp. 169-178.

Westcott, Jill A., "Issues in Distributed Routing for Mobile Packet Radio Network," IEEE 1982, pp. 233-238.

Khan, Robert E., "The Organization of Computer Resources into a Packet Radio network," IEEE Transactions on Communications, Jan. 1977, Vol. Com-25 No. 1, pp. 169-178.

Westcott, Jill A., "Issues in Distributed Routing for Mobile Packet Radio Network," IEEE 1982, pp. 233-238.

Westcott, Jil et al., "A Distributed Routing Design For A Broadcast Environment", IEEE 1982, pp. 10.4.0-10.4.5.

Kahn, Robert E. et al., "Advances In Packet Radio Technology", IEEE Nov. 1978, vol. 66, No. 11, pp. 1468-1496.

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