



US008359007B2

(12) **United States Patent**
White et al.

(10) **Patent No.:** **US 8,359,007 B2**
(45) **Date of Patent:** ***Jan. 22, 2013**

(54) **SYSTEM AND METHOD FOR COMMUNICATING MEDIA CENTER**

(75) Inventors: **Russell W. White**, Austin, TX (US);
Kevin R. Imes, Austin, TX (US)

(73) Assignee: **Affinity Labs of Texas, LLC**, Austin, TX (US)

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

This patent is subject to a terminal disclaimer.

(21) Appl. No.: **13/052,559**

(22) Filed: **Mar. 21, 2011**

(65) **Prior Publication Data**

US 2011/0312386 A1 Dec. 22, 2011

Related U.S. Application Data

(63) Continuation of application No. 12/495,190, filed on Jun. 30, 2009, now Pat. No. 7,953,390, which is a continuation of application No. 12/015,320, filed on Jan. 16, 2008, now Pat. No. 7,778,595, which is a continuation of application No. 10/947,755, filed on Sep. 23, 2004, now Pat. No. 7,324,833, which is a continuation of application No. 09/537,812, filed on Mar. 28, 2000, now Pat. No. 7,187,947.

(51) **Int. Cl.**

H04M 3/16 (2006.01)
H04H 40/00 (2008.01)

(52) **U.S. Cl.** **455/410**; 455/3.06; 455/418

(58) **Field of Classification Search** None
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

3,582,926 A 6/1971 Hassan
4,291,749 A 9/1981 Ootsuka et al.
4,314,232 A 2/1982 Tsunoda

4,337,821 A 7/1982 Saito
4,401,848 A 8/1983 Tsunoda
4,407,564 A 10/1983 Ellis
4,419,730 A 12/1983 Ito et al.
4,441,405 A 4/1984 Takeuchi
4,481,584 A 11/1984 Holland
4,536,739 A 8/1985 Nobuta
4,570,217 A 2/1986 Allen et al.
4,582,389 A 4/1986 Wood et al.
4,636,782 A 1/1987 Nakamura et al.
4,716,458 A 12/1987 Heitzman et al.
4,731,769 A 3/1988 Schaefer
4,740,779 A 4/1988 Cleary et al.
4,740,780 A 4/1988 Brown et al.
4,752,824 A 6/1988 Moore
4,795,223 A 1/1989 Moss
4,802,492 A 2/1989 Grunstein
4,807,292 A 2/1989 Sorscher 381/86
4,809,177 A 2/1989 Windle et al.

(Continued)

FOREIGN PATENT DOCUMENTS

CA 2225910 12/1997
CN 1218256 A 6/1999

(Continued)

OTHER PUBLICATIONS

Multi Technology Equipment, "Neo Car Jukebox, Installation and Instruction Manual," Prior to Mar. 28, 2000, 29 pages.

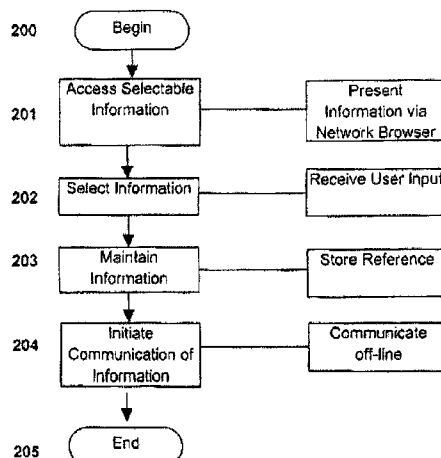
(Continued)

Primary Examiner — Erika A Washington

(57) **ABSTRACT**

A method for communicating media content is disclosed. The method includes receiving in a server a request for a listing of network addresses associated with a playlist for available content, and sending a message having network addresses for different portions of the content. The network addresses allow a requesting device to use one transmission rate for a first part of the content and a different transmission rate for a second part of the content.

20 Claims, 9 Drawing Sheets



U.S. PATENT DOCUMENTS					
			5,539,645	A	7/1996 Mandhyan et al.
4,812,843	A	3/1989 Champion, III et al.	5,539,658	A	7/1996 McCullough
4,817,203	A	3/1989 Tsurumoto et al.	5,539,869	A	7/1996 Spoto et al.
4,818,048	A	4/1989 Moss	5,543,789	A	8/1996 Behr et al.
4,827,520	A	5/1989 Zeinstra	5,547,125	A	8/1996 Hennessee et al.
4,837,551	A	6/1989 Iino	5,553,661	A	9/1996 Beyerlein et al.
4,876,594	A	10/1989 Schiffman	5,555,172	A	9/1996 Potter
4,905,272	A	2/1990 Van de Mortel et al.	5,555,286	A	9/1996 Tendler
4,914,705	A	4/1990 Nigawara	5,555,502	A	9/1996 Opel
4,977,509	A	12/1990 Pitchford et al.	5,557,541	A	9/1996 Schulhof et al.
4,988,976	A	1/1991 Lu	5,568,390	A	10/1996 Hirota et al.
4,995,258	A	2/1991 Frank	5,572,442	A	11/1996 Schulhof
4,996,959	A	3/1991 Akimoto	5,576,724	A	11/1996 Fukatsu et al.
4,999,622	A	3/1991 Amano et al.	5,586,090	A	12/1996 Otte
5,006,829	A	4/1991 Miyamoto et al.	5,587,560	A	12/1996 Crooks et al.
5,051,735	A	9/1991 Furukawa	5,589,090	A	12/1996 Song
5,070,323	A	12/1991 Iino et al.	5,594,709	A	1/1997 Nagano et al.
5,124,915	A	6/1992 Krenzel	5,594,779	A	1/1997 Goodman 455/3.04
5,164,904	A	11/1992 Sumner	5,596,319	A	1/1997 Spry
5,179,385	A	1/1993 O'Loughlin et al.	5,604,676	A	2/1997 Penzias
5,198,797	A	3/1993 Daidoji	5,614,895	A	3/1997 Ohomori et al.
5,203,499	A	4/1993 Knittel	5,616,876	A	4/1997 Cluts
5,214,413	A	5/1993 Okabayashi et al.	5,619,412	A	4/1997 Hapka
5,214,707	A	5/1993 Fujimoto et al.	5,621,252	A	4/1997 Bucknam
5,214,793	A	5/1993 Conway et al.	5,625,608	A	4/1997 Grewe et al.
5,239,700	A	8/1993 Guenther et al.	5,625,668	A	4/1997 Loomis et al.
5,257,190	A	10/1993 Crane	5,627,547	A	5/1997 Ramaswamy et al.
5,270,689	A	12/1993 Hermann	5,638,305	A	6/1997 Kobayashi et al.
5,274,560	A	12/1993 LaRue	5,639,305	A	6/1997 Brown et al.
5,278,532	A	1/1994 Hegg et al.	5,646,608	A	7/1997 Shintani
5,293,115	A	3/1994 Swanson	5,650,929	A	7/1997 Potter et al.
5,299,132	A	3/1994 Wortham	5,653,386	A	8/1997 Hennessee et al.
5,307,326	A	4/1994 Osawa	5,654,715	A	8/1997 Hayashikura et al.
5,327,558	A	7/1994 Burke et al.	5,657,221	A	8/1997 Warman et al.
5,335,743	A	8/1994 Gillbrand et al.	5,661,652	A	8/1997 Sprague et al.
5,341,350	A	8/1994 Frank	5,664,228	A	9/1997 Mital
5,345,817	A	9/1994 Grenn et al.	5,666,102	A	9/1997 Lahiff
5,351,041	A	9/1994 Ikata et al.	5,670,953	A	9/1997 Satoh et al.
5,361,165	A	11/1994 Stringfellow et al.	5,677,837	A	10/1997 Reynolds
5,363,355	A	11/1994 Takagi	5,682,525	A	10/1997 Bouve et al.
5,371,510	A	12/1994 Miyauchi et al.	5,684,490	A	11/1997 Young et al.
5,388,248	A	2/1995 Robinson et al.	5,691,695	A	11/1997 Lahiff
5,400,045	A	3/1995 Aoki	5,694,120	A	12/1997 Indekeu et al. 340/7.23
5,400,246	A	3/1995 Wilson et al.	5,699,056	A	12/1997 Yoshida
5,404,443	A	4/1995 Hirata	5,699,255	A	12/1997 Ellis et al.
5,408,686	A	4/1995 Mankovitz	5,702,165	A	12/1997 Koibuchi
5,410,326	A	4/1995 Goldstein	5,712,640	A	1/1998 Andou et al.
5,414,439	A	5/1995 Groves et al.	5,715,474	A	2/1998 Burke et al.
5,416,318	A	5/1995 Hegyi	5,721,827	A	2/1998 Logan et al.
5,418,962	A	5/1995 Bodin et al.	5,724,407	A	3/1998 Bruno et al.
5,420,573	A	5/1995 Tanaka et al.	5,732,216	A	3/1998 Logan et al.
5,422,565	A	6/1995 Swanson	5,734,973	A	3/1998 Honda
5,432,904	A	7/1995 Wong	5,737,706	A	4/1998 Seazholtz
5,440,428	A	8/1995 Hegg et al.	5,742,226	A	4/1998 Szabo et al.
5,442,553	A	8/1995 Parrillo	5,742,893	A	4/1998 Frank
5,442,557	A	8/1995 Kaneko	5,752,754	A	5/1998 Amitani et al.
5,450,321	A	9/1995 Crane	5,754,774	A	5/1998 Bittinger et al.
5,450,471	A	9/1995 Hanawa et al.	5,754,775	A	5/1998 Adamson et al.
5,450,613	A	9/1995 Takahara et al.	5,757,359	A	5/1998 Morimoto et al.
5,475,399	A	12/1995 Borsuk	5,758,311	A	5/1998 Tsuji et al.
5,475,835	A	12/1995 Hickey	5,760,742	A	6/1998 Branch et al.
5,479,157	A	12/1995 Suman et al.	5,772,534	A	6/1998 Dudley
5,483,632	A	1/1996 Kuwamoto et al.	5,774,070	A	6/1998 Rendon
5,486,840	A	1/1996 Borrego et al.	5,774,793	A	6/1998 Cooper et al.
5,488,357	A	1/1996 Sato et al.	5,774,827	A	6/1998 Smith, Jr. et al.
5,493,658	A	2/1996 Chiang et al.	5,777,394	A	7/1998 Arold
5,497,271	A	3/1996 Mulvanny et al.	5,790,973	A	8/1998 Blaker et al.
5,504,482	A	4/1996 Schreder	5,790,974	A	8/1998 Tognazzini
5,504,622	A	4/1996 Oikawa et al.	5,794,164	A	8/1998 Beckert et al.
5,506,595	A	4/1996 Fukano et al.	5,797,089	A	8/1998 Nguyen et al.
5,511,724	A	4/1996 Freiburger et al.	5,798,759	A	8/1998 Dahl
5,519,410	A	5/1996 Smalanskas et al.	5,806,018	A	9/1998 Smith et al.
5,523,559	A	6/1996 Swanson	5,808,566	A	9/1998 Behr et al.
5,524,051	A	6/1996 Ryan	5,812,870	A	9/1998 Kikinis et al.
5,525,977	A	6/1996 Suman	5,819,160	A	10/1998 Foladare et al.
5,528,248	A	6/1996 Steiner et al.	5,822,098	A	10/1998 Morgaine
5,528,496	A	6/1996 Brauer et al.	5,835,732	A	11/1998 Kikinis et al.

5,864,305	A	1/1999	Rosenquist	6,169,515	B1	1/2001	Mannings et al.
5,867,494	A	2/1999	Krishnaswamy et al.	6,175,782	B1	1/2001	Obradovich et al.
5,870,680	A	2/1999	Guerlin et al.	6,175,789	B1	1/2001	Beckert et al.
5,875,412	A	2/1999	Sulich et al.	6,177,950	B1	1/2001	Robb
5,878,282	A	3/1999	Mital	6,178,403	B1	1/2001	Detlef
5,889,852	A	3/1999	Rosecrans et al.	6,178,514	B1	1/2001	Wood
5,900,564	A	5/1999	Kurakake 84/477 R	6,182,006	B1	1/2001	Meek
5,908,464	A	6/1999	Kishigami et al.	6,185,491	B1	2/2001	Gray et al.
5,914,941	A	6/1999	Janky	6,185,625	B1	2/2001	Tso et al.
5,917,405	A	6/1999	Joao	6,189,057	B1	2/2001	Schwanz et al.
5,918,013	A	6/1999	Mighdoll et al.	6,192,340	B1	2/2001	Abecassis
5,919,239	A	7/1999	Fraker et al.	6,196,846	B1	3/2001	Berger et al.
5,919,246	A	7/1999	Waizmann et al.	6,199,076	B1	3/2001	Logan et al.
5,926,624	A	7/1999	Katz et al.	6,201,540	B1	3/2001	Gallup et al.
5,940,767	A	8/1999	Bourgeois et al.	6,202,008	B1	3/2001	Beckert et al.
5,953,005	A	9/1999	Liu 715/500.1	6,225,984	B1	5/2001	Crawford
5,953,506	A	9/1999	Kalra et al.	6,230,322	B1	5/2001	Saib et al. 725/40
5,953,657	A	9/1999	Ghisler	6,232,539	B1	5/2001	Looney et al. 84/609
5,956,029	A	9/1999	Okada et al.	6,233,430	B1	5/2001	Helferich
5,956,651	A	9/1999	Willkie	6,236,832	B1	5/2001	Ito 455/3.06
5,963,916	A	10/1999	Kaplan	6,236,918	B1	5/2001	Sonoda et al.
5,966,714	A	10/1999	Huang et al.	6,240,297	B1	5/2001	Jadoul
5,969,283	A	10/1999	Looney et al.	6,240,347	B1	5/2001	Everhart et al.
5,969,826	A	10/1999	Dash et al.	6,243,725	B1	6/2001	Hempleman et al.
5,974,333	A	10/1999	Chen	6,246,935	B1	6/2001	Buckley
5,978,567	A	11/1999	Rebane et al.	6,247,130	B1	6/2001	Fritsch 713/171
5,978,689	A	11/1999	Tuoriniemi et al.	6,248,946	B1	6/2001	Dwek
5,982,298	A	11/1999	Lappenbusch et al.	6,253,061	B1	6/2001	Helferich
5,987,381	A	11/1999	Oshizawa	6,255,961	B1	7/2001	Van Ryzin et al.
5,987,394	A	11/1999	Takakura et al.	6,259,892	B1	7/2001	Helferich
5,990,803	A	11/1999	Park	6,262,724	B1	7/2001	Crow et al.
5,991,640	A	11/1999	Lilja et al.	6,262,978	B1	7/2001	Bruno et al.
5,999,525	A	12/1999	Krishnaswamy et al.	6,275,231	B1	8/2001	Obradovich
5,999,877	A	12/1999	Takahashi et al.	6,278,531	B1	8/2001	Tesavis
6,006,115	A	12/1999	Wingate	6,278,676	B1	8/2001	Anderson et al.
6,006,161	A	12/1999	Katou	6,278,884	B1	8/2001	Kim
6,007,228	A	12/1999	Agarwal et al.	6,282,464	B1	8/2001	Obradovich
6,009,355	A	12/1999	Obradovich et al.	6,289,382	B1	9/2001	Bowman-Amuah
6,009,363	A	12/1999	Beckert	6,292,440	B1	9/2001	Lee 369/7
6,012,100	A	1/2000	Frailong et al.	6,292,743	B1	9/2001	Pu et al.
6,014,569	A	1/2000	Bottum 370/913	6,292,834	B1	9/2001	Ravi et al.
6,014,689	A	1/2000	Budge et al.	6,301,116	B1	10/2001	Tamura
6,018,571	A	1/2000	Langlois et al.	6,311,215	B1	10/2001	Bakshi et al.
6,023,232	A	2/2000	Eitzenberger	6,314,094	B1	11/2001	Boys 370/352
6,023,241	A	2/2000	Clapper	6,314,326	B1	11/2001	Fuchu
6,029,064	A	2/2000	Farris et al. 455/412	6,330,247	B1	12/2001	Chang
6,032,089	A	2/2000	Buckley	6,332,163	B1	12/2001	Bowman-Amuah
6,035,339	A	3/2000	Agraharam et al.	6,335,927	B1	1/2002	Elliott et al.
6,041,023	A	3/2000	Lakhansingh	6,338,044	B1	1/2002	Cook et al.
6,047,234	A	4/2000	Chervenky et al.	6,339,706	B1	1/2002	Tillgren et al. 455/419
6,047,327	A	4/2000	Tso et al.	6,339,832	B1	1/2002	Bowman-Amuah
6,055,478	A	4/2000	Heron	6,344,861	B1	2/2002	Naughton et al.
6,061,306	A	5/2000	Buchheim 369/2	6,349,223	B1	2/2002	Chen
6,072,598	A	6/2000	Tso	6,349,352	B1	2/2002	Lea
6,073,168	A	6/2000	Mighdoll et al.	6,353,637	B1	3/2002	Mansour et al.
6,084,584	A	7/2000	Nahi et al.	6,363,240	B2	3/2002	Ito
6,088,730	A	7/2000	Kato et al. 455/556	6,377,825	B1	4/2002	Kennedy et al.
6,100,884	A	8/2000	Tomita et al.	6,396,164	B1	5/2002	Barnea et al.
6,104,334	A	8/2000	Allport	6,396,769	B1	5/2002	Polany
6,114,970	A	9/2000	Kirson et al.	6,401,085	B1	6/2002	Gershman et al. 707/4
6,115,669	A	9/2000	Watanabe et al.	6,405,256	B1	6/2002	Lin et al.
6,121,282	A	9/2000	Dominianni et al.	6,407,750	B1	6/2002	Gioscia et al. 345/716
6,122,403	A	9/2000	Rhoads	6,418,138	B1	7/2002	Cerf et al. 370/352
6,128,559	A	10/2000	Saitou et al.	6,418,330	B1	7/2002	Lee
6,131,060	A	10/2000	Obradovich et al.	6,418,421	B1	7/2002	Hurtado et al.
6,133,853	A	10/2000	Obradovich et al.	6,420,975	B1	7/2002	DeLine et al. 340/815.4
6,144,358	A	11/2000	Narayanaswamy et al.	6,421,305	B1	7/2002	Gioscia et al.
6,144,848	A	11/2000	Walsh et al. 235/379	6,422,941	B1	7/2002	Thorner et al.
6,147,938	A	11/2000	Ogawa et al.	6,425,018	B1	7/2002	Kaganas et al.
6,148,261	A	11/2000	Obradovich et al.	6,434,459	B2	8/2002	Wong et al.
6,150,925	A	11/2000	Casazza	6,434,568	B1	8/2002	Bowman-Amuah
6,151,634	A	11/2000	Glaser	6,434,628	B1	8/2002	Bowman-Amuah
6,157,619	A	12/2000	Ozluturk	6,438,594	B1	8/2002	Bowman-Amuah
6,157,725	A	12/2000	Becker	6,442,748	B1	8/2002	Bowman-Amuah
6,160,551	A	12/2000	Naughton	6,446,080	B1	9/2002	Van Ryzin et al.
6,161,071	A	12/2000	Shuman et al.	6,449,541	B1	9/2002	Goldberg et al.
6,163,079	A	12/2000	Miyazaki et al.	6,453,281	B1	9/2002	Walters

6,477,580 B1	11/2002	Bowman-Amuah	6,788,528 B2	9/2004	Enners et al.	361/683
6,477,665 B1	11/2002	Bowman-Amuah	6,791,907 B2	9/2004	Berhan	
6,484,212 B1	11/2002	Markowitz et al.	6,792,086 B1	9/2004	Saylor et al.	
6,487,663 B1	11/2002	Jaisimha	6,792,263 B1	9/2004	Kite	455/412.1
6,493,429 B1	12/2002	Cannon et al.	6,792,615 B1	9/2004	Rowe et al.	
6,493,546 B2	12/2002	Patsiokas	6,804,825 B1	10/2004	White et al.	
6,496,205 B1	12/2002	White et al.	6,823,255 B2	11/2004	Ahrens et al.	
6,496,692 B1	12/2002	Shanahan	6,832,316 B1	12/2004	Sibert	
6,496,850 B1	12/2002	Bowman-Amuah	6,842,906 B1	1/2005	Bowman-Amuah	
6,501,832 B1	12/2002	Saylor et al.	6,845,398 B1	1/2005	Galensky et al.	
6,502,213 B1	12/2002	Bowman-Amuah	6,862,357 B1	3/2005	Albus et al.	
6,507,762 B1	1/2003	Amro et al.	6,888,927 B1	5/2005	Cruickshank et al.	
6,509,716 B2	1/2003	Yi	6,888,929 B1	5/2005	Saylor et al.	
6,510,210 B1	1/2003	Baughan	6,892,067 B1	5/2005	Sharma et al.	
6,510,325 B1	1/2003	Mack, II et al.	6,892,226 B1	5/2005	Tso et al.	
6,516,466 B1	2/2003	Jackson	6,901,067 B1	5/2005	Kalavade	
6,526,335 B1	2/2003	Treyz	6,904,449 B1	6/2005	Quinones	
6,529,909 B1	3/2003	Bowman-Amuah	6,907,112 B1	6/2005	Guedalia et al.	379/88.17
6,529,948 B1	3/2003	Bowman-Amuah	6,909,708 B1	6/2005	Krishnaswamy et al.	
6,539,396 B1	3/2003	Bowman-Amuah	6,915,272 B1	7/2005	Zilliacus et al.	705/26
6,549,942 B1	4/2003	Janky et al.	6,917,923 B1	7/2005	Dimenstein	
6,549,949 B1	4/2003	Bowman-Amuah	6,956,833 B1	10/2005	Yukie et al.	370/352
6,550,057 B1	4/2003	Bowman-Amuah	6,957,260 B1	10/2005	Mighdoll et al.	
6,559,773 B1	5/2003	Berry	6,963,783 B1	11/2005	Bi et al.	
6,571,282 B1	5/2003	Bowman-Amuah	6,963,784 B1	11/2005	Gibbs	
6,578,068 B1	6/2003	Bowman-Amuah	6,975,835 B1	12/2005	Lake et al.	
6,584,403 B2	6/2003	Bunn	6,978,127 B1	12/2005	Bulthuis et al.	
6,587,127 B1	7/2003	Leeke et al.	6,990,208 B1	1/2006	Lau et al.	
6,587,835 B1	7/2003	Treyz et al.	6,990,334 B1	1/2006	Ito	
6,591,085 B1	7/2003	Grady	7,013,251 B1	3/2006	Nace et al.	
6,594,723 B1	7/2003	Chapman et al.	7,020,704 B1	3/2006	Lipscomb et al.	
6,594,740 B1	7/2003	Fukuda	7,058,376 B2	6/2006	Logan et al.	
6,594,774 B1	7/2003	Chapman et al.	7,065,342 B1	6/2006	Rolf	455/412.1
6,601,192 B1	7/2003	Bowman-Amuah	7,085,710 B1	8/2006	Beckert et al.	
6,601,234 B1	7/2003	Bowman-Amuah	7,120,462 B2	10/2006	Kumar	
6,606,082 B1	8/2003	Zuberec et al.	7,123,936 B1	10/2006	Rydbeck et al.	
6,606,660 B1	8/2003	Bowman-Amuah	7,124,101 B1	10/2006	Mikurak	
6,606,744 B1	8/2003	Mikurak	7,130,807 B1	10/2006	Mikurak	
6,609,105 B2	8/2003	Van Zoest	7,139,626 B2	11/2006	Kataoka et al.	
6,615,199 B1	9/2003	Bowman-Amuah	7,145,898 B1	12/2006	Elliott	
6,615,253 B1	9/2003	Bowman-Amuah	7,149,543 B2	12/2006	Kumar, II	
6,618,039 B1	9/2003	Grant et al.	7,149,772 B1	12/2006	Kalavade	
6,622,083 B1	9/2003	Knockeart et al.	7,200,357 B2	4/2007	Janik et al.	
6,629,000 B1	9/2003	Moon et al.	7,209,943 B1	4/2007	Ching et al.	
6,629,197 B1	9/2003	Bhagal et al.	7,219,123 B1	5/2007	Fiechter et al.	
6,633,932 B1	10/2003	Bork et al.	7,321,783 B2	1/2008	Kim	
6,636,242 B2	10/2003	Bowman-Amuah	7,321,923 B1	1/2008	Rosenberg et al.	
6,639,584 B1	10/2003	Li	7,324,833 B2	1/2008	White et al.	
6,640,238 B1	10/2003	Bowman-Amuah	7,339,993 B1	3/2008	Brooks	
6,640,244 B1	10/2003	Bowman-Amuah	7,343,414 B2	3/2008	Lipscomb et al.	
6,640,249 B1	10/2003	Bowman-Amuah	7,346,687 B2	3/2008	Lipscomb et al.	
6,640,306 B1	10/2003	Tone et al.	7,376,586 B1	5/2008	Partovi et al.	
6,647,257 B2	11/2003	Owensby	7,379,541 B2	5/2008	Iggulden et al.	
6,658,247 B1	12/2003	Saito	7,437,485 B1	10/2008	Kruglikov et al.	
6,671,567 B1	12/2003	Dwyer et al.	7,440,772 B2	10/2008	White et al.	
6,671,715 B1	12/2003	Langseth et al.	7,444,353 B1	10/2008	Chen	
6,671,745 B1	12/2003	Mathur et al.	7,549,007 B1	6/2009	Smith et al.	
6,671,818 B1	12/2003	Mikurak	7,562,392 B1	7/2009	Rhoads et al.	
6,675,233 B1	1/2004	Du	7,610,597 B1	10/2009	Johnson et al.	
6,678,215 B1	1/2004	Treyz	7,711,838 B1	5/2010	Boulter	
6,681,120 B1	1/2004	Kim	7,778,595 B2	8/2010	White et al.	
6,694,200 B1	2/2004	Naim	7,945,284 B1	5/2011	Cao et al.	
6,697,470 B2	2/2004	McDonough	7,953,390 B2*	5/2011	White et al.	455/410
6,697,824 B1	2/2004	Bowman-Amuah	2001/0042107 A1	11/2001	Palm	
6,697,944 B1	2/2004	Jones et al.	2002/0010759 A1	1/2002	Hitson	
6,704,394 B1	3/2004	Kambhatla et al.	2002/0023028 A1	2/2002	Quarendon et al.	705/26
6,707,889 B1	3/2004	Saylor et al.	2002/0026442 A1	2/2002	Lipscomb et al.	
6,708,086 B2	3/2004	Richard	2002/0046084 A1	4/2002	Steele et al.	705/14
6,715,145 B1	3/2004	Bowman-Amuah	2002/0058475 A1	5/2002	Patsiokas	
6,721,489 B1	4/2004	Benyamin et al.	2002/0060701 A1	5/2002	Naughton et al.	
6,721,710 B1	4/2004	Lueck et al.	2002/0072818 A1	6/2002	Moon et al.	
6,725,022 B1	4/2004	Clayton et al.	2002/0112078 A1	8/2002	Yach	
6,728,531 B1	4/2004	Lee	2002/0144271 A1	10/2002	Behagen et al.	
6,731,625 B1	5/2004	Eastepp et al.	2002/0164973 A1	11/2002	Janik	
6,741,980 B1	5/2004	Langseth et al.	2002/0174013 A1	11/2002	Freeman et al.	
6,742,015 B1	5/2004	Bowman-Amuah	2003/0008646 A1	1/2003	Shanahan	455/418
6,754,181 B1	6/2004	Elliott et al.	2003/0105718 A1	6/2003	Hurtado et al.	

2003/0215102	A1	11/2003	Marlowe		JP	1999-0042565	6/1999
2004/0078274	A1	4/2004	Aarnio	705/26	JP	H11-164058	6/1999
2004/0151327	A1	8/2004	Marlow		JP	11-219580	8/1999
2004/0203608	A1	10/2004	Osann, Jr.		JP	11-068685	9/1999
2004/0210765	A1	10/2004	Erickson		JP	11-242686	9/1999
2005/0010633	A1	1/2005	Shanahan	709/200	JP	H11-242686	9/1999
2005/0049002	A1	3/2005	White et al.	455/556.1	JP	11219580 A	10/1999
2005/0054379	A1	3/2005	Cao et al.	455/556.1	JP	H11-286558	10/1999
2005/0096018	A1	5/2005	White et al.	455/414.1	JP	11-317061	11/1999
2005/0143047	A1	6/2005	Kwon et al.		JP	H11-317061	11/1999
2005/0282600	A1	12/2005	Paradice		JP	2000-0001465	1/2000
2006/0039263	A1	2/2006	Trotabas		JP	2000-66974	3/2000
2006/0080741	A1	4/2006	Nair		JP	2001-0009302	2/2001
2006/0094349	A1	5/2006	Slesak et al.		JP	2001-0028354	4/2001
2006/0105804	A1	5/2006	Kumar		JP	2001-128280	5/2001
2006/0206493	A1	9/2006	Lipscomb et al.		JP	10-356742	10/2002
2007/0150963	A1	6/2007	Lee et al.		JP	3890692	12/2006
					JP	2007-207257	8/2007

FOREIGN PATENT DOCUMENTS

CN	1218258	A	6/1999		KR	10-1997-0016743	4/1997
DE	4431070		3/1996		KR	20-1997-0012254	5/1997
DE	19 651 308	A1	10/1996		KR	0142256	3/1998
DE	101 01 702	A1	1/2001		KR	1999-024210	3/1999
DE	102 05 641	A1	2/2002		KR	1999-0033726	6/1999
DE	44 31 070	B4	7/2004		KR	2019990022030 U	6/1999
DE	20 2004 013 65		12/2004		KR	1999-0048723	7/1999
EP	333330	A1	2/1989		KR	1999-0055970	7/1999
EP	0 569 343	A1	10/1993		KR	1999-0073234	10/1999
EP	0569243		11/1993		KR	100242563 B1	10/1999
EP	0 661 676	A1	12/1994		KR	2000-0001465	1/2000
EP	0 675 341	A1	4/1995		KR	20000036680	7/2000
EP	0675341		10/1995		KR	10-0356742	10/2002
EP	0744839		11/1996		WO	WO 94/18753	8/1994
EP	0 771 686	A2	7/1997		WO	WO 96/04724	2/1996
EP	0 898 378		2/1999		WO	WO 96/07110	3/1996
EP	0 920 016	A2	2/1999		WO	WO 97/13657	4/1997
EP	0 918 408	A2	5/1999		WO	98/19480	5/1998
EP	0 982 732	A1	1/2000		WO	WO 98/21672	5/1998
EP	0982732	A1	1/2000		WO	WO 98/19480	7/1998
EP	984584		8/2000		WO	WO 98/33102	7/1998
EP	1 148 674	A2	10/2001		WO	WO 98/47252	10/1998
FR	10-149162		6/1998		WO	WO 99/06910	2/1999
FR	3056721		12/1998		WO	WO 99/18518	4/1999
JP	59085599		5/1984		WO	WO 99/23856	5/1999
JP	63-136828		6/1988		WO	WO 99/35009	7/1999
JP	63136828		6/1988		WO	WO 99 38266	7/1999
JP	1018712		1/1989		WO	99/43136	8/1999
JP	2-301330		12/1990		WO	WO 99/28897	8/1999
JP	H4-261576		9/1992		WO	WO 99/43135	8/1999
JP	5077679		3/1993		WO	11-317061	11/1999
JP	5-294250		11/1993		WO	WO 99/12152	11/1999
JP	6-187597		7/1994		WO	WO 00/07849	2/2000
JP	6289118		10/1994		WO	00/38340	6/2000
JP	6294659		10/1994		WO	WO 00/38340	6/2000
JP	7036362		2/1995		WO	WO 00/38340	8/2000
JP	07-129695		5/1995		WO	WO 00/54187	9/2000
JP	7-146155		6/1995		WO	WO 00/54462	9/2000
JP	7-262493		10/1995		WO	WO 00/60450	10/2000
JP	7270171		10/1995		WO	WO 00/60450	10/2000
JP	H08-6875		1/1996		WO	WO 00/70523	11/2000
JP	8-79814		3/1996		WO	WO 00/79372 A1	12/2000

OTHER PUBLICATIONS

Sony Corporation, "FM/AM Compact Disc Player Operating Instructions," 1998, 132 pages.

United States Patent and Trademark Office, Office Action mailed on Oct. 20, 2011 in U.S. Appl. No. 13/117,507.

Request for Inter Partes Reexamination of U.S. Patent No. 7,187,947, filed on Nov. 13, 2009, with accompanying Claim Charts.

Request for Inter Partes Reexamination of U.S. Patent No. 7,440,772, filed on Nov. 13, 2009, with accompanying Claim Charts.

Request for Inter Partes Reexamination of U.S. Patent No. 7,324,833, filed on Nov. 13, 2009, with accompanying Claim Charts.

Request for Inter Partes Reexamination of U.S. Patent No. 7,486,926, filed on Nov. 13, 2009, with accompanying Claim Charts.

Request for Inter Partes Reexamination of U.S. Patent No. 7,634,228, filed on Feb. 3, 2010, with accompanying Claim Charts.

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.