U.S. PATENT DOCUMENTS

4,261,054	A	4/1981	Scharla-Nielsen
4,309,764	A	1/1982	Acampora et al.
4,383,315	A	5/1983	Torng
4,491,947	A	1/1985	Frank
4,495,619	A	1/1985	Acampora
4,495,648	A	1/1985	Giger
4,547,880	A	10/1985	De Vita et al.
4,675,863	A	6/1987	Paneth et al.
4,720,829	A	1/1988	Fukusawa et al.
4,756,007	A	7/1988	Qureshi et al.
4,785,450	A	11/1988	Bolgiano et al.
4,789,983	A	12/1988	Acampora et al.
4,817,089	A	3/1989	Paneth et al.
4,901,307	A	2/1990	Gilhousen et al.
4,901,319	A	2/1990	Ross
4,910,794	A	3/1990	Mahany
4,914,651	A	4/1990	Lusignan
4,931,250	A	6/1990	Greszczuk
4,939,731	A	7/1990	Reed et al.
4,991,184	A	2/1991	Hashimoto
5,003,534	A	3/1991	Gerhardt et al.
5,022,046	A	6/1991	Morrow, Jr.
5,038,399	A	8/1991	Bruckert
5,056,109	A	10/1991	Gilhousen et al.
5,093,924	A	3/1992	Toshiyuki et al.
5,101,501	A	3/1992	Gilhousen et al.
5,103,459	A	4/1992	Gilhousen et al.
5,115,429	A	5/1992	Hluchyj et al.
5,191,583	A	3/1993	Pearson et al.
5,204,876	A	4/1993	Bruckert et al.
5,235,614	A	8/1993	Bruckert et al.
5,267,261	A	11/1993	Blakeney, II et al.
5,267,262	A	11/1993	Wheatley, III
5,280,472	A	1/1994	Gilhousen et al.
5,280,537	A	1/1994	Sugiyama et al.
5,289,527	A	2/1994	Tiedemann, Jr.
5,297,192	A	3/1994	Gerszberg
5,305,308	A	4/1994	English et al.
5,317,123	A	5/1994	Ito et al.
5,373,502	A	12/1994	Turban
5,375,123	A	12/1994	Andersson et al.
5,383,219	A	1/1995	Wheatley, III et al.
5,386,589	A	1/1995	Kanai
5,396,516	A	3/1995	Padovani et al.
5,400,328	A	3/1995	Burren et al.
5,404,376	A	4/1995	Dent
5,412,687	A	5/1995	Sutton et al.
5,414,796	A	5/1995	Jacobs et al.
5,416,797	A	5/1995	Gilhousen et al.
5,425,051	A	6/1995	Mahany
5,434,860	A	7/1995	Riddle
5,442,625	A	8/1995	Gitlin et al.
5,461,639	A	10/1995	Wheatley, III et al.
5,465,388	A	11/1995	Zicker
5,469,471	A	11/1995	Wheatley, III et al.
5,485,486	A	1/1996	Gilhousen et al.
5,491,837	A	2/1996	Haartsen
5,497,395	A	3/1996	Jou et al.
5,504,773	A	4/1996	Padovani et al.
5,528,593	A	6/1996	English et al.
5,530,693	A	6/1996	Averbuch et al.
5,530,700	A	6/1996	Tran et al.
5,533,004	A	7/1996	Jasper et al.
5,535,239	A	7/1996	Padovani et al.
5,537,410	A	7/1996	Li
5,559,789	A	9/1996	Nakano et al.
5,564,080	A	10/1996	Eul et al.
5,566,175	A	10/1996	Davis
5,568,483	A	10/1996	Padovani et al.
5,577,022	A	11/1996	Padovani et al.
5,577,087	A	11/1996	Furuya
5,579,306	A	11/1996	Dent
5,594,720	A	1/1997	Papadopoulos et al.
5,594,949	A	1/1997	Andersson et al.
5,603,093	A	2/1997	Yoshimi et al.
5,604,730	A	2/1997	Tiedemann, Jr. et al.
5,612,948	A	3/1997	Fette et al.
5,621,723	A	4/1997	Walton, Jr. et al.
5,621,752	A	4/1997	Antonio et al.
5,634,195	A	5/1997	Sawyer
5,638,412	A	6/1997	Blakeney, II et al.
5,648,955	A	7/1997	Jensen et al.
5,649,290	A	7/1997	Wang et al.
5,654,979	A	8/1997	Levin et al.
5,666,649	A	9/1997	Dent
5,680,395	A	10/1997	Weaver et al.
5,682,605	A	10/1997	Salter
5,697,053	A	12/1997	Hanly et al.
5,699,365	A	12/1997	Klayman et al.
5,701,294	A	12/1997	Ward et al.
5,710,768	A	1/1998	Ziv et al.
5,710,974	A	1/1998	Granlund et al.
5,726,978	A	3/1998	Frodigh et al.
5,729,557	A	3/1998	Gardner et al.
5,734,646	A	3/1998	I et al.
5,734,647	A	3/1998	Yoshida et al.
5,745,480	A	4/1998	Behtash et al.
5,748,677	A	5/1998	Kumar
5,751,725	A	5/1998	Chen
5,757,810	A	5/1998	Fall
5,764,687	A	6/1998	Easton
5,764,699	A *	6/1998	Needham et al. 375/261
5,764,899	A	6/1998	Eggleston et al.
5,771,226	A	6/1998	Kaku et al.
5,771,451	A	6/1998	Takai et al.
5,771,461	A	6/1998	Love et al.
5,774,809	A	6/1998	Tuutijarvi
5,781,539	A	7/1998	Tanaka
5,781,583	A	7/1998	Bruckert et al.
5,787,133	A	7/1998	Marchetto et al.
5,793,759	A	8/1998	Rakib et al.
5,799,005	A	8/1998	Soliman
5,802,046	A	9/1998	Scott
5,805,581	A	9/1998	Uchida et al.
5,805,585	A	9/1998	Javitt et al.
5,812,938	A	9/1998	Gilhousen et al.
5,822,315	A	10/1998	de Seze et al.
5,822,318	A	10/1998	Tiedemann, Jr. et al.
5,822,358	A	10/1998	Johansen et al.
5,822,359	A	10/1998	Bruckert et al.
5,825,761	A	10/1998	Tanaka et al.
5,832,368	A	11/1998	Nakano et al.
5,835,508	A	11/1998	Kushita
5,842,113	A	11/1998	Nanda et al.
5,845,212	A	12/1998	Tanaka
5,848,357	A	12/1998	Dehner
5,850,605	A	12/1998	Souissi et al.
5,857,147	A	1/1999	Gardner et al.
5,862,132	A	1/1999	Blanchard et al.
5,862,453	A	1/1999	Love et al.
5,870,393	A	2/1999	Yano et al.
5,872,775	A	2/1999	Saints et al.
5,878,038	A	3/1999	Willey
5,896,561	A	4/1999	Schrader et al.
5,901,142	A	5/1999	Averbuch et al.
5,903,554	A	5/1999	Saints
5,914,950	A	6/1999	Chen et al.
5,914,959	A	6/1999	Marchetto et al.
5,918,184	A	6/1999	Wang et al.
5,920,551	A	7/1999	Na et al.
5,923,650	A	7/1999	Chen et al.
5,930,288	A	7/1999	Eberhardt
5,933,421	A	8/1999	Alamouti et al.
5,933,462	A	8/1999	Viterbi et al.
5,933,787	A	8/1999	Gilhousen et al.
5,937,002	A	8/1999	Andersson et al.
5,937,357	A	8/1999	Tanaka
5,940,765	A	8/1999	Haartsen
5,943,327	A	8/1999	Mademann et al.
5,943,331	A	8/1999	Lavean
5,946,346	A	8/1999	Ahmed et al.
5,946,356	A	8/1999	Felix et al.
5,946,621	A	8/1999	Chheda et al.
5,950,124	A	9/1999	Trompower et al.
5,953,325	A	9/1999	Willars
5,956,642	A	9/1999	Larsson
5,960,350	A	9/1999	Schorman et al.