U.S. PATENT DOCUMENTS

5,574,979 A 11/1996 West
5,602,833 A 2/1997 Zehavi
5,608,722 A 3/1997 Miller
5,640,420 A 6/1997 Jung
5,659,877 A 8/1997 Enomoto et al.
5,691,974 A 11/1997 Zehavi et al.
5,709,541 A 1/1998 Gensler et al.
5,734,962 A 3/1998 Hladik et al.
5,742,619 A 4/1998 Hassan
5,751,725 A 5/1998 Chen
5,754,605 A 5/1998 Chong et al.
5,757,767 A 5/1998 Zehavi
5,774,496 A 6/1998 Butler et al.
5,790,541 A 8/1998 Patrick et al.
5,844,918 A 12/1998 Kato
5,878,098 A 3/1999 Wang et al.
5,883,888 A 3/1999 St-Pierre
5,886,654 A 3/1999 Ichikawa et al.
5,896,373 A 4/1999 Mitts et al.
5,920,817 A 7/1999 Umeda et al.
5,995,517 A 11/1999 Tomida et al.
5,999,816 A 12/1999 Tiedemann, Jr. et al.
6,002,678 A 12/1999 Jayapalan et al.
6,009,086 A 12/1999 Freeburg et al.
6,012,088 A 1/2000 Li et al.
6,012,159 A 1/2000 Fischer et al.
6,091,777 A 7/2000 Guetz et al.
6,128,287 A 10/2000 Freeburg et al.
6,128,528 A 10/2000 Ericksen et al.
6,134,440 A 10/2000 Black
6,195,342 B1 2/2001 Rohani
6,202,189 B1 3/2001 Hinedi et al.
6,208,873 B1 3/2001 Black et al.
6,233,439 B1 5/2001 Jalali
6,240,288 B1 5/2001 Wan et al.
6,247,150 B1 6/2001 Niemela
6,256,300 B1 7/2001 Ahmed et al.
6,256,501 B1 7/2001 Tokuyama et al.
6,263,204 B1 7/2001 Kusaki et al.
6,278,716 B1 8/2001 Rubenstein et al.
6,300,864 B1 10/2001 Willey
6,307,844 B1 10/2001 Tsunehara et al.
6,308,079 B1 10/2001 Pan et al.
6,353,637 B1 3/2002 Mansour et al.
6,359,874 B1 3/2002 Dent
6,405,039 B1 6/2002 Koorapaty et al.
6,414,945 B1 7/2002 Chennakeshu et al.
6,414,946 B1 7/2002 Satou et al.
6,484,283 B2 11/2002 Stephen et al.
6,498,936 B1 12/2002 Raith
6,516,435 B1 2/2003 Tsunoda
6,532,562 B1 3/2003 Chou et al.
6,574,211 B2 6/2003 Padovani et al.
6,601,208 B2 7/2003 Wu
6,606,037 B2 8/2003 Ekstrand et al.
6,611,690 B1 8/2003 Moulsley et al.
6,622,023 B2 9/2003 Chheda
6,628,924 B1 9/2003 Miyamoto
6,658,005 B2 12/2003 Seidel et al.
6,665,522 B1 12/2003 Lundstrom et al.
6,677,864 B2 1/2004 Khayrallah
6,690,659 B1 2/2004 Ahmed et al.
6,694,474 B2 2/2004 Ramprashad et al.
6,707,801 B2 3/2004 Hsu
6,718,160 B2 4/2004 Schmutz
6,718,180 B1 4/2004 Lundh et al.
6,725,043 B2 4/2004 Bonta et al.
6,728,226 B1 4/2004 Naito
6,728,514 B2 4/2004 Bandeira et al.
6,731,936 B2 5/2004 Chen et al.
6,741,577 B1 5/2004 Henon
6,751,209 B1 6/2004 Hamiti et al.
6,754,495 B2 6/2004 Kusaki et al.
6,765,896 B1 7/2004 Ahmed et al.
6,771,670 B1 8/2004 Pfahler et al.
6,778,558 B2 8/2004 Balachandran et al.
6,781,976 B1 8/2004 Sonning et al.
6,791,963 B1 9/2004 Hwang et al.
6,795,419 B2 9/2004 Parantainen et al.
6,804,223 B2 10/2004 Hoffmann et al.
6,839,356 B2 1/2005 Barany et al.
6,873,621 B2 3/2005 Kamoi et al.
6,895,019 B2 5/2005 Gibson et al.
6,901,083 B2 5/2005 Wei et al.
6,909,702 B2 6/2005 Leung et al.
6,947,407 B2 9/2005 Ayyagari et al.
6,959,199 B2 10/2005 Ohkubo et al.
6,963,540 B2 11/2005 Choi et al.
6,980,820 B2 12/2005 Sinnarajah et al.
6,983,166 B2 1/2006 Shiu et al.
6,986,092 B2 1/2006 Butler et al.
6,996,069 B2 2/2006 Willenegger
7,000,174 B2 2/2006 Mantha et al.
7,016,327 B2 3/2006 Grilli et al.
7,016,686 B2 3/2006 Spaling et al.
7,020,109 B2 3/2006 Grilli et al.
7,061,327 B2 6/2006 Doy
7,103,279 B1 9/2006 Koh et al.
7,164,650 B2 1/2007 Kim et al.
7,177,658 B2 2/2007 Willenegger et al.
7,197,317 B2 3/2007 Parkvall et al.
7,233,572 B2 6/2007 Kim et al.
7,242,922 B2 7/2007 Fieldhouse et al.
7,242,933 B1 7/2007 Ahmavaara
7,317,697 B2 1/2008 Lewis et al.
7,318,187 B2 1/2008 Vayanos et al.
7,376,438 B2 5/2008 Shiu et al.
7,436,857 B2 10/2008 Fong et al.
7,460,562 B2 12/2008 Dupuy et al.
7,509,127 B2 3/2009 Wang et al.
7,583,977 B2 9/2009 Willenegger et al.
7,593,746 B2 9/2009 Willenegger et al.
7,643,452 B2 1/2010 Grilli et al.
7,675,944 B2 3/2010 Grilli et al.
7,702,990 B2 4/2010 Rhee et al.
8,010,111 B2 8/2011 Grilli et al.
2001/0012279 A1 8/2001 Haumont et al.
2001/0027112 A1 10/2001 Voyer
2001/0046262 A1 11/2001 Freda
2002/0155839 A1 10/2002 Nisbet
2002/0159482 A1 10/2002 Hans et al.
2003/0035389 A1* 2/2003 Chen et al. 370/331
2003/0072384 A1 4/2003 Chen et al.
2003/0100269 A1 5/2003 Lehtinen et al.
2003/0123389 A1 7/2003 Russell et al.
2003/0134655 A1 7/2003 Chen et al.
2003/0139140 A1 7/2003 Chen et al.
2005/0169205 A1 8/2005 Grilli et al.
2005/0193309 A1 9/2005 Grilli et al.
2005/0195760 A1 9/2005 Lee et al.
2008/0098283 A1 4/2008 Vayanos et al.
2008/0141094 A1 6/2008 Vayanos et al.
2008/0141097 A1 6/2008 Vayanos et al.
2008/0151805 A1 6/2008 Vayanos et al.
2010/0172279 A1 7/2010 Chen et al.

FOREIGN PATENT DOCUMENTS

CN 1196845 A 10/1998
CN 1311613 A 9/2001
CN 1329799 1/2002
EP 0712219 A2 5/1996
EP 0928116 A2 7/1999
EP 0938207 8/1999
EP 0996292 A1 4/2000
EP 1067704 1/2001
EP 1098540 5/2001
GB 2116403 9/1983
JP 2145038 A 6/1990
JP 5167616 A 7/1993
JP 07087099 3/1995
JP 9102745 4/1997
JP 9246998 A 9/1997
JP 10098507 A 4/1998
JP 10107779 4/1998
JP 10200595 7/1998
JP 11252009 A 9/1999
JP 11308133 A 11/1999