U.S. PATENT DOCUMENTS

4,218,255 A 8/1980 Bajpai et al.
4,222,128 A 9/1980 Tomonaga et al. 3/1.9
4,253,877 A 3/1981 Miale et al. 106/18.35
4,308,064 A 12/1981 Takami et al.
4,330,891 A * 5/1982 Branemark et al. 623/23.61
4,431,428 A 2/1984 Schmer 604/897
4,492,577 A 1/1985 Farris et al. 433/201
4,629,464 A * 12/1986 Takata et al. 623/23.61
4,637,931 A * 1/1987 Schmitz 424/426
4,695,455 A 9/1987 Barnes et al. 424/93
4,722,870 A 2/1988 White 428/621
4,737,411 A 4/1988 Graves, Jr. et al. 428/403
4,780,450 A 10/1988 Sauk et al.
4,843,112 A 6/1989 Gerhart et al.
4,870,055 A 9/1989 Urry et al. 514/12
4,880,610 A 11/1989 Costantz
RE33,161 E 2/1990 Brown et al.
RE33,221 E 5/1990 Brown et al.
4,976,736 A 12/1990 White et al.
5,011,495 A * 4/1991 Hollinger 424/423
5,034,352 A 7/1991 Vit et al.
5,035,896 A 7/1991 Apfel et al. 424/456
5,051,304 A 9/1991 David et al. 428/402.2
5,053,212 A 10/1991 Costantz et al.
5,079,018 A 1/1992 Ecanow 426/385
5,132,117 A 7/1992 Speaker et al. 424/490
5,167,502 A 12/1992 Kawahara et al. 433/173
5,204,055 A 4/1993 Sachs et al. 419/2
5,250,516 A 10/1993 Urry 514/17
5,336,256 A 8/1994 Urry 623/1
5,356,629 A * 10/1994 Sander et al. 424/422
5,370,692 A 12/1994 Fink et al.
5,455,100 A 10/1995 White
5,489,306 A 2/1996 Gorski 623/16
5,490,962 A 2/1996 Cima et al.
5,518,680 A 5/1996 Cima et al.
5,531,794 A 7/1996 Takagi et al. 623/16
5,626,861 A 5/1997 Laurencin et al.
5,639,402 A 6/1997 Barlow et al.
5,643,672 A 7/1997 Marchi et al. 428/402
5,660,849 A * 8/1997 Polson et al. 424/426
5,676,745 A 10/1997 Kelly et al.
5,686,113 A 11/1997 Speaker et al. 424/490
5,759,582 A 6/1998 Leong et al. 424/492
5,766,618 A 6/1998 Laurencin et al.
5,769,897 A * 6/1998 Harle 424/423
5,837,752 A 11/1998 Shastri et al.
5,843,348 A 12/1998 Giordano
5,861,159 A 1/1999 Pardoll et al. 424/184.1
5,869,170 A * 2/1999 Cima et al. 428/304.4
5,876,446 A 3/1999 Agrawal et al.
5,876,452 A 3/1999 Athanasiou et al.
5,939,039 A 8/1999 Sapieszko et al.
5,947,893 A 9/1999 Agrawal et al.
6,010,336 A 1/2000 Shimotoso et al. 433/201.1
6,018,095 A 1/2000 Lerch et al.
6,077,989 A 6/2000 Kandel et al.
6,136,029 A 10/2000 Johnson et al.
6,139,574 A 10/2000 Vacanti et al.
6,149,688 A 11/2000 Brosnahan et al.
6,150,459 A 11/2000 Mayes et al.
6,159,417 A 12/2000 Giordano
6,165,486 A 12/2000 Marra et al.
6,174,167 B1 1/2001 Wöhrle
6,176,874 B1 * 1/2001 Vacanti et al. 623/1.44
6,180,141 B1 1/2001 Lemercier et al. 424/489
6,187,046 B1 2/2001 Yamamoto et al. 623/16.11
6,187,329 B1 2/2001 Agrawal et al.
6,193,970 B1 2/2001 Pardoll et al. 424/184.1
6,201,039 B1 3/2001 Brown et al.
6,203,574 B1 3/2001 Kawamura 623/16.11
6,206,924 B1 3/2001 Timm
6,207,749 B1 3/2001 Mayes et al.
6,214,368 B1 4/2001 Lee et al.
6,224,630 B1 5/2001 Bao et al.
6,224,905 B1 5/2001 Lawrence et al. 424/464
6,228,339 B1 5/2001 Ota et al.
6,235,225 B1 5/2001 Okada et al. 264/44
6,235,665 B1 5/2001 Pickrell et al.
6,241,771 B1 6/2001 Gresser et al.
6,242,247 B1 6/2001 Rieser et al. 435/297.1
6,255,359 B1 7/2001 Agrawal et al.
6,261,322 B1 7/2001 Despres, III et al.
6,264,701 B1 7/2001 Brekke
6,277,394 B1 8/2001 Sierra
6,283,997 B1 9/2001 Garg et al.
6,287,341 B1 9/2001 Lee et al.
6,294,187 B1 9/2001 Boyce et al. 424/422
6,296,667 B1 10/2001 Johnson et al.
6,302,913 B1 10/2001 Ripamonti et al.
6,309,669 B1 10/2001 Setterstrom et al. 424/486
6,325,992 B1 12/2001 Chow et al.
6,331,312 B1 12/2001 Lee et al.
6,332,728 B1 12/2001 Ito et al.
6,364,909 B1 4/2002 McGee
6,376,573 B1 4/2002 White et al.
6,383,519 B1 5/2002 Sapieszko et al.
6,399,700 B1 6/2002 Mayes et al.
6,454,811 B1 9/2002 Sherwood et al.
6,458,162 B1 10/2002 Koblish et al.
6,471,993 B1 10/2002 Shastri et al.
6,511,510 B1 1/2003 de Bruijn et al.
6,521,246 B1 2/2003 Sapieszko et al.
6,530,958 B1 3/2003 Cima et al.
6,540,784 B1 4/2003 Barlow et al.
6,548,002 B1 4/2003 Gresser et al.
6,558,422 B1 * 5/2003 Baker et al. 623/16.11
6,605,293 B1 8/2003 Giordano et al.
6,767,550 B1 7/2004 Gènin et al.

FOREIGN PATENT DOCUMENTS

EP 0634149 A1 1/1995
EP 0701808 A2 3/1996
EP 0701808 A2 3/1996
EP 0803241 A2 10/1997
EP 0803241 A2 10/1997
WO WO 97/46178 12/1997
WO WO 99/16478 4/1999
WO WO 00/71083 11/2000
WO WO 01/12106 2/2001

* cited by examiner