(51) **Int. Cl.**
H01R 13/62 (2006.01)
H01R 11/30 (2006.01)

(56) **References Cited**

U.S. PATENT DOCUMENTS

2,947,914	A	8/1960	Simons
3,005,282	A	10/1961	Christiansen
3,034,254	A	5/1962	Christiansen
3,205,407	A	9/1965	Thompson
3,553,438	A	1/1971	Blitz et al.
3,594,689	A	7/1971	Hopt et al.
3,640,018	A	2/1972	Light
3,659,219	A	4/1972	Rueff, Jr.
3,803,531	A	4/1974	Sorensen
3,862,512	A	1/1975	Vogel
3,863,931	A	2/1975	Forsyth et al.
3,877,028	A	4/1975	Thomas
3,970,805	A	7/1976	Thomas
4,021,252	A	5/1977	Banczak
D244,632	S	6/1977	Christiansen
4,053,159	A	10/1977	Kulak
4,064,377	A	12/1977	Regan
4,158,921	A	6/1979	Stolpen
4,181,824	A	1/1980	Seidel
4,183,173	A	1/1980	Ogawa
4,211,456	A	7/1980	Sears
4,233,778	A	11/1980	Lemelson
4,284,123	A	8/1981	Plöckinger et al.
4,285,563	A	8/1981	Crosier et al.
4,314,236	A	2/1982	Mayer et al.
4,323,243	A	4/1982	Hanson et al.
4,348,191	A	9/1982	Lipsitz et al.
D267,895	S	2/1983	Petrie
4,376,538	A	3/1983	Keenan
4,449,942	A	5/1984	Salit
4,456,321	A	6/1984	Jones et al.
4,496,149	A	1/1985	Schwartzberg
4,510,210	A	4/1985	Hunt
4,516,260	A	5/1985	Breedlove et al.
4,538,675	A	9/1985	Welsh
4,542,784	A	9/1985	Welsh
4,546,267	A	10/1985	Urfirer
4,547,027	A	10/1985	Scheibenreif
4,552,541	A	11/1985	Bolli
4,556,272	A	12/1985	Briones
4,556,393	A	12/1985	Bolli
4,578,649	A	3/1986	Shupe
4,606,732	A	8/1986	Lyman
4,712,184	A	12/1987	Haugerud
4,736,367	A	4/1988	Wroblewski et al.
4,743,202	A	5/1988	Bach
4,796,891	A	1/1989	Milner
4,820,233	A	4/1989	Weiner
4,838,794	A	6/1989	Coddington
4,840,602	A	6/1989	Rose
4,846,687	A	7/1989	White et al.
4,853,884	A	8/1989	Brown et al.
4,874,176	A	10/1989	Auerbach
4,878,848	A	11/1989	Ingalsbe
4,883,440	A	11/1989	Bolli
4,890,241	A	12/1989	Hoffman et al.
4,893,817	A	1/1990	Shilo
4,905,176	A	2/1990	Schulz
4,910,396	A	3/1990	Grove
4,936,780	A	6/1990	Cogliano
4,937,811	A	6/1990	Harris
4,964,833	A	10/1990	Suzuki
4,968,255	A	11/1990	Lee et al.
4,969,827	A	11/1990	Hahs, Jr.
4,978,317	A	12/1990	Pocrass
5,013,276	A	5/1991	Garfinkel
5,088,951	A	2/1992	Majurinen
D324,551	S	3/1992	Skov
5,172,534	A	12/1992	Milner et al.
5,190,287	A	3/1993	Ishiyama
5,191,276	A	3/1993	Zainaleain
5,203,711	A	4/1993	Bogiel
5,205,758	A	4/1993	Comerci et al.
D335,508	S	5/1993	Skov
5,227,232	A	7/1993	Lim
5,236,375	A	8/1993	Kachlic
D339,613	S	9/1993	Pirnat
5,244,403	A	9/1993	Smith et al.
5,275,567	A	1/1994	Whitfield
5,281,154	A	1/1994	Comerci et al.
5,304,069	A	4/1994	Brunker et al.
5,319,241	A	6/1994	Lim
5,345,221	A	9/1994	Pons et al.
5,349,129	A	9/1994	Wisniewski et al.
D352,750	S	11/1994	Kushner et al.
5,371,355	A	12/1994	Wodecki
D354,318	S	1/1995	Ryaa et al.
5,380,951	A	1/1995	Comerci et al.
5,385,344	A	1/1995	Miller et al.
5,409,227	A	4/1995	Walker
5,423,684	A	6/1995	Ishikawa
5,445,552	A	8/1995	Hine
5,447,433	A	9/1995	Perry, Jr.
5,451,178	A	9/1995	Yorozu et al.
5,452,201	A	9/1995	Pieronek et al.
5,455,749	A	10/1995	Ferber
5,459,283	A	10/1995	Birdwell, Jr.
5,462,443	A	10/1995	Kurbjuhn et al.
5,463,486	A	10/1995	Stevens
5,467,102	A	11/1995	Kuno et al.
5,469,331	A	11/1995	Conway et al.
D365,756	S	1/1996	Rask et al.
5,512,710	A	4/1996	Schroeder
D370,035	S	5/1996	Olsen
D371,583	S	7/1996	Knudsen
5,547,399	A	8/1996	Naghi et al.
5,547,933	A	8/1996	Lin
5,558,542	A	9/1996	O'Sullivan et al.
D374,257	S	10/1996	Schmidt et al.
5,563,771	A	10/1996	Bethurum
5,574,312	A	11/1996	Bayerer et al.
5,580,283	A	12/1996	O'Sullivan et al.
5,596,233	A	1/1997	Leiber et al.
5,607,336	A	3/1997	Lebensfeld et al.
5,610,931	A	3/1997	Huang
D378,837	S	4/1997	Olsen et al.
5,645,463	A	7/1997	Olsen
5,648,892	A	7/1997	Wieloch et al.
5,651,685	A	7/1997	Brinkman et al.
5,658,155	A	8/1997	McFarlane et al.
5,661,470	A	8/1997	Karr
5,663,938	A	9/1997	Dang et al.
5,667,411	A	9/1997	O'Sullivan et al.
D385,926	S	11/1997	Nielsen
5,697,829	A	12/1997	Chainani et al.
5,703,761	A	12/1997	Heiss
D389,408	S	1/1998	Rask et al.
5,705,853	A	1/1998	Faller et al.
5,721,496	A	2/1998	Farnworth et al.
5,722,861	A	3/1998	Wetter
5,724,074	A	3/1998	Chainani et al.
5,739,050	A	4/1998	Farnworth
5,742,169	A	4/1998	Akram et al.
5,742,486	A	4/1998	Yangkuai
5,746,638	A	5/1998	Shiraishi
5,747,940	A	5/1998	Openiano
5,766,077	A	6/1998	Hongo
5,779,515	A	7/1998	Chung
5,799,067	A	8/1998	Kikinis et al.
RE35,896	E	9/1998	Brunker et al.
5,812,397	A	9/1998	Pech et al.
5,838,161	A	11/1998	Akram et al.
5,841,360	A	11/1998	Binder
5,845,503	A	12/1998	Choi
5,848,503	A	12/1998	Toft et al.
5,850,581	A	12/1998	Roller
5,853,327	A	12/1998	Gilboa
5,872,354	A	2/1999	Hanson
5,901,263	A	5/1999	Gaio et al.