

PLANT PATENTS

JANUARY 1, 1977 -- DECEMBER 31, 2003



March 2004

U.S. PATENT AND TRADEMARK OFFICE
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A PATENT TECHNOLOGY MONITORING DIVISION REPORT

This Patent Technology Monitoring Division (PTMD) Program Report profiles patent activity for U.S. plant patents (hereafter referred to as patents) granted between **January 1, 1977** and **December 31, 2003**. The source of the data used for this report is the PTMD database maintained by the Information Products Division.

Data Distribution By Date of Grant and By Date of Application

Parts A1 and A2

Part A1 distributes patent GRANT data by year of patent grant ("Patents Granted By Date of Patent Grant"). Part A2 distributes grant data by the year in which the patented application was filed ("Patents Granted By Date of Patent Application"). Parts A1 and A2 each provide patent counts (pages A1-1 and A2-1) and percent distributions (pages A1-2 and A2-2).

Patent data in the "**Pre 1990**" column corresponds to the period **January 1, 1977** through **December 31, 1989**.

Part B

Part B of this report distributes patent GRANT data for organizations that have received U.S. patents since 1977. Data are presented by the year in which the patent was granted ("Patents By Year of Grant") and the year the patented application was filed ("Patents by Year of Application").

DATA FOR THOSE APPLICATIONS WHICH WERE FILED BUT NEVER ISSUED (ROUGHLY 25% OF TOTAL FILINGS) ARE NOT INCLUDED IN THIS REPORT.

Since the average time period between filing for a patent and the issuing of the patent (i.e., a patent's "pendency") is now about 24 months, the patented application data for the most recent years are incomplete.* This is because a significant number of the applications filed in the most recent years, which will ultimately become patents, were still pending in **December 2003**. Since they had not yet become patents at the time this report was prepared, they were not included in this report.

Patented application data are of significant value since the date an application was filed more accurately reflects when the technology was developed. Additionally, fluctuations in data based on application date are much more likely to reflect changes in technological activity, since such fluctuations would for the most part be immune from changes in PTO processing such as occurred in years such as 1986 when the PTO issued fewer patents than would normally have been expected due to a lack of funds to print patents. Note that a patent's "pendency" can be quite variable

from one patent to another thereby affecting the date of patent grant. Such variation in pendency is determined by many factors, including PTO workload (which varies between technologies), budget and manpower levels, patent printing schedules, etc.

Parts of the Report

Parts A1 and A2 present tables which show, by number and percent, the patent activity. Part A1 presents data by year of patent grant ("Patents Granted by Date of Patent Grant"). Part A2 redistributes grant data by year of patent application ("Patents Granted by Date of Patent Application"). The location of patent origin is determined by the residence of the first-named inventor at the time of grant.

Information on **patent ownership** reflects ownership at the time of patent grant and does not include subsequent changes in ownership. If more than one assignee was declared at the time of grant, the patent is attributed to the first-named assignee. The U.S. and Foreign Corporations ownership categories count predominantly corporate patents; however, patents assigned to other organizations such as small businesses, nonprofit organizations, universities, etc. are also included in this category. While U.S. Government patent ownership includes only patents granted to the Federal Government, no such distinction is made for Foreign Government patents.

Part B is a ranked listing of national and international organizations (i.e., corporations, universities, government agencies) which have received 5 or more U.S. plant patents since 1977. Data line 1 for each listed organization distributes counts of patent grants by year of grant. Data line 2 for each organization redistributes those same patent grants by year in which the patented application was filed. Information on patent ownership reflects ownership at the time of patent grant. Although a substantial effort has been made to combine name variations into a single organizational name, many organizations continue to have patents listed under more than one organizational name.

* As of **December 31, 2003**, UTILITY patent application data (most issued patent documents are utility patents) were approximately 92% complete for patent applications filed in 1999, 76% complete for applications filed in 2000, and 50% complete for 2001 filings. They are essentially complete for applications filed prior to 1999. Currently, completion percentages restricted to plant patents are not available.

Part A1

Patent Grants As Distributed By Year of Patent Grant

---- Patents Granted By Date Of Patent Grant (Granted: Jan 01, 1977 - Dec 31, 2003) ----

	NUMBER OF PATENTS															
	Pre 1990	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	Total
Total	3079	318	353	321	442	499	387	362	394	561	420	548	584	1133	994	10395
U.S. Origin	2074	153	237	196	236	283	201	183	230	245	200	232	372	518	395	5755
Foreign Origin	1005	165	116	125	206	216	186	179	164	316	220	316	212	615	599	4640
NETHERLANDS	213	38	23	46	63	63	34	41	29	71	65	102	57	218	162	1225
GERMANY	332	51	39	17	52	32	44	48	34	62	53	70	22	145	166	1167
FRANCE	131	34	21	13	22	16	16	18	27	27	10	9	4	26	13	387
UNITED KINGDOM	98	11	7	4	13	37	16	8	22	24	20	35	9	35	42	381
DENMARK	33	1	3	4	3	11	16	27	9	40	11	24	21	79	25	307
JAPAN	23	7	2	11	8	9	13	9	6	20	12	16	23	30	68	257
AUSTRALIA	19	3	9	2	3	2	3	7	14	13	11	15	25	27	25	178
ISRAEL	4	2		7	21	14	21	7		12	6	3	14	8	18	137
BELGIUM	11		2	2	2	10	3	2	4	20	5	12	6	10	38	127
NEW ZEALAND	34	2	4	7	7	6	4	2	2	4	9	11	4	7	12	115
CANADA	16	6	1	8	5	2	7		15	8	6	10	7	5	5	101
COSTA RICA	32		3		4	4	6	5		4	2	1	9	5	4	79
ITALY	16	9		2	2	1	1	2		1	1	2		1	2	40
INDIA										2	1		1	12	7	23
SOUTH AFRICA	1									6	1		4	1	4	17
AUSTRIA	16					1										17
SWITZERLAND	13													1	2	16
SPAIN	2			2		3		2			1	1	1		1	13
SWEDEN	4		1		1			1		1	1	1	1			11
COLOMBIA	4	1				1	1							1		8
SOUTH KOREA											2	1	3	1		7
ARGENTINA	1					1			1							3
HONDURAS						1			1						1	3
MEXICO											1	1		1		3
BRAZIL												2		1		3
THAILAND														1	2	3
TAIWAN	1					1										2
IRELAND						1	1									2
ECUADOR															2	2
PHILIPPINES											1					1
SLOVAKIA											1					1
LEBANON			1													1
PORTUGAL													1			1
NORWAY	1															1
MOROCCO										1						1
Ownership:																
U.S. Corporations	1672	144	188	164	232	250	200	163	198	237	167	246	321	454	321	4957
U.S. Government			1						2		1			8		12
U.S. Individuals	803	57	75	60	61	82	59	55	73	74	65	48	89	118	102	1821
Foreign Corporations	390	75	44	74	104	150	104	116	98	199	149	207	134	409	440	2693
Foreign Government	2	1	1	8	5	2	5		5	1	2	4	4	1	1	42
Foreign Individuals	212	41	44	15	40	15	19	28	18	50	36	43	36	143	130	870

----- Patents Granted By Date Of Patent Grant (Granted: Jan 01, 1977 - Dec 31, 2003) -----

	PERCENT OF PATENTS															
	Pre 1990	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	Total
Total	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
U.S. Origin	67	48	67	61	53	57	52	51	58	44	48	42	64	46	40	55
Foreign Origin	33	52	33	39	47	43	48	49	42	56	52	58	36	54	60	45
NETHERLANDS	7	12	7	14	14	13	9	11	7	13	15	19	10	19	16	12
GERMANY	11	16	11	5	12	6	11	13	9	11	13	13	4	13	17	11
FRANCE	4	11	6	4	5	3	4	5	7	5	2	2	1	2	1	4
UNITED KINGDOM	3	3	2	1	3	7	4	2	6	4	5	6	2	3	4	4
DENMARK	1		1	1	1	2	4	7	2	7	3	4	4	7	3	3
JAPAN	1	2	1	3	2	2	3	2	2	4	3	3	4	3	7	2
AUSTRALIA	1	1	3	1	1		1	2	4	2	3	3	4	2	3	2
ISRAEL		1		2	5	3	5	2		2	1	1	2	1	2	1
BELGIUM			1	1		2	1	1	1	4	1	2	1	1	4	1
NEW ZEALAND	1	1	1	2	2	1	1	1	1	1	2	2	1	1	1	1
CANADA	1	2		2	1		2		4	1	1	2	1		1	1
COSTA RICA	1		1		1	1	2	1		1			2			1
ITALY	1	3		1				1								0
INDIA														1	1	0
SOUTH AFRICA										1			1			0
AUSTRIA	1															0
SWITZERLAND																0
SPAIN				1		1		1								0
SWEDEN																0
COLOMBIA																0
SOUTH KOREA													1			0
ARGENTINA																0
HONDURAS																0
MEXICO																0
BRAZIL																0
THAILAND																0
TAIWAN																0
IRELAND																0
ECUADOR																0
PHILIPPINES																0
SLOVAKIA																0
LEBANON																0
PORTUGAL																0
NORWAY																0
MOROCCO																0
Ownership:																
U.S. Corporations	54	45	53	51	52	50	52	45	50	42	40	45	55	40	32	48
U.S. Government									1					1		0
U.S. Individuals	26	18	21	19	14	16	15	15	19	13	15	9	15	10	10	18
Foreign Corporations	13	24	12	23	24	30	27	32	25	35	35	38	23	36	44	26
Foreign Government				2	1		1		1			1	1			0
Foreign Individuals	7	13	12	5	9	3	5	8	5	9	9	8	6	13	13	8

Part A2

Patent Grants As Distributed By Year of Patent Application

---- Patents Granted By Date Of Patent Application (Granted: Jan 01, 1977 - Dec 31, 2003) ----

	NUMBER OF PATENTED APPLICATIONS															
	Pre 1990	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	Total
Total	3563	410	399	316	340	424	431	624	623	585	613	602	845	594	26	10395
U.S. Origin	2344	251	212	179	214	221	218	316	266	274	348	281	391	219	21	5755
Foreign Origin	1219	159	187	137	126	203	213	308	357	311	265	321	454	375	5	4640
NETHERLANDS	262	40	74	28	41	37	47	58	89	99	92	114	127	116	1	1225
GERMANY	394	45	35	26	25	46	52	47	88	79	31	47	108	141	3	1167
FRANCE	174	22	12	19	13	14	21	38	17	15	6	22	11	2	1	387
UNITED KINGDOM	113	13	7	16	14	23	11	33	33	36	7	26	32	17		381
DENMARK	36	2	6		8	19	27	35	26	24	43	22	40	19		307
JAPAN	30	12	4	11	2	12	15	26	15	9	34	20	37	30		257
AUSTRALIA	28	4	2	2	2	4	8	21	21	10	15	16	27	18		178
ISRAEL	6	1	29	5	7	25	3	12	8	2	13	17	6	3		137
BELGIUM	11	4		8	8	2	3	15	10	10	6	9	25	16		127
NEW ZEALAND	39	6	8	6	1	5	2	6	18	3	2	1	13	5		115
CANADA	23	4	6	5	1	6	9	11	9	10	6	4	7			101
COSTA RICA	32	3		5	1	5	8		7		5	8	2	3		79
ITALY	25	1	3	1		1	2	2		2		1	2			40
INDIA									3	2	1	6	9	2		23
SOUTH AFRICA	1						1	4	2	2	2	2	2	1		17
AUSTRIA	16				1											17
SWITZERLAND	13											1	1	1		16
SPAIN	2	2		3			2		1	1	1		1			13
SWEDEN	5		1			1			2	1	1					11
COLOMBIA	5			1		1							1			8
SOUTH KOREA									3	4						7
HONDURAS						1	1						1			3
ARGENTINA	1				1		1									3
MEXICO									2				1			3
BRAZIL										2		1				3
THAILAND												1	1	1		3
TAIWAN	1			1												2
IRELAND					1	1										2
ECUADOR												2				2
SLOVAKIA									1							1
MOROCCO									1							1
NORWAY	1															1
PHILIPPINES									1							1
PORTUGAL												1				1
LEBANON	1															1
Ownership:																
U.S. Corporations	1908	205	184	182	184	213	191	293	239	273	305	265	316	177	22	4957
U.S. Government	1						1	1	1		1	2	5			12
U.S. Individuals	887	82	58	48	59	64	77	93	89	67	80	71	100	46		1821
Foreign Corporations	499	71	114	69	88	123	130	191	212	219	160	199	311	305	2	2693
Foreign Government	3	2	11	3	1	4	2	4	3	4	3		2			42
Foreign Individuals	265	50	32	14	8	20	30	42	79	22	64	65	111	66	2	870

---- Patents Granted By Date Of Patent Application (Granted: Jan 01, 1977 - Dec 31, 2003) ----

	PERCENT OF PATENTED APPLICATIONS															
	Pre 1990	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	Total
Total	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
U.S. Origin	66	61	53	57	63	52	51	51	43	47	57	47	46	37	81	55
Foreign Origin	34	39	47	43	37	48	49	49	57	53	43	53	54	63	19	45
NETHERLANDS	7	10	19	9	12	9	11	9	14	17	15	19	15	20	4	12
GERMANY	11	11	9	8	7	11	12	8	14	14	5	8	13	24	12	11
FRANCE	5	5	3	6	4	3	5	6	3	3	1	4	1		4	4
UNITED KINGDOM	3	3	2	5	4	5	3	5	5	6	1	4	4	3		4
DENMARK	1		2		2	4	6	6	4	4	7	4	5	3		3
JAPAN	1	3	1	3	1	3	3	4	2	2	6	3	4	5		2
AUSTRALIA	1	1	1	1	1	1	2	3	3	2	2	3	3	3		2
ISRAEL			7	2	2	6	1	2	1		2	3	1	1		1
BELGIUM		1		3	2		1	2	2	2	1	1	3	3		1
NEW ZEALAND	1	1	2	2		1		1	3	1			2	1		1
CANADA	1	1	2	2		1	2	2	1	2	1	1	1			1
COSTA RICA	1	1		2		1	2		1		1	1		1		1
ITALY	1		1													0
INDIA												1	1			0
SOUTH AFRICA								1								0
AUSTRIA																0
SWITZERLAND																0
SPAIN				1												0
SWEDEN																0
COLOMBIA																0
SOUTH KOREA										1						0
HONDURAS																0
ARGENTINA																0
MEXICO																0
BRAZIL																0
THAILAND																0
TAIWAN																0
IRELAND																0
ECUADOR																0
SLOVAKIA																0
MOROCCO																0
NORWAY																0
PHILIPPINES																0
PORTUGAL																0
LEBANON																0
Ownership:																
U.S. Corporations	54	50	46	58	54	50	44	47	38	47	50	44	37	30	85	48
U.S. Government													1			0
U.S. Individuals	25	20	15	15	17	15	18	15	14	11	13	12	12	8		18
Foreign Corporations	14	17	29	22	26	29	30	31	34	37	26	33	37	51	8	26
Foreign Government			3	1		1		1		1						0
Foreign Individuals	7	12	8	4	2	5	7	7	13	4	10	11	13	11	8	8

Part B

Ranked Listing of Organizations with Patent Grants

As Distributed By Year of Patent Grant

and As Distributed By Year of Patent Application

---- Organizational Patenting (Granted: Jan 01, 1977 - Dec 31, 2003) ---- Ranked List of Organizations with 5 or More Patents ----

	Pre	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	TOTAL
YODER BROTHERS, INC.																
Patents By Year of Grant:	203	14	47	18	38	53	22	29	36	26	22	14	77	87	41	727
Patents By Year of Application:	249	28	35	24	43	29	23	40	35	15	55	41	76	34	0	727
BEAR CREEK GARDENS, INC.																
Patents By Year of Grant:	9	2	15	14	13	61	29	17	4	15	29	53	2	0	0	263
Patents By Year of Application:	11	27	14	26	30	35	12	18	29	49	12	0	0	0	0	263
PAUL ECKE RANCH, INC.																
Patents By Year of Grant:	9	14	7	11	25	12	16	1	14	26	12	24	31	23	7	232
Patents By Year of Application:	26	15	8	18	11	16	4	22	19	33	32	4	17	7	0	232
CONARD-PYLE COMPANY																
Patents By Year of Grant:	89	21	12	9	24	13	10	16	14	7	1	0	0	0	0	216
Patents By Year of Application:	110	17	11	18	12	10	18	13	7	0	0	0	0	0	0	216
FLORFIS AG																
Patents By Year of Grant:	0	6	3	0	8	15	14	11	5	7	6	3	7	57	18	160
Patents By Year of Application:	9	0	7	1	15	18	10	8	8	9	9	16	39	11	0	160
JACKSON & PERKINS CO.																
Patents By Year of Grant:	146	10	1	0	0	0	0	0	0	0	0	0	0	0	0	157
Patents By Year of Application:	157	0	0	0	0	0	0	0	0	0	0	0	0	0	0	157
MIKKELSENS, INC.																
Patents By Year of Grant:	107	12	0	15	6	12	1	3	1	0	0	0	0	0	0	157
Patents By Year of Application:	119	13	2	6	12	1	4	0	0	0	0	0	0	0	0	157
OGLEVEE LTD.																
Patents By Year of Grant:	12	2	0	5	4	2	4	2	2	3	0	9	23	40	25	133
Patents By Year of Application:	14	1	7	1	0	6	4	3	0	9	6	49	20	13	0	133
BALL FLORAPLANT, A DIVISION OF BALL HORTICULTURAL CO.																
Patents By Year of Grant:	0	0	0	0	5	2	0	0	0	0	0	30	18	18	51	124
Patents By Year of Application:	0	0	0	7	0	0	0	0	0	16	32	1	19	49	0	124
PAN AMERICAN PLANT COMPANY																
Patents By Year of Grant:	116	0	0	0	0	0	0	0	0	0	0	0	0	0	0	116
Patents By Year of Application:	116	0	0	0	0	0	0	0	0	0	0	0	0	0	0	116
NOR'EAST MINIATURE ROSES, INC.																
Patents By Year of Grant:	67	1	5	5	7	4	1	6	5	4	2	2	1	2	0	112
Patents By Year of Application:	72	5	5	4	3	7	2	4	8	0	0	2	0	0	0	112

----- Organizational Patenting (Granted: Jan 01, 1977 - Dec 31, 2003) ----- Ranked List of Organizations with 5 or More Patents -----

	Pre 1990	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	TOTAL
CHRYSANTHEMUM BREEDERS ASSOCIATION N.V.																
Patents By Year of Grant:	30	0	0	0	2	9	0	0	3	3	0	9	1	37	11	105
Patents By Year of Application:	30	0	4	0	7	0	0	6	0	11	4	33	5	5	0	105
DEVOR NURSERIES, INC.																
Patents By Year of Grant:	11	0	16	18	5	4	10	13	5	7	5	3	0	0	0	97
Patents By Year of Application:	18	18	9	6	5	9	13	11	8	0	0	0	0	0	0	97
UNIVERSITY OF CALIFORNIA, THE REGENTS OF																
Patents By Year of Grant:	54	1	2	0	4	8	2	2	0	4	0	2	3	5	7	94
Patents By Year of Application:	55	2	3	1	8	2	2	4	0	2	2	2	9	2	0	94
VAN STAAVEREN B.V.																
Patents By Year of Grant:	15	0	5	17	4	12	6	4	4	10	9	7	0	1	0	94
Patents By Year of Application:	15	22	4	2	10	6	4	11	9	3	8	0	0	0	0	94
MELRIDGE, INC.																
Patents By Year of Grant:	83	0	0	0	0	0	0	0	0	0	0	0	0	0	0	83
Patents By Year of Application:	83	0	0	0	0	0	0	0	0	0	0	0	0	0	0	83
FIDES BEHEER B.V.																
Patents By Year of Grant:	33	0	0	14	23	1	2	1	2	3	0	2	0	0	0	81
Patents By Year of Application:	33	4	31	2	1	2	1	3	2	0	2	0	0	0	0	81
DANZIGER - "DAN" FLOWER FARM																
Patents By Year of Grant:	0	0	0	1	16	2	20	4	0	7	5	1	12	4	7	79
Patents By Year of Application:	0	0	17	2	0	21	3	7	5	2	11	2	6	3	0	79
GESSELLSCHAFTSVERTRAG UBER DIE ERFINDERGEMEINSCHAFT "OPTI																
Patents By Year of Grant:	77	0	0	0	0	0	0	0	0	0	0	0	0	0	0	77
Patents By Year of Application:	77	0	0	0	0	0	0	0	0	0	0	0	0	0	0	77
CLEANGRO, LTD.																
Patents By Year of Grant:	0	0	0	0	0	3	0	0	15	14	11	23	2	1	5	74
Patents By Year of Application:	0	0	0	2	1	1	0	25	14	25	0	0	6	0	0	74
TERRA-NOVA NURSERIES, INC.																
Patents By Year of Grant:	0	0	0	0	0	3	0	0	0	1	2	12	9	30	12	69
Patents By Year of Application:	0	0	0	0	3	0	0	0	2	13	12	10	19	9	1	69
DUMMEN JUNGPFANZENKULTUREN																
Patents By Year of Grant:	0	0	0	0	0	0	0	19	6	0	6	17	1	18	0	67
Patents By Year of Application:	0	0	0	0	0	0	20	6	0	21	1	8	7	4	0	67

---- Organizational Patenting (Granted: Jan 01, 1977 - Dec 31, 2003) ---- Ranked List of Organizations with 5 or More Patents ----

	Pre 1990	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	TOTAL
LABORATOIRE DE PHYSIOLOGIE VEGETALE DE LA LONDE																
Patents By Year of Grant:	49	11	0	0	1	4	1	0	0	0	0	0	0	0	0	66
Patents By Year of Application:	60	0	1	4	0	1	0	0	0	0	0	0	0	0	0	66
JACKSON & PERKINS WHOLESALE, INC.																
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	0	0	31	24	9	64
Patents By Year of Application:	0	0	0	0	0	0	0	0	0	0	35	16	10	3	0	64
WEEKS WHOLESALE ROSE GROWERS, INC.																
Patents By Year of Grant:	3	0	1	2	3	0	10	7	4	7	3	5	0	9	10	64
Patents By Year of Application:	3	1	3	2	2	8	7	6	6	7	1	6	11	1	0	64
DE RUITER'S NIEUWE ROZEN B.V.																
Patents By Year of Grant:	5	1	7	0	3	6	5	9	0	10	7	3	0	5	0	61
Patents By Year of Application:	11	2	3	6	1	2	11	4	13	3	0	5	0	0	0	61
GEORGE J. BALL, INC.																
Patents By Year of Grant:	7	0	3	0	13	4	12	22	0	0	0	0	0	0	0	61
Patents By Year of Application:	7	3	7	7	3	12	22	0	0	0	0	0	0	0	0	61
DAVID AUSTIN ROSES LIMITED																
Patents By Year of Grant:	0	4	3	0	9	20	0	5	0	3	3	4	0	2	5	58
Patents By Year of Application:	7	9	0	11	5	4	5	0	6	4	0	3	4	0	0	58
SUNTORY LTD.																
Patents By Year of Grant:	3	0	0	0	0	2	7	3	3	10	10	4	6	0	10	58
Patents By Year of Application:	3	0	0	0	0	5	10	11	9	4	8	0	6	2	0	58
ARMSTRONG NURSERIES, INC.																
Patents By Year of Grant:	57	0	0	0	0	0	0	0	0	0	0	0	0	0	0	57
Patents By Year of Application:	57	0	0	0	0	0	0	0	0	0	0	0	0	0	0	57
BALL PANAM PLANT COMPANY																
Patents By Year of Grant:	56	0	0	0	0	0	0	0	0	0	0	0	0	0	0	56
Patents By Year of Application:	56	0	0	0	0	0	0	0	0	0	0	0	0	0	0	56
CALIFORNIA FLORIDA PLANT COMPANY L.P.																
Patents By Year of Grant:	0	0	3	8	21	0	5	0	4	8	0	0	6	0	0	55
Patents By Year of Application:	0	10	9	12	1	5	0	12	0	6	0	0	0	0	0	55
GOLDSMITH SEEDS, INC.																
Patents By Year of Grant:	0	0	0	13	0	3	6	0	0	2	3	0	1	0	27	55
Patents By Year of Application:	0	0	13	0	3	5	1	2	3	1	0	0	0	9	18	55

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(Granted: Jan 01, 1977 - Dec 31, 2003) ---- Ranked List of Organizations with 5 or More Patents ----

	Pre	1990	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	TOTAL
JOHN BODGER & SONS CO.																	
Patents By Year of Grant:	0	0	0	0	0	0	0	2	0	7	21	6	4	7	8	0	55
Patents By Year of Application:	0	0	0	0	0	0	2	7	17	10	11	0	1	7	0	0	55
DUMMEN JUNGPFANZEN GBR																	
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	47	52
Patents By Year of Application:	0	0	0	0	0	0	0	0	0	0	0	0	0	13	39	0	52
RIJNPLANT																	
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	3	9	13	8	16	2	51
Patents By Year of Application:	0	0	0	0	0	0	0	0	2	4	17	9	3	14	2	0	51
CP (DELAWARE), INC.																	
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	5	5	5	4	12	18	49
Patents By Year of Application:	0	0	0	0	0	0	0	0	0	8	7	5	9	14	5	1	49
DRISCOLL STRAWBERRY ASSOCIATES INC.																	
Patents By Year of Grant:	17	2	1	0	0	3	1	0	0	0	3	1	6	1	5	6	46
Patents By Year of Application:	20	0	0	0	3	1	0	2	6	2	2	3	3	6	0	0	46
MONROVIA NURSERY CO.																	
Patents By Year of Grant:	20	1	0	1	0	2	0	2	2	2	2	3	3	3	1	4	44
Patents By Year of Application:	21	1	0	0	2	0	2	4	4	4	4	1	1	2	2	0	44
TWYFORD INTERNATIONAL, INC.																	
Patents By Year of Grant:	0	0	0	0	0	7	3	8	9	2	2	1	0	0	8	6	44
Patents By Year of Application:	0	0	0	1	6	4	9	8	2	0	0	0	2	6	6	0	44
SAKATA SEED CORPORATION																	
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	2	0	0	0	8	14	19	43
Patents By Year of Application:	0	0	0	0	0	0	0	0	2	0	0	14	8	12	7	0	43
POULSEN ROSER APS																	
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	10	5	19	2	2	3	41
Patents By Year of Application:	0	0	0	0	0	0	0	0	0	15	20	4	0	1	1	0	41
TERRA NIGRA HOLDING B.V.																	
Patents By Year of Grant:	0	0	0	10	0	12	5	0	9	0	0	1	4	0	0	0	41
Patents By Year of Application:	0	3	7	7	9	1	4	5	0	0	5	0	0	0	0	0	41
KIEFT SEED HOLLAND																	
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	12	36
Patents By Year of Application:	0	0	0	0	0	0	0	0	0	0	0	0	0	24	12	0	36

---- Organizational Patenting (Granted: Jan 01, 1977 - Dec 31, 2003) ---- Ranked List of Organizations with 5 or More Patents ----

	Pre	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	TOTAL
KLEMM & SOHN																
Patents By Year of Grant:	9	3	2	2	2	8	2	0	0	0	0	7	0	1	0	36
Patents By Year of Application:	14	2	2	2	8	0	0	0	0	5	3	0	0	0	0	36
KLEMM + SOHN GMBH & CO. KG																
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	0	0	0	14	21	35
Patents By Year of Application:	0	0	0	0	0	0	0	0	0	0	0	0	21	14	0	35
OGLEVEE ASSOCIATES, INC.																
Patents By Year of Grant:	34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	34
Patents By Year of Application:	34	0	0	0	0	0	0	0	0	0	0	0	0	0	0	34
RUTGERS UNIVERSITY																
Patents By Year of Grant:	14	7	2	0	4	2	2	0	0	0	0	3	0	0	0	34
Patents By Year of Application:	21	2	4	3	0	1	0	0	0	3	0	0	0	0	0	34
FUTURE PLANTS V.O.F.																
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	0	3	10	11	9	33
Patents By Year of Application:	0	0	0	0	0	0	0	0	0	3	11	9	2	8	0	33
STARK BROTHERS NURSERIES & ORCHARDS COMPANY																
Patents By Year of Grant:	29	0	0	0	0	2	2	0	0	0	0	0	0	0	0	33
Patents By Year of Application:	29	0	0	1	1	2	0	0	0	0	0	0	0	0	0	33
SEQUOIA NURSERY																
Patents By Year of Grant:	23	1	0	3	5	0	0	0	0	0	0	0	0	0	0	32
Patents By Year of Application:	24	0	7	1	0	0	0	0	0	0	0	0	0	0	0	32
BALL SEED CO., A DIVISION OF GEO. J. BALL, INC.																
Patents By Year of Grant:	16	0	3	3	1	2	6	0	0	0	0	0	0	0	0	31
Patents By Year of Application:	16	6	0	1	0	5	3	0	0	0	0	0	0	0	0	31
BURCHELL NURSERY, INC.																
Patents By Year of Grant:	5	0	0	0	0	0	0	0	0	1	1	0	2	10	12	31
Patents By Year of Application:	5	0	0	0	0	0	0	0	2	0	7	3	5	8	1	31
ELSNER PAC JUNGPLANZEN																
Patents By Year of Grant:	0	0	0	0	0	0	0	0	2	4	1	1	0	10	13	31
Patents By Year of Application:	0	0	0	0	0	0	2	4	2	0	0	10	0	13	0	31
PIETERS PLANT PRODUCTION, BVBA																
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	30
Patents By Year of Application:	0	0	0	0	0	0	0	0	0	0	0	0	21	9	0	30

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(Granted: Jan 01, 1977 - Dec 31, 2003) ---- Ranked List of Organizations with 5 or More Patents ----

	Pre 1990	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	TOTAL
FA. GEER. VERWER																
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	10	0	9	2	7	1	29
Patents By Year of Application:	0	0	0	0	0	0	0	0	10	9	2	3	4	1	0	29
KNUD JEPSEN A/S																
Patents By Year of Grant:	0	0	0	0	0	0	0	4	0	6	0	3	9	3	4	29
Patents By Year of Application:	0	0	0	0	0	0	4	5	1	3	4	0	8	4	0	29
GOLDSMITH PLANTS, INC.																
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	0	10	5	13	0	28
Patents By Year of Application:	0	0	0	0	0	0	0	0	0	12	5	2	9	0	0	28
HINES NURSERIES INC.																
Patents By Year of Grant:	0	0	3	0	0	1	1	0	0	0	0	0	9	5	8	27
Patents By Year of Application:	3	0	0	1	0	1	0	0	0	0	10	8	0	4	0	27
SUNSHINE FOLIAGE WORLD																
Patents By Year of Grant:	0	0	0	0	0	3	4	2	1	7	6	2	1	0	1	27
Patents By Year of Application:	0	0	0	0	3	4	2	7	3	6	1	0	0	1	0	27
TWYFORD PLANT LABORATORIES, INC.																
Patents By Year of Grant:	0	8	1	0	0	0	0	0	0	0	0	0	4	14	0	27
Patents By Year of Application:	9	0	0	0	0	0	0	0	0	0	1	17	0	0	0	27
CORNELL RESEARCH FOUNDATION INC.																
Patents By Year of Grant:	8	1	0	2	0	2	0	1	0	0	7	0	2	1	2	26
Patents By Year of Application:	9	2	1	0	2	0	0	0	7	2	1	0	2	0	0	26
PLANT DEVELOPMENT SERVICES INC.																
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	1	4	12	3	6	26
Patents By Year of Application:	0	0	0	0	0	0	0	1	0	6	6	5	3	4	1	26
PURDUE RESEARCH FOUNDATION																
Patents By Year of Grant:	19	0	0	0	0	0	2	0	1	0	0	0	0	1	3	26
Patents By Year of Application:	19	0	0	0	2	0	1	0	0	1	0	0	3	0	0	26
BLOOMS OF BRESSINGHAM LTD.																
Patents By Year of Grant:	0	1	1	0	2	3	1	0	1	3	2	4	2	4	1	25
Patents By Year of Application:	2	0	2	0	3	1	1	0	7	3	2	1	2	1	0	25
CEBECO LILIES, INC.																
Patents By Year of Grant:	0	0	0	1	0	1	8	0	0	9	5	0	0	0	0	24
Patents By Year of Application:	0	1	0	1	0	8	0	4	10	0	0	0	0	0	0	24

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	Pre 1990	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	TOTAL
GEBR. KOLSTER B.V.																
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	0	0	0	5	18	23
Patents By Year of Application:	0	0	0	0	0	0	0	0	0	0	0	0	17	6	0	23
GEBR. VLETTER & J.A. DEN HAAN																
Patents By Year of Grant:	0	5	0	0	17	1	0	0	0	0	0	0	0	0	0	23
Patents By Year of Application:	5	0	18	0	0	0	0	0	0	0	0	0	0	0	0	23
SELECTION NEW PLANT SARL																
Patents By Year of Grant:	0	0	0	0	0	0	0	11	6	2	0	2	0	2	0	23
Patents By Year of Application:	0	0	0	0	0	11	0	7	1	2	1	1	0	0	0	23
ETS. GUILLOU FRERES																
Patents By Year of Grant:	0	7	2	0	0	0	2	2	2	1	4	0	0	2	0	22
Patents By Year of Application:	7	2	0	0	0	2	3	5	1	0	2	0	0	0	0	22
BALL HORTICULTURAL COMPANY																
Patents By Year of Grant:	0	0	0	0	0	0	0	0	13	5	0	0	0	2	1	21
Patents By Year of Application:	0	0	0	0	0	0	0	18	0	0	1	1	1	0	0	21
CORN. BAK B.V.																
Patents By Year of Grant:	0	0	3	0	2	3	0	1	0	2	4	0	2	4	0	21
Patents By Year of Application:	1	2	1	1	2	2	0	1	5	0	4	2	0	0	0	21
FLORIDA FOUNDATION SEED PRODUCERS, INC.																
Patents By Year of Grant:	0	0	0	0	0	2	4	2	2	1	0	0	1	6	3	21
Patents By Year of Application:	0	0	0	2	3	3	1	2	0	0	4	0	3	3	0	21
INNOVAPLANT GMBH & CO. KG																
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	2	1	1	3	1	13	21
Patents By Year of Application:	0	0	0	0	0	0	0	2	0	2	2	2	0	13	0	21
NUFLORA INTERNATIONAL PTY. LTD.																
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	0	0	0	9	12	21
Patents By Year of Application:	0	0	0	0	0	0	0	0	0	0	0	0	10	11	0	21
OGLESBY PLANTS INTERNATIONAL, INC.																
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	1	5	1	7	4	3	21
Patents By Year of Application:	0	0	0	0	0	0	0	0	5	1	4	4	6	1	0	21
HER MAJESTY THE QUEEN IN RIGHT OF CANADA, AS REPRESENTED BY THE MINISTER OF AGRICULTURE																
Patents By Year of Grant:	0	0	0	2	0	0	5	0	4	0	1	3	3	1	1	20
Patents By Year of Application:	0	0	2	0	1	4	0	4	1	4	2	0	2	0	0	20

(Granted: Jan 01, 1977 - Dec 31, 2003) ---- Ranked List of Organizations with 5 or More Patents ----

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---- Organizational Patenting (Granted: Jan 01, 1977 - Dec 31, 2003) ---- Ranked List of Organizations with 5 or More Patents ----

	Pre															
	1990	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	TOTAL
BAY CITY FLOWER COMPANY, INC.																
Patents By Year of Grant:	1	1	1	1	0	1	0	5	1	2	1	0	1	0	1	16
Patents By Year of Application:	3	0	1	1	0	1	4	1	3	1	0	0	1	0	0	16
ENTHOVEN BREEDING B.V.																
Patents By Year of Grant:	0	0	0	0	0	0	8	0	0	6	2	0	0	0	0	16
Patents By Year of Application:	0	0	0	0	0	8	0	6	0	2	0	0	0	0	0	16
PLANT COMPANY																
Patents By Year of Grant:	0	0	8	5	0	0	0	0	0	0	3	0	0	0	0	16
Patents By Year of Application:	8	5	0	0	0	0	0	0	3	0	0	0	0	0	0	16
SYNGENTA SEEDS B.V.																
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	0	0	6	6	4	16
Patents By Year of Application:	0	0	0	0	0	0	0	0	0	0	2	5	5	3	1	16
UNIVERSITY OF ARKANSAS																
Patents By Year of Grant:	3	0	0	0	4	0	0	0	2	0	0	0	3	4	0	16
Patents By Year of Application:	3	0	0	4	0	0	1	1	0	0	4	3	0	0	0	16
FISCHER GERANIUMS, INC.																
Patents By Year of Grant:	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15
Patents By Year of Application:	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15
INTERNATIONAL PLANT BREEDING AG																
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	11	0	0	0	0	4	15
Patents By Year of Application:	0	0	0	0	0	0	0	0	11	0	0	0	0	4	0	15
JOSEF & HEINRICH WESTHOFF GARTENBAU-SPEZIALKULTUREN																
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	0	3	0	7	5	15
Patents By Year of Application:	0	0	0	0	0	0	0	0	0	3	1	2	4	5	0	15
SAN JOAQUIN ROSE CO.																
Patents By Year of Grant:	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15
Patents By Year of Application:	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15
BAILEY NURSERIES, INC.																
Patents By Year of Grant:	3	0	0	0	1	1	0	0	1	1	1	0	2	2	2	14
Patents By Year of Application:	3	0	1	1	0	0	0	1	1	1	2	2	1	1	0	14
E. G. HILL CO., INC.																
Patents By Year of Grant:	11	0	0	0	2	0	0	0	0	0	0	0	1	0	0	14
Patents By Year of Application:	11	0	0	2	0	0	0	0	0	0	1	0	0	0	0	14

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	Pre 1990	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	TOTAL
SPRING MEADOW NURSERY, INC.																
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	1	2	0	2	7	1	13
Patents By Year of Application:	0	0	0	0	0	0	0	0	2	1	2	5	2	1	0	13
TREE INTRODUCTIONS, INC.																
Patents By Year of Grant:	0	0	2	0	0	0	0	0	0	0	0	5	1	0	5	13
Patents By Year of Application:	2	0	0	0	0	0	0	0	1	4	1	0	4	1	0	13
TREESEARCH (PARTNERSHIP)																
Patents By Year of Grant:	7	0	0	0	0	0	0	0	0	1	2	0	2	1	0	13
Patents By Year of Application:	7	0	0	0	0	0	0	1	2	0	1	2	0	0	0	13
ADAMS COUNTY NURSERY, INC.																
Patents By Year of Grant:	5	0	0	0	0	0	0	0	1	1	3	2	0	0	0	12
Patents By Year of Application:	5	0	0	0	0	0	1	0	4	2	0	0	0	0	0	12
GREEN CIRCLE GROWERS, INC.																
Patents By Year of Grant:	0	0	0	0	0	0	0	0	11	1	0	0	0	0	0	12
Patents By Year of Application:	0	0	0	0	0	0	0	12	0	0	0	0	0	0	0	12
HEM GENETICS BV																
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	0	0	0	3	9	12
Patents By Year of Application:	0	0	0	0	0	0	0	0	0	0	0	0	3	9	0	12
HILVERDA B.V.																
Patents By Year of Grant:	4	4	4	0	0	0	0	0	0	0	0	0	0	0	0	12
Patents By Year of Application:	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
IOWA STATE UNIVERSITY RESEARCH FOUNDATION INC.																
Patents By Year of Grant:	11	0	0	0	0	0	0	0	0	0	0	0	0	1	0	12
Patents By Year of Application:	11	0	0	0	0	0	0	0	0	0	1	0	0	0	0	12
SIRI BROTHERS NURSERY, INC.																
Patents By Year of Grant:	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
Patents By Year of Application:	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12
SOCIETE ANONYME DES PEPINIERES ET ROSERAIES GEORGES DELBARD																
Patents By Year of Grant:	0	0	0	0	0	0	0	0	1	4	0	3	0	3	1	12
Patents By Year of Application:	0	0	0	0	0	0	0	2	3	3	0	3	1	0	0	12
STATE OF ISRAEL, MINISTRY OF AGRICULTURE, AGRICULTURAL RESEARCH ORGANIZATION, THE VOLCANI CENTER																
Patents By Year of Grant:	0	0	0	4	2	3	0	0	0	0	1	2	0	0	0	12
Patents By Year of Application:	0	0	6	3	0	0	0	0	3	0	0	0	0	0	0	12

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(Granted: Jan 01, 1977 - Dec 31, 2003) ---- Ranked List of Organizations with 5 or More Patents ----

	Pre																
	1990	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	TOTAL	
UNITED STATES OF AMERICA, DEPARTMENT OF AGRICULTURE																	
Patents By Year of Grant:	0	0	1	0	0	0	0	0	2	0	1	0	0	8	0	12	
Patents By Year of Application:	1	0	0	0	0	0	1	1	1	0	1	2	5	0	0	12	
WIESMOOR-GARTNEREI UND BAUMSCHULE GMBH																	
Patents By Year of Grant:	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	
Patents By Year of Application:	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	12	
WOLFGANG BOCK PFLANZENEXPORT KG																	
Patents By Year of Grant:	0	0	0	0	0	0	0	0	3	5	4	0	0	0	0	12	
Patents By Year of Application:	0	0	0	0	0	0	3	3	6	0	0	0	0	0	0	12	
BEGONIA BREEDERS ASSOC. B.V.																	
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	7	3	0	0	0	1	11	
Patents By Year of Application:	0	0	0	0	0	0	0	0	10	0	0	0	0	1	0	11	
D. S. COLE GROWERS, INC.																	
Patents By Year of Grant:	0	0	0	0	0	0	2	1	1	1	1	0	0	5	0	11	
Patents By Year of Application:	0	0	0	0	0	2	1	1	2	0	0	5	0	0	0	11	
DENACHTVLINDER B.V.																	
Patents By Year of Grant:	0	0	0	0	0	2	0	0	1	3	1	0	1	3	0	11	
Patents By Year of Application:	0	0	0	0	2	0	0	4	1	0	4	0	0	0	0	11	
FRUIT TREE RESEARCH STATION, MINISTRY OF AGRICULTURE, FORESTRY AND FISHERIES																	
Patents By Year of Grant:	3	0	1	0	3	1	2	1	0	0	0	0	0	0	0	11	
Patents By Year of Application:	3	1	2	2	0	2	1	0	0	0	0	0	0	0	0	11	
HARTMAN PLANT LABORATORIES, INC.																	
Patents By Year of Grant:	6	2	3	0	0	0	0	0	0	0	0	0	0	0	0	11	
Patents By Year of Application:	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	
HOFFGAARDE B.V.																	
Patents By Year of Grant:	0	2	0	0	0	1	7	0	0	0	1	0	0	0	0	11	
Patents By Year of Application:	2	0	0	0	0	8	0	0	1	0	0	0	0	0	0	11	
INTER-PLANT PATENT MARKETING, INC.																	
Patents By Year of Grant:	0	0	0	3	1	3	0	4	0	0	0	0	0	0	0	11	
Patents By Year of Application:	3	0	2	2	0	0	4	0	0	0	0	0	0	0	0	11	
INTERNATIONAL PLANT MANAGEMENT, INC.																	
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	8	0	0	0	2	1	11	
Patents By Year of Application:	0	0	0	0	0	0	0	8	0	0	0	2	1	0	0	11	

---- Organizational Patenting (Granted: Jan 01, 1977 - Dec 31, 2003) ---- Ranked List of Organizations with 5 or More Patents ----

	Pre	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	TOTAL
JOSEPH H. HILL COMPANY																
Patents By Year of Grant:	10	0	0	0	1	0	0	0	0	0	0	0	0	0	0	11
Patents By Year of Application:	10	0	1	0	0	0	0	0	0	0	0	0	0	0	0	11
L. DAEHNFELDT A/S																
Patents By Year of Grant:	9	0	0	0	0	0	0	2	0	0	0	0	0	0	0	11
Patents By Year of Application:	9	0	0	0	0	0	2	0	0	0	0	0	0	0	0	11
OUTBACK PLANTS PTY. LTD.																
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	2	4	3	1	1	11
Patents By Year of Application:	0	0	0	0	0	0	0	0	2	4	0	3	1	1	0	11
RESEARCH CORPORATION																
Patents By Year of Grant:	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11
Patents By Year of Application:	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11
STATE OF ISRAEL - MINISTRY OF AGRICULTURE AND RURAL DEVELOPMENT																
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	11
Patents By Year of Application:	0	0	0	0	0	0	0	0	0	0	0	11	0	0	0	11
SUN WORLD, INC.																
Patents By Year of Grant:	0	0	3	0	4	0	0	0	1	3	0	0	0	0	0	11
Patents By Year of Application:	0	3	2	2	0	0	0	4	0	0	0	0	0	0	0	11
ASTERKLUBBEN																
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	6	0	0	0	4	0	10
Patents By Year of Application:	0	0	0	0	0	0	0	6	0	0	0	0	0	4	0	10
BARTELS BREEDING B.V.																
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	0	1	4	5	0	10
Patents By Year of Application:	0	0	0	0	0	0	0	0	0	1	6	2	1	0	0	10
CHOPIN & WRIGHT NURSERY, LTD.																
Patents By Year of Grant:	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Patents By Year of Application:	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
CLEARWATER NURSERY, INC.																
Patents By Year of Grant:	0	0	0	0	0	2	2	3	0	2	1	0	0	0	0	10
Patents By Year of Application:	0	0	0	1	1	2	3	2	1	0	0	0	0	0	0	10
GILBERG PERENNIAL FARMS, INC.																
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	3	1	2	0	4	10
Patents By Year of Application:	0	0	0	0	0	0	0	0	0	4	2	4	0	0	0	10

----- Organizational Patenting (Granted: Jan 01, 1977 - Dec 31, 2003) ----- Ranked List of Organizations with 5 or More Patents -----

	Pre 1990	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	TOTAL
H. P. METZLER & SONS, INC.																
Patents By Year of Grant:	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Patents By Year of Application:	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10
UNIVERSITY OF SYDNEY PLANT BREEDING INSTITUTE, COBBITTY																
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	3	3	4	0	0	10
Patents By Year of Application:	0	0	0	0	0	0	0	0	3	3	4	0	0	0	0	10
WASHINGTON STATE UNIVERSITY RESEARCH FOUNDATION, INC.																
Patents By Year of Grant:	3	0	0	2	0	1	1	0	0	1	0	1	1	0	0	10
Patents By Year of Application:	3	0	2	1	0	1	0	0	1	2	0	0	0	0	0	10
WITTEMAN + CO.`MULTIFLORA` B.V.																
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	0	0	2	7	1	10
Patents By Year of Application:	0	0	0	0	0	0	0	0	0	0	0	3	6	1	0	10
DENHOLM SEEDS, INC.																
Patents By Year of Grant:	7	0	1	1	0	0	0	0	0	0	0	0	0	0	0	9
Patents By Year of Application:	7	1	1	0	0	0	0	0	0	0	0	0	0	0	0	9
GOLDSTOCK BREEDING LIMITED																
Patents By Year of Grant:	0	0	0	0	0	5	4	0	0	0	0	0	0	0	0	9
Patents By Year of Application:	0	0	0	3	2	4	0	0	0	0	0	0	0	0	0	9
JOHN I. HAAS, INC.																
Patents By Year of Grant:	0	0	0	0	0	3	0	0	1	0	0	1	0	4	0	9
Patents By Year of Application:	0	0	0	3	0	0	0	2	0	0	4	0	0	0	0	9
KOPPE VEREDELING B.V.																
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	2	1	1	2	3	9
Patents By Year of Application:	0	0	0	0	0	0	0	0	0	3	1	2	0	3	0	9
MITSUWA NURSERY, INC.																
Patents By Year of Grant:	4	1	3	0	1	0	0	0	0	0	0	0	0	0	0	9
Patents By Year of Application:	7	1	1	0	0	0	0	0	0	0	0	0	0	0	0	9
NATIVE PLANTS, INC.																
Patents By Year of Grant:	0	0	7	2	0	0	0	0	0	0	0	0	0	0	0	9
Patents By Year of Application:	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	9
PLANTAS DE NAVARRA S.A.																
Patents By Year of Grant:	0	0	0	2	0	3	0	2	0	0	1	0	0	0	1	9
Patents By Year of Application:	0	2	0	3	0	0	2	0	1	0	0	0	1	0	0	9

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	Pre 1990	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	TOTAL
SWEETBRIAR DEVELOPMENT INC.																
Patents By Year of Grant:	0	0	0	2	0	0	1	2	0	0	4	0	0	0	0	9
Patents By Year of Application:	0	0	2	0	0	1	2	0	0	4	0	0	0	0	0	9
WEYERHAEUSER COMPANY																
Patents By Year of Grant:	8	1	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Patents By Year of Application:	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
CO-OPERATIVE ROSE GROWERS, INC.																
Patents By Year of Grant:	5	1	0	2	0	0	0	0	0	0	0	0	0	0	0	8
Patents By Year of Application:	6	0	2	0	0	0	0	0	0	0	0	0	0	0	0	8
COLORADO STATE UNIVERSITY RESEARCH FOUNDATION																
Patents By Year of Grant:	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Patents By Year of Application:	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
FIDES, HANDELSKWEKERIJ																
Patents By Year of Grant:	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Patents By Year of Application:	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
GOLDEN STATE BULB GROWERS																
Patents By Year of Grant:	0	0	2	0	2	0	0	0	0	0	0	0	0	4	0	8
Patents By Year of Application:	0	2	0	2	0	0	0	0	0	0	0	4	0	0	0	8
MIYOSHI & CO. LTD.																
Patents By Year of Grant:	0	0	0	0	0	0	0	3	0	4	0	0	0	0	1	8
Patents By Year of Application:	0	0	0	0	0	0	3	4	0	0	0	0	0	1	0	8
MOZANT LLC																
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	0	0	1	3	4	8
Patents By Year of Application:	0	0	0	0	0	0	0	0	0	0	1	3	4	0	0	8
NEW PLANTS																
Patents By Year of Grant:	4	4	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Patents By Year of Application:	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
PELARGONIEN-FISCHER KG																
Patents By Year of Grant:	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Patents By Year of Application:	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
TEXAS A&M UNIVERSITY SYSTEM																
Patents By Year of Grant:	0	0	1	0	0	0	0	0	0	1	1	2	0	1	2	8
Patents By Year of Application:	1	0	0	0	0	0	0	0	2	2	0	1	0	2	0	8

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(Granted: Jan 01, 1977 - Dec 31, 2003) ---- Ranked List of Organizations with 5 or More Patents ----

	Pre															
	1990	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	TOTAL
UNIVERSITY OF TENNESSEE RESEARCH CORPORATION																
Patents By Year of Grant:	0	0	5	0	0	0	0	0	0	0	0	0	0	3	0	8
Patents By Year of Application:	5	0	0	0	0	0	0	0	0	0	0	3	0	0	0	8
COLOR SPOT NURSERIES, INC.																
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	1	4	1	1	0	7
Patents By Year of Application:	0	0	0	0	0	0	0	0	2	3	0	1	1	0	0	7
DEROOSE PLANTS BVBA																
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	0	0	7	0	0	7
Patents By Year of Application:	0	0	0	0	0	0	0	0	0	0	7	0	0	0	0	7
FLORANOVA LTD.																
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	7
Patents By Year of Application:	0	0	0	0	0	0	0	0	0	0	0	0	0	7	0	7
GROOT ASSOCIATES II																
Patents By Year of Grant:	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Patents By Year of Application:	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
L. DAEHNFELDT LTD.																
Patents By Year of Grant:	6	0	0	1	0	0	0	0	0	0	0	0	0	0	0	7
Patents By Year of Application:	6	1	0	0	0	0	0	0	0	0	0	0	0	0	0	7
P. KOOLIJ + ZONEN B.V.																
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	0	0	3	4	0	7
Patents By Year of Application:	0	0	0	0	0	0	0	0	0	0	7	0	0	0	0	7
REEDLEY NURSERY, INC.																
Patents By Year of Grant:	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
Patents By Year of Application:	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
SAKATA SEED AMERICA, INC.																
Patents By Year of Grant:	3	0	0	0	0	0	0	0	0	3	1	0	0	0	0	7
Patents By Year of Application:	3	0	0	0	0	0	0	4	0	0	0	0	0	0	0	7
STEWART ORCHIDS																
Patents By Year of Grant:	4	2	0	0	1	0	0	0	0	0	0	0	0	0	0	7
Patents By Year of Application:	6	0	1	0	0	0	0	0	0	0	0	0	0	0	0	7
UNIVERSITY OF GEORGIA RESEARCH FOUNDATION, INC.																
Patents By Year of Grant:	0	0	0	0	0	0	0	0	2	0	0	2	0	3	0	7
Patents By Year of Application:	0	0	0	0	0	0	2	0	1	1	0	3	0	0	0	7

[illegible]

---- Organizational Patenting (Granted: Jan 01, 1977 - Dec 31, 2003) ---- Ranked List of Organizations with 5 or More Patents ----

	Pre 1990	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	TOTAL
KOALA BLOOMS PTY. LTD.																
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	6	0	0	0	0	0	6
Patents By Year of Application:	0	0	0	0	0	0	0	6	0	0	0	0	0	0	0	6
METZLER INVESTMENTS																
Patents By Year of Grant:	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Patents By Year of Application:	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
NATIONAL SEED DEVELOPMENT ORGANISATION LIMITED																
Patents By Year of Grant:	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Patents By Year of Application:	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
NOVARTIS SEEDS B.V.																
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	3	1	0	2	0	6
Patents By Year of Application:	0	0	0	0	0	0	0	0	4	0	0	2	0	0	0	6
OKANAGAN PLANT IMPROVEMENT CO.LTD.																
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	3	1	2	0	0	0	6
Patents By Year of Application:	0	0	0	0	0	0	0	0	4	2	0	0	0	0	0	6
POULSEN ROSER INTERNATIONAL S.A.R.L.																
Patents By Year of Grant:	0	0	0	0	0	0	0	0	1	1	3	0	0	1	0	6
Patents By Year of Application:	0	0	0	0	0	0	0	2	3	1	0	0	0	0	0	6
ROSES BY FRED EDMUNDS, INC.																
Patents By Year of Grant:	0	0	1	2	3	0	0	0	0	0	0	0	0	0	0	6
Patents By Year of Application:	0	1	3	2	0	0	0	0	0	0	0	0	0	0	0	6
BIOTECH PLANTS PTY. LTD.																
Patents By Year of Grant:	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Patents By Year of Application:	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
BODGER SEEDS, LTD.																
Patents By Year of Grant:	0	4	0	0	1	0	0	0	0	0	0	0	0	0	0	5
Patents By Year of Application:	4	0	0	1	0	0	0	0	0	0	0	0	0	0	0	5
CARLTON NURSERY COMPANY, INC.																
Patents By Year of Grant:	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Patents By Year of Application:	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
CENTERTON NURSERY, INC.																
Patents By Year of Grant:	0	0	0	0	0	0	0	0	1	0	0	0	0	0	4	5
Patents By Year of Application:	0	0	0	0	0	0	1	0	0	0	0	0	4	0	0	5

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	Pre 1990	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	TOTAL
CHAS. KLEHM & SON																
Patents By Year of Grant:	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Patents By Year of Application:	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
COLUMBIA & OKANOGAN NURSERY, INC.																
Patents By Year of Grant:	2	1	0	0	0	0	0	1	0	0	0	1	0	0	0	5
Patents By Year of Application:	3	0	0	0	0	0	1	0	1	0	0	0	0	0	0	5
DELEON'S BROMELIAD WORLD, INC.																
Patents By Year of Grant:	0	0	0	2	0	0	0	0	0	3	0	0	0	0	0	5
Patents By Year of Application:	0	2	0	0	0	0	0	0	3	0	0	0	0	0	0	5
DELIFLOR CHRYSANTEN B.V.																
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	0	0	1	1	3	5
Patents By Year of Application:	0	0	0	0	0	0	0	0	0	0	1	1	1	2	0	5
ETABLISSEMENTS BARBERET ET BLANC																
Patents By Year of Grant:	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Patents By Year of Application:	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
FLOWERWOOD NURSERY INC.																
Patents By Year of Grant:	0	0	0	0	1	1	3	0	0	0	0	0	0	0	0	5
Patents By Year of Application:	0	0	0	1	1	1	2	0	0	0	0	0	0	0	0	5
FRAMPTONS NURSERIES LIMITED																
Patents By Year of Grant:	2	3	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Patents By Year of Application:	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
H. DE MEYER - DE ROUCK B.V.B.A.																
Patents By Year of Grant:	0	0	0	0	0	4	0	0	1	0	0	0	0	0	0	5
Patents By Year of Application:	0	0	0	1	3	0	1	0	0	0	0	0	0	0	0	5
HOKUETSU NOHJI CO., LTD.																
Patents By Year of Grant:	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	5
Patents By Year of Application:	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	5
KEISEI ROSE NURSERIES, INC.																
Patents By Year of Grant:	0	0	0	0	1	1	0	0	0	0	1	0	0	0	2	5
Patents By Year of Application:	0	0	0	2	0	0	0	1	0	0	0	0	2	0	0	5
KONINKLIJKE VAN ZANTEN B.V.																
Patents By Year of Grant:	0	0	0	0	0	1	0	0	0	0	0	3	1	0	0	5
Patents By Year of Application:	0	0	0	1	0	0	0	0	0	4	0	0	0	0	0	5

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(Granted: Jan 01, 1977 - Dec 31, 2003) ---- Ranked List of Organizations with 5 or More Patents ----

	Pre															
	1990	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	TOTAL
M. LEK EN ZONEN, B.V.																
Patents By Year of Grant:	3	0	0	0	0	0	0	2	0	0	0	0	0	0	0	5
Patents By Year of Application:	3	0	0	0	0	0	2	0	0	0	0	0	0	0	0	5
MT. HOOD LILIES, INC.																
Patents By Year of Grant:	0	0	0	0	0	5	0	0	0	0	0	0	0	0	0	5
Patents By Year of Application:	0	0	0	0	4	1	0	0	0	0	0	0	0	0	0	5
NAKAJIMA TENKOEN CO., LTD.																
Patents By Year of Grant:	0	0	0	4	0	0	0	0	0	0	0	1	0	0	0	5
Patents By Year of Application:	0	4	0	0	0	0	0	1	0	0	0	0	0	0	0	5
NATIONAL INSTITUTE OF AGROBIOLOGICAL SCIENCES																
Patents By Year of Grant:	0	0	0	0	0	1	0	0	0	0	0	2	2	0	0	5
Patents By Year of Application:	0	0	0	1	0	0	0	0	0	2	2	0	0	0	0	5
NEW WORLD PLANTS USA																
Patents By Year of Grant:	0	0	0	0	0	1	0	0	4	0	0	0	0	0	0	5
Patents By Year of Application:	0	0	0	0	1	0	0	4	0	0	0	0	0	0	0	5
OASIS HORTICULTURE PTY, LTD.																
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	5
Patents By Year of Application:	0	0	0	0	0	0	0	0	0	0	0	0	2	3	0	5
OLIJ ROSEN-B.V.																
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	2	2	1	0	0	0	5
Patents By Year of Application:	0	0	0	0	0	0	0	2	1	2	0	0	0	0	0	5
OREGON BULB FARMS, INC.																
Patents By Year of Grant:	0	0	3	2	0	0	0	0	0	0	0	0	0	0	0	5
Patents By Year of Application:	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	5
OUTENIQUA NURSERY																
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	2	2	0	0	1	5
Patents By Year of Application:	0	0	0	0	0	0	0	0	3	1	0	0	1	0	0	5
PANORAMA ROSES N.V.																
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	3	1	0	1	0	5
Patents By Year of Application:	0	0	0	0	0	0	0	0	4	0	0	1	0	0	0	5
PLANT 21 LLC																
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	5
Patents By Year of Application:	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	5

---- Organizational Patenting (Granted: Jan 01, 1977 - Dec 31, 2003) ---- Ranked List of Organizations with 5 or More Patents ----

	Pre	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	TOTAL
POTHOS PLANT B.V.																
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	5
Patents By Year of Application:	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	5
REDLANDS NURSERY PTY. LTD.																
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	5
Patents By Year of Application:	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	5
ROYAL SLUIS B.V.																
Patents By Year of Grant:	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Patents By Year of Application:	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
SCOTTISH CROP RESEARCH INSTITUTE																
Patents By Year of Grant:	1	0	0	0	0	0	0	0	2	0	0	2	0	0	0	5
Patents By Year of Application:	1	0	0	0	0	0	0	2	0	2	0	0	0	0	0	5
SEED RESEARCH SERVICES, LLC																
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	0	0	5	0	0	5
Patents By Year of Application:	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	5
SUNTORY FLOWERS LIMITED																
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	5
Patents By Year of Application:	0	0	0	0	0	0	0	0	0	0	0	0	0	5	0	5
UNIVERSITY OF CONNECTICUT																
Patents By Year of Grant:	0	0	0	0	0	0	3	1	1	0	0	0	0	0	0	5
Patents By Year of Application:	0	0	0	0	0	4	1	0	0	0	0	0	0	0	0	5
UNIVERSITY OF FLORIDA BOARD OF REGENTS																
Patents By Year of Grant:	0	0	1	2	1	1	0	0	0	0	0	0	0	0	0	5
Patents By Year of Application:	1	1	1	2	0	0	0	0	0	0	0	0	0	0	0	5
UNIVERSITY OF HAWAII																
Patents By Year of Grant:	0	0	0	0	1	0	0	0	1	0	0	0	0	3	0	5
Patents By Year of Application:	0	0	1	0	0	0	1	0	0	0	3	0	0	0	0	5
YOVAL AGRICULTURAL PRODUCTS LTD.																
Patents By Year of Grant:	0	0	0	0	1	1	0	3	0	0	0	0	0	0	0	5
Patents By Year of Application:	0	0	2	0	0	3	0	0	0	0	0	0	0	0	0	5
Other Organizations (549)																
Patents By Year of Grant:	234	29	24	23	32	39	32	35	42	50	44	49	51	122	86	892
Patents By Year of Application:	280	26	32	25	27	34	59	53	52	57	61	61	66	58	1	892