

# PLANT PATENTS

JANUARY 1, 1977 -- DECEMBER 31, 2004



March 2005  
U.S. PATENT AND TRADEMARK OFFICE  
OFFICE OF ELECTRONIC INFORMATION PRODUCTS / PTMD  
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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, 2004**. 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 1991**" column corresponds to the period **January 1, 1977** through **December 31, 1990**.

##### **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 2004**. 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, 2004**, UTILITY patent application data (most issued patent documents are utility patents) were approximately 93% complete for patent applications filed in 1999, 84% complete for applications filed in 2000, and 66% complete for 2001 filings, and 44% complete for applications filed in 2002. 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, 2004) -----															
	----- NUMBER OF PATENTS -----															
	Pre 1991	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	Total
Total	3397	353	321	442	499	387	362	394	561	420	548	584	1133	994	1016	11411
U.S. Origin	2227	237	196	236	283	201	183	230	245	200	232	372	518	395	428	6183
Foreign Origin	1170	116	125	206	216	186	179	164	316	220	316	212	615	599	588	5228
NETHERLANDS	251	23	46	63	63	34	41	29	71	65	102	57	218	162	211	1436
GERMANY	383	39	17	52	32	44	48	34	62	53	70	22	145	166	100	1267
UNITED KINGDOM	109	7	4	13	38	16	8	22	24	20	35	9	35	42	41	423
FRANCE	165	21	13	22	16	16	18	27	27	10	9	4	26	13	8	395
DENMARK	34	3	4	3	11	16	27	9	40	11	24	21	79	25	74	381
JAPAN	30	2	11	8	9	13	9	6	20	12	16	23	30	68	49	306
AUSTRALIA	22	9	2	3	2	3	7	14	13	11	15	25	27	25	26	204
ISRAEL	6		7	21	14	21	7		12	6	3	14	8	18	15	152
BELGIUM	11	2	2	2	10	3	2	4	20	5	12	6	10	38	16	143
NEW ZEALAND	36	4	7	7	6	4	2	2	4	9	11	4	7	12	20	135
CANADA	22	1	8	5	2	7		15	8	6	10	7	5	5	1	102
COSTA RICA	32	3		4	4	6	5		4	2	1	9	5	4	10	89
ITALY	25		2	2	1	1	2		1	1	2		1	2	1	41
INDIA									2	1		1	12	7	4	27
SPAIN	2		2		3		2			1	1	1		1	6	19
SOUTH AFRICA	1								6	1		4	1	4	1	18
AUSTRIA	16				1											17
SWITZERLAND	13												1	2		16
SWEDEN	4	1		1			1		1	1	1	1				11
COLOMBIA	5				1	1							1			8
SOUTH KOREA										2	1	3	1			7
HONDURAS					1			1						1		3
ARGENTINA	1				1			1								3
MEXICO										1	1		1			3
BRAZIL											2		1			3
THAILAND													1	2		3
IRELAND						1									1	2
TAIWAN	1				1											2
ECUADOR														2		2
INDONESIA															2	2
CHILE															2	2
MOROCCO									1							1
PORTUGAL												1				1
LEBANON		1														1
NORWAY	1															1
PHILIPPINES										1						1
Others ( 1 )										1						1
Ownership:																
U.S. Corporations	1816	188	164	232	250	200	163	198	237	167	246	321	454	321	414	5371
U.S. Government		1						2		1			8		3	15
U.S. Individuals	860	75	60	61	82	59	55	73	74	65	48	89	118	102	72	1893
Foreign Corporations	465	44	74	104	150	104	116	98	199	149	207	134	409	440	443	3136
Foreign Government	3	1	8	5	2	5		5	1	2	4	4	1	1		42
Foreign Individuals	253	44	15	40	15	19	28	18	50	36	43	36	143	130	84	954

	----- Patents Granted By Date Of Patent Grant (Granted: Jan 01, 1977 - Dec 31, 2004) -----															
	----- PERCENT OF PATENTS -----															
	Pre 1991	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	Total
Total	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
U.S. Origin	66	67	61	53	57	52	51	58	44	48	42	64	46	40	42	54
Foreign Origin	34	33	39	47	43	48	49	42	56	52	58	36	54	60	58	46
NETHERLANDS	7	7	14	14	13	9	11	7	13	15	19	10	19	16	21	13
GERMANY	11	11	5	12	6	11	13	9	11	13	13	4	13	17	10	11
UNITED KINGDOM	3	2	1	3	8	4	2	6	4	5	6	2	3	4	4	4
FRANCE	5	6	4	5	3	4	5	7	5	2	2	1	2	1	1	3
DENMARK	1	1	1	1	2	4	7	2	7	3	4	4	7	3	7	3
JAPAN	1	1	3	2	2	3	2	2	4	3	3	4	3	7	5	3
AUSTRALIA	1	3	1	1		1	2	4	2	3	3	4	2	3	3	2
ISRAEL			2	5	3	5	2		2	1	1	2	1	2	1	1
BELGIUM		1	1		2	1	1	1	4	1	2	1	1	4	2	1
NEW ZEALAND	1	1	2	2	1	1	1	1	1	2	2	1	1	1	2	1
CANADA	1		2	1		2		4	1	1	2	1		1		1
COSTA RICA	1	1		1	1	2	1		1			2			1	1
ITALY	1		1				1									0
INDIA													1	1		0
SPAIN			1		1		1								1	0
SOUTH AFRICA									1			1				0
AUSTRIA																0
SWITZERLAND																0
SWEDEN																0
COLOMBIA																0
SOUTH KOREA												1				0
HONDURAS																0
ARGENTINA																0
MEXICO																0
BRAZIL																0
THAILAND																0
IRELAND																0
TAIWAN																0
ECUADOR																0
INDONESIA																0
CHILE																0
MOROCCO																0
PORTUGAL																0
LEBANON																0
NORWAY																0
PHILIPPINES																0
Others ( 1 )																0
Ownership:																
U.S. Corporations	53	53	51	52	50	52	45	50	42	40	45	55	40	32	41	47
U.S. Government								1					1			0
U.S. Individuals	25	21	19	14	16	15	15	19	13	15	9	15	10	10	7	17
Foreign Corporations	14	12	23	24	30	27	32	25	35	35	38	23	36	44	44	27
Foreign Government			2	1		1		1			1	1				0
Foreign Individuals	7	12	5	9	3	5	8	5	9	9	8	6	13	13	8	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, 2004) -----

	NUMBER OF PATENTED APPLICATIONS															
	Pre 1991	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	Total
Total	3973	399	316	340	424	431	624	623	585	613	607	885	878	606	107	11411
U.S. Origin	2595	212	179	214	221	218	316	266	274	348	282	418	370	243	27	6183
Foreign Origin	1378	187	137	126	203	213	308	357	311	265	325	467	508	363	80	5228
NETHERLANDS	302	74	28	41	37	47	58	89	99	92	117	130	162	126	34	1436
GERMANY	439	35	26	25	46	52	47	88	79	31	47	111	155	71	15	1267
UNITED KINGDOM	126	7	16	15	23	11	33	33	36	7	26	34	31	24	1	423
FRANCE	196	12	19	13	14	21	38	17	15	6	22	12	4	6		395
DENMARK	38	6		8	19	27	35	26	24	43	22	40	25	54	14	381
JAPAN	42	4	11	2	12	15	26	15	9	34	20	38	43	35		306
AUSTRALIA	32	2	2	2	4	8	21	21	10	15	16	27	26	9	9	204
ISRAEL	7	29	5	7	25	3	12	8	2	13	17	7	11	4	2	152
BELGIUM	15		8	8	2	3	15	10	10	6	9	25	24	8		143
NEW ZEALAND	45	8	6	1	5	2	6	18	3	2	1	13	7	18		135
CANADA	27	6	5	1	6	9	11	9	10	6	4	7		1		102
COSTA RICA	35		5	1	5	8		7		5	8	2	7	2	4	89
ITALY	26	3	1		1	2	2		2		1	3				41
INDIA								3	2	1	7	9	5			27
SPAIN	4		3			2		1	1	1		1	5	1		19
SOUTH AFRICA	1					1	4	2	2	2	2	3	1			18
AUSTRIA	16			1												17
SWITZERLAND	13										1	1	1			16
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
INDONESIA														1	1	2
CHILE														2		2
NORWAY	1															1
PHILIPPINES								1								1
PORTUGAL											1					1
LEBANON	1															1
SLOVAKIA								1								1
Others ( 1 )								1								1
Ownership:																
U.S. Corporations	2113	184	182	184	213	191	293	239	273	305	266	334	310	259	25	5371
U.S. Government	1					1	1	1		1	2	8				15
U.S. Individuals	969	58	48	59	64	77	93	89	67	80	71	108	76	29	5	1893
Foreign Corporations	570	114	69	88	123	130	191	212	219	160	203	317	409	256	75	3136
Foreign Government	5	11	3	1	4	2	4	3	4	3		2				42
Foreign Individuals	315	32	14	8	20	30	42	79	22	64	65	116	83	62	2	954

----- Patents Granted By Date Of Patent Application (Granted: Jan 01, 1977 - Dec 31, 2004) -----

	PERCENT OF PATENTED APPLICATIONS															
	Pre 1991	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	Total
Total	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
U.S. Origin	65	53	57	63	52	51	51	43	47	57	46	47	42	40	25	54
Foreign Origin	35	47	43	37	48	49	49	57	53	43	54	53	58	60	75	46
NETHERLANDS	8	19	9	12	9	11	9	14	17	15	19	15	18	21	32	13
GERMANY	11	9	8	7	11	12	8	14	14	5	8	13	18	12	14	11
UNITED KINGDOM	3	2	5	4	5	3	5	5	6	1	4	4	4	4	1	4
FRANCE	5	3	6	4	3	5	6	3	3	1	4	1		1		3
DENMARK	1	2		2	4	6	6	4	4	7	4	5	3	9	13	3
JAPAN	1	1	3	1	3	3	4	2	2	6	3	4	5	6		3
AUSTRALIA	1	1	1	1	1	2	3	3	2	2	3	3	3	1	8	2
ISRAEL		7	2	2	6	1	2	1		2	3	1	1	1	2	1
BELGIUM			3	2		1	2	2	2	1	1	3	3	1		1
NEW ZEALAND	1	2	2		1		1	3	1			1	1	3		1
CANADA	1	2	2		1	2	2	1	2	1	1	1				1
COSTA RICA	1		2		1	2		1		1	1		1		4	1
ITALY	1	1														0
INDIA											1	1	1			0
SPAIN			1										1			0
SOUTH AFRICA							1									0
AUSTRIA																0
SWITZERLAND																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
INDONESIA															1	0
CHILE																0
NORWAY																0
PHILIPPINES																0
PORTUGAL																0
LEBANON																0
SLOVAKIA																0
Others ( 1 )																0
Ownership:																
U.S. Corporations	53	46	58	54	50	44	47	38	47	50	44	38	35	43	23	47
U.S. Government												1				0
U.S. Individuals	24	15	15	17	15	18	15	14	11	13	12	12	9	5	5	17
Foreign Corporations	14	29	22	26	29	30	31	34	37	26	33	36	47	42	70	27
Foreign Government		3	1		1		1		1							0
Foreign Individuals	8	8	4	2	5	7	7	13	4	10	11	13	9	10	2	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

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(Granted: Jan 01, 1977 - Dec 31, 2004) ---- Ranked List of Organizations with 5 or More Patents ----

[illegible]

----- Organizational Patenting (Granted: Jan 01, 1977 - Dec 31, 2004) ----- Ranked List of Organizations with 5 or More Patents -----

	Pre 1991	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	TOTAL
NOR'EAST MINIATURE ROSES, INC.																
Patents By Year of Grant:	68	5	5	7	4	1	6	5	4	2	2	1	2	0	1	113
Patents By Year of Application:	77	5	4	3	7	2	4	8	0	0	2	1	0	0	0	113
DEVOR NURSERIES, INC.																
Patents By Year of Grant:	11	16	18	5	4	10	13	5	7	5	3	0	0	0	0	97
Patents By Year of Application:	36	9	6	5	9	13	11	8	0	0	0	0	0	0	0	97
UNIVERSITY OF CALIFORNIA, THE REGENTS OF																
Patents By Year of Grant:	55	2	0	4	8	2	2	0	4	0	2	3	5	7	2	96
Patents By Year of Application:	57	3	1	8	2	2	4	0	2	2	2	9	2	2	0	96
VAN STAAVEREN B.V.																
Patents By Year of Grant:	15	5	17	4	12	6	4	4	10	9	7	0	1	0	0	94
Patents By Year of Application:	37	4	2	10	6	4	11	9	3	8	0	0	0	0	0	94
DANZIGER - "DAN" FLOWER FARM																
Patents By Year of Grant:	0	0	1	16	2	20	4	0	7	5	1	12	4	7	11	90
Patents By Year of Application:	0	17	2	0	21	3	7	5	2	11	2	6	10	4	0	90
CLEANGRO, LTD.																
Patents By Year of Grant:	0	0	0	0	3	0	0	15	14	11	23	2	1	5	12	86
Patents By Year of Application:	0	0	2	1	1	0	25	14	25	0	0	7	0	11	0	86
JOHN BODGER & SONS CO.																
Patents By Year of Grant:	0	0	0	0	0	2	0	7	21	6	4	7	8	0	31	86
Patents By Year of Application:	0	0	0	0	2	7	17	10	11	0	1	7	0	31	0	86
POULSEN ROSER APS																
Patents By Year of Grant:	0	0	0	0	0	0	0	0	10	5	19	2	2	3	45	86
Patents By Year of Application:	0	0	0	0	0	0	0	15	20	4	0	1	6	32	8	86
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
GOLDSMITH SEEDS, INC.																
Patents By Year of Grant:	0	0	13	0	3	6	0	0	2	3	0	1	0	27	27	82
Patents By Year of Application:	0	13	0	3	5	1	2	3	1	0	0	0	9	41	4	82
FIDES BEHEER B.V.																
Patents By Year of Grant:	33	0	14	23	1	2	1	2	3	0	2	0	0	0	0	81
Patents By Year of Application:	37	31	2	1	2	1	3	2	0	2	0	0	0	0	0	81

---- Organizational Patenting

(Granted: Jan 01, 1977 - Dec 31, 2004) ---- Ranked List of Organizations with 5 or More Patents ----

	Pre 1991	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	TOTAL
TERRA-NOVA NURSERIES, INC.																
Patents By Year of Grant:	0	0	0	0	3	0	0	0	1	2	12	9	30	12	12	81
Patents By Year of Application:	0	0	0	3	0	0	0	2	13	12	10	19	11	11	0	81
JACKSON & PERKINS WHOLESALE, INC.																
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	0	31	24	9	15	79
Patents By Year of Application:	0	0	0	0	0	0	0	0	0	35	16	10	14	4	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
WEEKS WHOLESALE ROSE GROWERS, INC.																
Patents By Year of Grant:	3	1	2	3	0	10	7	4	7	3	5	0	9	10	9	73
Patents By Year of Application:	4	3	2	2	8	7	6	6	7	1	6	12	4	5	0	73
DUMMEN JUNGPFANZENKULTUREN																
Patents By Year of Grant:	0	0	0	0	0	0	19	6	0	6	17	1	18	0	0	67
Patents By Year of Application:	0	0	0	0	0	20	6	0	21	1	8	7	4	0	0	67
LABORATOIRE DE PHYSIOLOGIE VEGETALE DE LA LONDE																
Patents By Year of Grant:	60	0	0	1	4	1	0	0	0	0	0	0	0	0	0	66
Patents By Year of Application:	60	1	4	0	1	0	0	0	0	0	0	0	0	0	0	66
DE RUITER'S NIEUWE ROZEN B.V.																
Patents By Year of Grant:	6	7	0	3	6	5	9	0	10	7	3	0	5	0	4	65
Patents By Year of Application:	13	3	6	1	2	11	4	13	3	0	5	1	1	2	0	65
RIJNPLANT																
Patents By Year of Grant:	0	0	0	0	0	0	0	0	3	9	13	8	16	2	13	64
Patents By Year of Application:	0	0	0	0	0	0	2	4	17	9	3	14	2	9	4	64
CALIFORNIA FLORIDA PLANT COMPANY L.P.																
Patents By Year of Grant:	0	3	8	21	0	5	0	4	8	0	0	6	0	0	8	63
Patents By Year of Application:	10	9	12	1	5	0	12	0	6	0	0	0	8	0	0	63
BALL HORTICULTURAL COMPANY																
Patents By Year of Grant:	0	0	0	0	0	0	0	13	5	0	0	0	2	1	41	62
Patents By Year of Application:	0	0	0	0	0	0	18	0	0	1	1	1	3	37	1	62
DRISCOLL STRAWBERRY ASSOCIATES INC.																
Patents By Year of Grant:	19	1	0	0	3	1	0	0	3	1	6	1	5	6	15	61
Patents By Year of Application:	20	0	0	3	1	0	2	6	2	3	3	7	11	3	0	61

---- Organizational Patenting

(Granted: Jan 01, 1977 - Dec 31, 2004) ---- Ranked List of Organizations with 5 or More Patents ----

	Pre															
	1991	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	TOTAL
GEORGE J. BALL, INC.																
Patents By Year of Grant:	7	3	0	13	4	12	22	0	0	0	0	0	0	0	0	61
Patents By Year of Application:	10	7	7	3	12	22	0	0	0	0	0	0	0	0	0	61
DAVID AUSTIN ROSES LIMITED																
Patents By Year of Grant:	4	3	0	9	20	0	5	0	3	3	4	0	2	5	2	60
Patents By Year of Application:	16	0	11	5	4	5	0	6	4	0	3	4	0	2	0	60
SUNTORY LTD.																
Patents By Year of Grant:	3	0	0	0	2	7	3	3	10	10	4	6	0	10	0	58
Patents By Year of Application:	3	0	0	0	5	10	11	9	4	8	0	6	2	0	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
CP (DELAWARE), INC.																
Patents By Year of Grant:	0	0	0	0	0	0	0	0	5	5	5	4	12	18	7	56
Patents By Year of Application:	0	0	0	0	0	0	0	8	7	5	9	14	8	5	0	56
SAKATA SEED CORPORATION																
Patents By Year of Grant:	0	0	0	0	0	0	0	2	0	0	0	8	14	19	10	53
Patents By Year of Application:	0	0	0	0	0	0	2	0	0	14	8	12	8	5	4	53
DUMMEN JUNGPFANZEN GBR																
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	0	0	5	47	0	52
Patents By Year of Application:	0	0	0	0	0	0	0	0	0	0	0	13	39	0	0	52
TWYFORD INTERNATIONAL, INC.																
Patents By Year of Grant:	0	0	0	0	7	3	8	9	2	1	0	0	8	6	5	49
Patents By Year of Application:	0	0	1	6	4	9	8	2	0	0	2	6	8	2	1	49
MONROVIA NURSERY CO.																
Patents By Year of Grant:	21	0	1	0	2	0	2	2	2	3	3	3	1	4	3	47
Patents By Year of Application:	22	0	0	2	0	2	4	4	4	1	1	2	3	1	1	47
KLEMM + SOHN GMBH & CO. KG																
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	0	0	14	21	9	44
Patents By Year of Application:	0	0	0	0	0	0	0	0	0	0	0	21	15	3	5	44

[illegible]

---- Organizational Patenting (Granted: Jan 01, 1977 - Dec 31, 2004) ---- Ranked List of Organizations with 5 or More Patents ----

	Pre 1991	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	TOTAL
FLORIDA FOUNDATION SEED PRODUCERS, INC.																
Patents By Year of Grant:	0	0	0	0	2	4	2	2	1	0	0	1	6	3	12	33
Patents By Year of Application:	0	0	2	3	3	1	2	0	0	4	1	4	9	4	0	33
STARK BROTHERS NURSERIES & ORCHARDS COMPANY																
Patents By Year of Grant:	29	0	0	0	2	2	0	0	0	0	0	0	0	0	0	33
Patents By Year of Application:	29	0	1	1	2	0	0	0	0	0	0	0	0	0	0	33
SEQUOIA NURSERY																
Patents By Year of Grant:	24	0	3	5	0	0	0	0	0	0	0	0	0	0	0	32
Patents By Year of Application:	24	7	1	0	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	3	3	1	2	6	0	0	0	0	0	0	0	0	0	31
Patents By Year of Application:	22	0	1	0	5	3	0	0	0	0	0	0	0	0	0	31
ELSNER PAC JUNGPLANZEN																
Patents By Year of Grant:	0	0	0	0	0	0	0	2	4	1	1	0	10	13	0	31
Patents By Year of Application:	0	0	0	0	0	2	4	2	0	0	10	0	13	0	0	31
JOSEF & HEINRICH WESTHOFF GARTENBAU-SPEZIALKULTUREN																
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	3	0	7	5	16	31
Patents By Year of Application:	0	0	0	0	0	0	0	0	3	1	2	4	7	5	9	31
PLANT DEVELOPMENT SERVICES INC.																
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	1	4	12	3	6	4	30
Patents By Year of Application:	0	0	0	0	0	0	1	0	6	6	5	3	4	4	1	30
FA. GEBR. VERWER																
Patents By Year of Grant:	0	0	0	0	0	0	0	0	10	0	9	2	7	1	0	29
Patents By Year of Application:	0	0	0	0	0	0	0	10	9	2	3	4	1	0	0	29
BLOOMS OF BRESSINGHAM LTD.																
Patents By Year of Grant:	1	1	0	2	3	1	0	1	3	2	4	2	4	1	3	28
Patents By Year of Application:	2	2	0	3	1	1	0	7	3	2	1	2	1	3	0	28
GOLDSMITH PLANTS, INC.																
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	10	5	13	0	0	28
Patents By Year of Application:	0	0	0	0	0	0	0	0	12	5	2	9	0	0	0	28
SYNGENTA SEEDS B.V.																
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	0	6	6	4	12	28
Patents By Year of Application:	0	0	0	0	0	0	0	0	0	2	5	5	3	12	1	28

---- Organizational Patenting (Granted: Jan 01, 1977 - Dec 31, 2004) ---- Ranked List of Organizations with 5 or More Patents ----

	Pre 1991	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	TOTAL
FIDES GOLDSTOCK BREEDING B.V.																
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	0	4	13	2	8	27
Patents By Year of Application:	0	0	0	0	0	0	0	0	0	0	8	8	3	5	3	27
GEBR. KOLSTER B.V.																
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	0	0	5	18	4	27
Patents By Year of Application:	0	0	0	0	0	0	0	0	0	0	0	17	6	4	0	27
SELECTION NEW PLANT SARL																
Patents By Year of Grant:	0	0	0	0	0	0	11	6	2	0	2	0	2	0	4	27
Patents By Year of Application:	0	0	0	0	11	0	7	1	2	1	1	0	0	4	0	27
SUNSHINE FOLIAGE WORLD																
Patents By Year of Grant:	0	0	0	0	3	4	2	1	7	6	2	1	0	1	0	27
Patents By Year of Application:	0	0	0	3	4	2	7	3	6	1	0	0	1	0	0	27
TWYFORD PLANT LABORATORIES, INC.																
Patents By Year of Grant:	8	1	0	0	0	0	0	0	0	0	0	4	14	0	0	27
Patents By Year of Application:	9	0	0	0	0	0	0	0	0	1	17	0	0	0	0	27
CORNELL RESEARCH FOUNDATION INC.																
Patents By Year of Grant:	9	0	2	0	2	0	1	0	0	7	0	2	1	2	0	26
Patents By Year of Application:	11	1	0	2	0	0	0	7	2	1	0	2	0	0	0	26
PLANT SCIENCES, INC.																
Patents By Year of Grant:	0	4	1	2	2	0	1	4	1	2	0	0	0	2	7	26
Patents By Year of Application:	6	1	2	0	0	1	4	2	1	0	1	0	2	6	0	26
PURDUE RESEARCH FOUNDATION																
Patents By Year of Grant:	19	0	0	0	0	2	0	1	0	0	0	0	1	3	0	26
Patents By Year of Application:	19	0	0	2	0	1	0	0	1	0	0	3	0	0	0	26
CEBECO LILIES, INC.																
Patents By Year of Grant:	0	0	1	0	1	8	0	0	9	5	0	0	0	0	0	24
Patents By Year of Application:	1	0	1	0	8	0	4	10	0	0	0	0	0	0	0	24
PLANT 21 LLC																
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	0	0	0	5	19	24
Patents By Year of Application:	0	0	0	0	0	0	0	0	0	0	0	5	0	19	0	24
VAN ZANTEN PLANTS B.V.																
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	0	0	0	17	7	24
Patents By Year of Application:	0	0	0	0	0	0	0	0	0	0	2	0	15	7	0	24



---- Organizational Patenting

(Granted: Jan 01, 1977 - Dec 31, 2004) ---- Ranked List of Organizations with 5 or More Patents ----

	Pre																
	1991	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	TOTAL	
COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH																	
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	1	0	1	11	6	4	23	
Patents By Year of Application:	0	0	0	0	0	0	0	1	2	1	7	8	4	0	0	23	
GEBR. VLETTER & J.A. DEN HAAN																	
Patents By Year of Grant:	5	0	0	17	1	0	0	0	0	0	0	0	0	0	0	23	
Patents By Year of Application:	5	18	0	0	0	0	0	0	0	0	0	0	0	0	0	23	
OGLESBY PLANTS INTERNATIONAL, INC.																	
Patents By Year of Grant:	0	0	0	0	0	0	0	0	1	5	1	7	4	3	2	23	
Patents By Year of Application:	0	0	0	0	0	0	0	5	1	4	4	6	2	1	0	23	
SUN WORLD INTERNATIONAL, INC.																	
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	5	2	8	2	6	23	
Patents By Year of Application:	0	0	0	0	0	0	0	1	6	0	0	10	0	6	0	23	
CORN. BAK B.V.																	
Patents By Year of Grant:	0	3	0	2	3	0	1	0	2	4	0	2	4	0	1	22	
Patents By Year of Application:	3	1	1	2	2	0	1	5	0	4	2	0	1	0	0	22	
ETS. GUILLOU FRERES																	
Patents By Year of Grant:	7	2	0	0	0	2	2	2	1	4	0	0	2	0	0	22	
Patents By Year of Application:	9	0	0	0	2	3	5	1	0	2	0	0	0	0	0	22	
INNOVAPLANT GMBH & CO. KG																	
Patents By Year of Grant:	0	0	0	0	0	0	0	0	2	1	1	3	1	13	0	21	
Patents By Year of Application:	0	0	0	0	0	0	2	0	2	2	2	0	13	0	0	21	
HER MAJESTY THE QUEEN IN RIGHT OF CANADA, AS REPRESENTED BY THE MINISTER OF AGRICULTURE																	
Patents By Year of Grant:	0	0	2	0	0	5	0	4	0	1	3	3	1	1	0	20	
Patents By Year of Application:	0	2	0	1	4	0	4	1	4	2	0	2	0	0	0	20	
MILESTONE AGRICULTURE INC.																	
Patents By Year of Grant:	0	0	0	0	0	3	0	6	5	1	0	4	1	0	0	20	
Patents By Year of Application:	0	0	0	0	3	1	8	2	1	2	3	0	0	0	0	20	
UNIVERSITY OF MINNESOTA, THE REGENTS OF																	
Patents By Year of Grant:	6	0	1	1	0	0	0	0	1	1	1	0	1	2	5	19	
Patents By Year of Application:	7	1	0	0	0	0	1	2	0	0	3	5	0	0	0	19	
BAILEY NURSERIES, INC.																	
Patents By Year of Grant:	3	0	0	1	1	0	0	1	1	1	0	2	2	2	4	18	
Patents By Year of Application:	3	1	1	0	0	0	1	1	1	2	2	2	3	1	0	18	

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---- Organizational Patenting (Granted: Jan 01, 1977 - Dec 31, 2004) ---- Ranked List of Organizations with 5 or More Patents ----

	Pre 1991	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	TOTAL
HORTICULTURAL AND FOOD RESEARCH INSTITUTE OF NEW ZEALAND LIMITED																
Patents By Year of Grant:	0	0	0	0	1	0	0	0	0	0	5	0	0	7	2	15
Patents By Year of Application:	0	0	1	0	0	0	0	5	0	0	0	4	5	0	0	15
INTERNATIONAL PLANT BREEDING AG																
Patents By Year of Grant:	0	0	0	0	0	0	0	0	11	0	0	0	0	4	0	15
Patents By Year of Application:	0	0	0	0	0	0	0	11	0	0	0	0	4	0	0	15
MOZANT LLC																
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	0	1	3	4	7	15
Patents By Year of Application:	0	0	0	0	0	0	0	0	0	1	3	8	3	0	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
UNITED STATES OF AMERICA, DEPARTMENT OF AGRICULTURE																
Patents By Year of Grant:	0	1	0	0	0	0	0	2	0	1	0	0	8	0	3	15
Patents By Year of Application:	1	0	0	0	0	1	1	1	0	1	2	8	0	0	0	15
E. G. HILL CO., INC.																
Patents By Year of Grant:	11	0	0	2	0	0	0	0	0	0	0	1	0	0	0	14
Patents By Year of Application:	11	0	2	0	0	0	0	0	0	1	0	0	0	0	0	14
J. FRANK SCHMIDT & SON CO.																
Patents By Year of Grant:	3	4	0	1	0	2	0	0	3	0	0	0	0	1	0	14
Patents By Year of Application:	7	0	1	0	2	0	0	3	0	0	0	0	1	0	0	14
KIRIN BREWERY CO., LTD.																
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	0	0	2	12	0	14
Patents By Year of Application:	0	0	0	0	0	0	0	0	0	0	0	0	14	0	0	14
O. M. SCOTT AND SONS COMPANY																
Patents By Year of Grant:	11	0	1	1	0	1	0	0	0	0	0	0	0	0	0	14
Patents By Year of Application:	12	0	1	1	0	0	0	0	0	0	0	0	0	0	0	14
OGLESBY PLANT LABORATORIES, INC.																
Patents By Year of Grant:	1	1	0	2	2	0	1	3	4	0	0	0	0	0	0	14
Patents By Year of Application:	2	2	0	2	0	1	6	1	0	0	0	0	0	0	0	14
PLANTAS DE NAVARRA S.A.																
Patents By Year of Grant:	0	0	2	0	3	0	2	0	0	1	0	0	0	1	5	14
Patents By Year of Application:	2	0	3	0	0	2	0	1	0	0	0	1	5	0	0	14

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(Granted: Jan 01, 1977 - Dec 31, 2004) ---- Ranked List of Organizations with 5 or More Patents ----

	Pre															
	1991	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	TOTAL
SAATZUCHT QUEDLINBURG GMBH																
Patents By Year of Grant:	0	0	0	0	0	0	0	12	2	0	0	0	0	0	0	14
Patents By Year of Application:	0	0	0	0	0	0	13	1	0	0	0	0	0	0	0	14
SUNTORY FLOWERS LIMITED																
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	0	0	0	5	9	14
Patents By Year of Application:	0	0	0	0	0	0	0	0	0	0	0	0	10	4	0	14
ADAMS COUNTY NURSERY, INC.																
Patents By Year of Grant:	5	0	0	0	0	0	0	1	1	3	2	0	0	0	1	13
Patents By Year of Application:	5	0	0	0	0	1	0	4	2	0	0	0	0	1	0	13
CARLTON ROSE NURSERIES, INC.																
Patents By Year of Grant:	10	0	2	0	0	0	0	1	0	0	0	0	0	0	0	13
Patents By Year of Application:	12	0	0	0	0	1	0	0	0	0	0	0	0	0	0	13
ESMERALDA BREEDING B.V.																
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	13	13
Patents By Year of Application:	0	0	0	0	0	0	0	0	0	0	0	0	0	9	4	13
ITO PACKING CO., INC.																
Patents By Year of Grant:	7	0	2	1	0	1	1	0	0	0	0	0	1	0	0	13
Patents By Year of Application:	9	1	0	0	1	1	0	0	0	1	0	0	0	0	0	13
OMS INVESTMENTS, INC.																
Patents By Year of Grant:	0	0	0	0	0	1	1	4	1	1	3	1	1	0	0	13
Patents By Year of Application:	0	0	0	0	1	2	4	1	3	0	2	0	0	0	0	13
RESEARCH CORPORATION TECHNOLOGIES, INC.																
Patents By Year of Grant:	5	6	0	1	0	1	0	0	0	0	0	0	0	0	0	13
Patents By Year of Application:	11	1	0	0	0	1	0	0	0	0	0	0	0	0	0	13
TREE INTRODUCTIONS, INC.																
Patents By Year of Grant:	0	2	0	0	0	0	0	0	0	0	5	1	0	5	0	13
Patents By Year of Application:	2	0	0	0	0	0	0	1	4	1	0	4	1	0	0	13
TREESEARCH (PARTNERSHIP)																
Patents By Year of Grant:	7	0	0	0	0	0	0	0	1	2	0	2	1	0	0	13
Patents By Year of Application:	7	0	0	0	0	0	1	2	0	1	2	0	0	0	0	13
ASTERKLUBBEN																
Patents By Year of Grant:	0	0	0	0	0	0	0	0	6	0	0	0	4	0	2	12
Patents By Year of Application:	0	0	0	0	0	0	6	0	0	0	0	0	4	0	2	12

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(Granted: Jan 01, 1977 - Dec 31, 2004) ---- Ranked List of Organizations with 5 or More Patents ----

	Pre															
	1991	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	TOTAL
BEGONIA BREEDERS ASSOC. B.V.																
Patents By Year of Grant:	0	0	0	0	0	0	0	0	7	3	0	0	0	1	1	12
Patents By Year of Application:	0	0	0	0	0	0	0	10	0	0	0	0	1	1	0	12
D. S. COLE GROWERS, INC.																
Patents By Year of Grant:	0	0	0	0	0	2	1	1	1	1	0	0	5	0	1	12
Patents By Year of Application:	0	0	0	0	2	1	1	2	0	0	5	0	1	0	0	12
GREEN CIRCLE GROWERS, INC.																
Patents By Year of Grant:	0	0	0	0	0	0	0	11	1	0	0	0	0	0	0	12
Patents By Year of Application:	0	0	0	0	0	0	12	0	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	3	9	0	12
Patents By Year of Application:	0	0	0	0	0	0	0	0	0	0	0	3	9	0	0	12
HILVERDA B.V.																
Patents By Year of Grant:	8	4	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
IOWA STATE UNIVERSITY RESEARCH FOUNDATION INC.																
Patents By Year of Grant:	11	0	0	0	0	0	0	0	0	0	0	0	1	0	0	12
Patents By Year of Application:	11	0	0	0	0	0	0	0	0	1	0	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	1	4	0	3	0	3	1	0	12
Patents By Year of Application:	0	0	0	0	0	0	2	3	3	0	3	1	0	0	0	12
STATE OF ISRAEL, MINISTRY OF AGRICULTURE, AGRICULTURAL RESEARCH ORGANIZATION, THE VOLCANI CENTER																
Patents By Year of Grant:	0	0	4	2	3	0	0	0	0	1	2	0	0	0	0	12
Patents By Year of Application:	0	6	3	0	0	0	0	3	0	0	0	0	0	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	3	5	4	0	0	0	0	0	12
Patents By Year of Application:	0	0	0	0	0	3	3	6	0	0	0	0	0	0	0	12

----	Organizational Patenting				(Granted: Jan 01, 1977 - Dec 31, 2004)											----	Ranked List of Organizations with 5 or More Patents			----
	Pre																			
	1991	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	TOTAL				
DELIFLOR ROYALTY B.V.																				
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	0	0	0	4	7	11				
Patents By Year of Application:	0	0	0	0	0	0	0	0	0	0	0	0	4	7	0	11				
DENACHTVLINDER B.V.																				
Patents By Year of Grant:	0	0	0	0	2	0	0	1	3	1	0	1	3	0	0	11				
Patents By Year of Application:	0	0	0	2	0	0	4	1	0	4	0	0	0	0	0	11				
FRUIT TREE RESEARCH STATION, MINISTRY OF AGRICULTURE, FORESTRY AND FISHERIES																				
Patents By Year of Grant:	3	1	0	3	1	2	1	0	0	0	0	0	0	0	0	11				
Patents By Year of Application:	4	2	2	0	2	1	0	0	0	0	0	0	0	0	0	11				
HARTMAN PLANT LABORATORIES, INC.																				
Patents By Year of Grant:	8	3	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				
HOFFGAARDE B.V.																				
Patents By Year of Grant:	2	0	0	0	1	7	0	0	0	1	0	0	0	0	0	11				
Patents By Year of Application:	2	0	0	0	8	0	0	1	0	0	0	0	0	0	0	11				
INTER-PLANT PATENT MARKETING, INC.																				
Patents By Year of Grant:	0	0	3	1	3	0	4	0	0	0	0	0	0	0	0	11				
Patents By Year of Application:	3	2	2	0	0	4	0	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	8	0	0	0	2	1	0	11				
Patents By Year of Application:	0	0	0	0	0	0	8	0	0	0	2	1	0	0	0	11				
JOSEPH H. HILL COMPANY																				
Patents By Year of Grant:	10	0	0	1	0	0	0	0	0	0	0	0	0	0	0	11				
Patents By Year of Application:	10	1	0	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	2	0	0	0	0	0	0	0	0	11				
Patents By Year of Application:	9	0	0	0	0	2	0	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	2	4	3	1	1	0	11				
Patents By Year of Application:	0	0	0	0	0	0	0	2	4	0	3	1	1	0	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				

---- Organizational Patenting (Granted: Jan 01, 1977 - Dec 31, 2004) ---- Ranked List of Organizations with 5 or More Patents ----

	Pre 1991	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	TOTAL
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	11	0	11
Patents By Year of Application:	0	0	0	0	0	0	0	0	0	0	11	0	0	0	0	11
SUN WORLD, INC.																
Patents By Year of Grant:	0	3	0	4	0	0	0	1	3	0	0	0	0	0	0	11
Patents By Year of Application:	3	2	2	0	0	0	4	0	0	0	0	0	0	0	0	11
WASHINGTON STATE UNIVERSITY RESEARCH FOUNDATION, INC.																
Patents By Year of Grant:	3	0	2	0	1	1	0	0	1	0	1	1	0	0	1	11
Patents By Year of Application:	3	2	1	0	1	0	0	1	2	0	0	0	1	0	0	11
BARTELS BREEDING B.V.																
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	1	4	5	0	0	10
Patents By Year of Application:	0	0	0	0	0	0	0	0	1	6	2	1	0	0	0	10
BODGER SEEDS, LTD.																
Patents By Year of Grant:	4	0	0	1	0	0	0	0	0	0	0	0	0	0	5	10
Patents By Year of Application:	4	0	1	0	0	0	0	0	0	0	0	0	0	5	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	2	2	3	0	2	1	0	0	0	0	0	10
Patents By Year of Application:	0	0	1	1	2	3	2	1	0	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	3	1	2	0	4	0	10
Patents By Year of Application:	0	0	0	0	0	0	0	0	4	2	4	0	0	0	0	10
H. AND B.R. VAN DEN BOSCH B.V.																
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	3	2	0	1	3	1	10
Patents By Year of Application:	0	0	0	0	0	0	0	0	3	2	1	0	3	1	0	10
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
KOPPE VEREDELING B.V.																
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	2	1	1	2	3	1	10
Patents By Year of Application:	0	0	0	0	0	0	0	0	3	1	2	0	3	1	0	10

---- Organizational Patenting

(Granted: Jan 01, 1977 - Dec 31, 2004) ---- Ranked List of Organizations with 5 or More Patents ----

	Pre 1991	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	TOTAL
TEXAS A&M UNIVERSITY SYSTEM																
Patents By Year of Grant:	0	1	0	0	0	0	0	0	1	1	2	0	1	2	2	10
Patents By Year of Application:	1	0	0	0	0	0	0	2	2	0	1	0	4	0	0	10
UNIVERSITY OF SYDNEY PLANT BREEDING INSTITUTE, COBBITTY																
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	3	3	4	0	0	0	10
Patents By Year of Application:	0	0	0	0	0	0	0	3	3	4	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	2	7	1	0	10
Patents By Year of Application:	0	0	0	0	0	0	0	0	0	0	3	6	1	0	0	10
DENHOLM SEEDS, INC.																
Patents By Year of Grant:	7	1	1	0	0	0	0	0	0	0	0	0	0	0	0	9
Patents By Year of Application:	8	1	0	0	0	0	0	0	0	0	0	0	0	0	0	9
FUTURE PLANTS LICENTIE B.V.																
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	0	0	0	2	7	9
Patents By Year of Application:	0	0	0	0	0	0	0	0	0	0	0	0	2	7	0	9
GOLDSTOCK BREEDING LIMITED																
Patents By Year of Grant:	0	0	0	0	5	4	0	0	0	0	0	0	0	0	0	9
Patents By Year of Application:	0	0	3	2	4	0	0	0	0	0	0	0	0	0	0	9
JOHN I. HAAS, INC.																
Patents By Year of Grant:	0	0	0	0	3	0	0	1	0	0	1	0	4	0	0	9
Patents By Year of Application:	0	0	3	0	0	0	2	0	0	4	0	0	0	0	0	9
KIEFT BLOEM ZADEN, B.V.																
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	9
Patents By Year of Application:	0	0	0	0	0	0	0	0	0	0	0	0	0	3	6	9
MITSUWA NURSERY, INC.																
Patents By Year of Grant:	5	3	0	1	0	0	0	0	0	0	0	0	0	0	0	9
Patents By Year of Application:	8	1	0	0	0	0	0	0	0	0	0	0	0	0	0	9
NATIVE PLANTS, INC.																
Patents By Year of Grant:	0	7	2	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
SWEETBRIAR DEVELOPMENT INC.																
Patents By Year of Grant:	0	0	2	0	0	1	2	0	0	4	0	0	0	0	0	9
Patents By Year of Application:	0	2	0	0	1	2	0	0	4	0	0	0	0	0	0	9



(Granted: Jan 01, 1977 - Dec 31, 2004) ---- Ranked List of Organizations with 5 or More Patents ----

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---- Organizational Patenting (Granted: Jan 01, 1977 - Dec 31, 2004) ---- Ranked List of Organizations with 5 or More Patents ----

	Pre															
	1991	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	TOTAL
UNIVERSITY OF GEORGIA RESEARCH FOUNDATION, INC.																
Patents By Year of Grant:	0	0	0	0	0	0	0	2	0	0	2	0	3	0	1	8
Patents By Year of Application:	0	0	0	0	0	2	0	1	1	0	3	0	1	0	0	8
UNIVERSITY OF TENNESSEE RESEARCH CORPORATION																
Patents By Year of Grant:	0	5	0	0	0	0	0	0	0	0	0	0	3	0	0	8
Patents By Year of Application:	5	0	0	0	0	0	0	0	0	0	3	0	0	0	0	8
W. KORDES' SOHNE ROSENSCHULEN GMBH & CO KG																
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	0	0	0	2	6	8
Patents By Year of Application:	0	0	0	0	0	0	0	0	0	0	0	4	3	1	0	8
ANTHURA B.V.																
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	0	1	2	0	4	7
Patents By Year of Application:	0	0	0	0	0	0	0	0	0	0	2	1	0	4	0	7
COLOR SPOT NURSERIES, INC.																
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	1	4	1	1	0	0	7
Patents By Year of Application:	0	0	0	0	0	0	0	2	3	0	1	1	0	0	0	7
DEROOSE PLANTS BVBA																
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	0	7	0	0	0	7
Patents By Year of Application:	0	0	0	0	0	0	0	0	0	7	0	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	7	0	7
Patents By Year of Application:	0	0	0	0	0	0	0	0	0	0	0	0	7	0	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	1	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
P. KOOIJ + ZONEN B.V.																
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	0	3	4	0	0	7
Patents By Year of Application:	0	0	0	0	0	0	0	0	0	7	0	0	0	0	0	7
PRIDE OF PLACE PLANTS, INC.																
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	2	0	0	2	0	3	7
Patents By Year of Application:	0	0	0	0	0	0	0	2	1	0	1	0	3	0	0	7

----- Organizational Patenting (Granted: Jan 01, 1977 - Dec 31, 2004) ----- Ranked List of Organizations with 5 or More Patents -----

	Pre 1991	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	TOTAL
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
ROSES BY FRED EDMUNDS, INC.																
Patents By Year of Grant:	0	1	2	3	0	0	0	0	0	0	0	0	0	0	1	7
Patents By Year of Application:	1	3	2	0	0	0	0	0	0	0	0	0	0	1	0	7
SAKATA SEED AMERICA, INC.																
Patents By Year of Grant:	3	0	0	0	0	0	0	0	3	1	0	0	0	0	0	7
Patents By Year of Application:	3	0	0	0	0	0	4	0	0	0	0	0	0	0	0	7
SEED RESEARCH SERVICES, LLC																
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	0	5	0	0	2	7
Patents By Year of Application:	0	0	0	0	0	0	0	0	0	0	5	0	2	0	0	7
STEWART ORCHIDS																
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
UNIVERSITY OF ILLINOIS																
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
UNIVERSITY OF NEBRASKA, THE BOARD OF REGENTS OF																
Patents By Year of Grant:	1	0	0	1	0	0	0	1	0	0	3	0	0	1	0	7
Patents By Year of Application:	1	1	0	0	0	1	0	3	0	0	0	1	0	0	0	7
WITTEMAN + CO.																
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	3	4	0	7
AGROPLANT-SELECT BV																
Patents By Year of Grant:	0	0	0	0	6	0	0	0	0	0	0	0	0	0	0	6
Patents By Year of Application:	0	0	0	6	0	0	0	0	0	0	0	0	0	0	0	6
BERRY GENETICS, INC.																
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	0	0	6	0	0	6
Patents By Year of Application:	0	0	0	0	0	0	0	0	0	4	0	2	0	0	0	6
CENTERTON NURSERY, INC.																
Patents By Year of Grant:	0	0	0	0	0	0	0	1	0	0	0	0	0	4	1	6
Patents By Year of Application:	0	0	0	0	0	1	0	0	0	0	0	4	0	1	0	6

---- Organizational Patenting (Granted: Jan 01, 1977 - Dec 31, 2004) ---- Ranked List of Organizations with 5 or More Patents ----

	Pre															
	1991	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	TOTAL
COINER NURSERY																
Patents By Year of Grant:	0	0	0	0	1	0	0	1	0	0	0	0	3	1	0	6
Patents By Year of Application:	0	1	0	0	1	0	0	0	0	0	4	0	0	0	0	6
ESTABLISSEMENTS BARBERAT ET BLANC, LABORATOIRE DE PHYSIOLOGI																
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
GEBR. MAN C.V.																
Patents By Year of Grant:	2	0	0	0	0	0	0	0	3	1	0	0	0	0	0	6
Patents By Year of Application:	2	0	0	0	0	0	0	4	0	0	0	0	0	0	0	6
GEO. W. PARK SEED CO., INC.																
Patents By Year of Grant:	4	0	0	0	0	0	0	0	2	0	0	0	0	0	0	6
Patents By Year of Application:	4	0	0	0	0	0	2	0	0	0	0	0	0	0	0	6
HILLTOP ORCHARDS & NURSERIES, INC.																
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
KEISEI ROSE NURSERIES, INC.																
Patents By Year of Grant:	0	0	0	1	1	0	0	0	0	1	0	0	0	2	1	6
Patents By Year of Application:	0	0	2	0	0	0	1	0	0	0	0	2	1	0	0	6
KLEHM BOYS PARTNERSHIP																
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
KOALA BLOOMS PTY. LTD.																
Patents By Year of Grant:	0	0	0	0	0	0	0	0	6	0	0	0	0	0	0	6
Patents By Year of Application:	0	0	0	0	0	0	6	0	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	3	1	0	2	0	0	6
Patents By Year of Application:	0	0	0	0	0	0	0	4	0	0	2	0	0	0	0	6



---- Organizational Patenting (Granted: Jan 01, 1977 - Dec 31, 2004) ---- Ranked List of Organizations with 5 or More Patents ----

	Pre															
	1991	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	TOTAL
DELIFLOR CHRYSANTEN B.V.																
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	0	1	1	3	0	5
Patents By Year of Application:	0	0	0	0	0	0	0	0	0	1	1	1	2	0	0	5
ETABLISSEMENTS BARBERET ET BLANC																
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
FLOWERWOOD NURSERY INC.																
Patents By Year of Grant:	0	0	0	1	1	3	0	0	0	0	0	0	0	0	0	5
Patents By Year of Application:	0	0	1	1	1	2	0	0	0	0	0	0	0	0	0	5
FRAMPTONS NURSERIES LIMITED																
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
GARTNERIET HJORTEBJERG I/S																
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	0	5	5
GARTNERIET ROSBORG BELLINGE A/S																
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	0	0	2	1	2	5
Patents By Year of Application:	0	0	0	0	0	0	0	0	0	0	0	0	3	2	0	5
GRUNEWALD VEREDLINGS 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
H. DE MEYER - DE ROUCK B.V.B.A.																
Patents By Year of Grant:	0	0	0	0	4	0	0	1	0	0	0	0	0	0	0	5
Patents By Year of Application:	0	0	1	3	0	1	0	0	0	0	0	0	0	0	0	5
HOKUETSU NOHJI CO., LTD.																
Patents By Year of Grant:	0	0	5	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
JOSEPH + LUC PIETERS BVBA																
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	0	0	0	3	2	5
Patents By Year of Application:	0	0	0	0	0	0	0	0	0	0	0	0	3	2	0	5
KONINKLIJKE VAN ZANTEN B.V.																
Patents By Year of Grant:	0	0	0	0	1	0	0	0	0	0	3	1	0	0	0	5
Patents By Year of Application:	0	0	1	0	0	0	0	0	4	0	0	0	0	0	0	5

---- Organizational Patenting (Granted: Jan 01, 1977 - Dec 31, 2004) ---- Ranked List of Organizations with 5 or More Patents ----

	Pre 1991	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	TOTAL
M. LEK EN ZONEN, B.V.																
Patents By Year of Grant:	3	0	0	0	0	0	2	0	0	0	0	0	0	0	0	5
Patents By Year of Application:	3	0	0	0	0	2	0	0	0	0	0	0	0	0	0	5
MT. HOOD LILIES, INC.																
Patents By Year of Grant:	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	5
Patents By Year of Application:	0	0	0	4	1	0	0	0	0	0	0	0	0	0	0	5
NAKAJIMA TENKOEN CO., LTD.																
Patents By Year of Grant:	0	0	4	0	0	0	0	0	0	0	1	0	0	0	0	5
Patents By Year of Application:	4	0	0	0	0	0	1	0	0	0	0	0	0	0	0	5
NATIONAL INSTITUTE OF AGROBIOLOGICAL SCIENCES																
Patents By Year of Grant:	0	0	0	0	1	0	0	0	0	0	2	2	0	0	0	5
Patents By Year of Application:	0	0	1	0	0	0	0	0	2	2	0	0	0	0	0	5
NEW WORLD PLANTS USA																
Patents By Year of Grant:	0	0	0	0	1	0	0	4	0	0	0	0	0	0	0	5
Patents By Year of Application:	0	0	0	1	0	0	4	0	0	0	0	0	0	0	0	5
OLIJ ROSEN-B.V.																
Patents By Year of Grant:	0	0	0	0	0	0	0	0	2	2	1	0	0	0	0	5
Patents By Year of Application:	0	0	0	0	0	0	2	1	2	0	0	0	0	0	0	5
OREGON BULB FARMS, INC.																
Patents By Year of Grant:	0	3	2	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
OUTENIQUA NURSERY																
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	2	2	0	0	1	0	5
Patents By Year of Application:	0	0	0	0	0	0	0	3	1	0	0	1	0	0	0	5
PANORAMA ROSES N.V.																
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	3	1	0	1	0	0	5
Patents By Year of Application:	0	0	0	0	0	0	0	4	0	0	1	0	0	0	0	5
POTHOS PLANT B.V.																
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
REDLANDS NURSERY PTY. LTD.																
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

---- Organizational Patenting

(Granted: Jan 01, 1977 - Dec 31, 2004) ---- Ranked List of Organizations with 5 or More Patents ----

	Pre 1991	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	TOTAL
ROSEN TANTAU MATHIAS TANTAU NACHFOLGER																
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	0	0	2	2	1	5
Patents By Year of Application:	0	0	0	0	0	0	0	0	0	1	1	1	1	1	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	2	0	0	2	0	0	0	0	5
Patents By Year of Application:	1	0	0	0	0	0	2	0	2	0	0	0	0	0	0	5
UNIVERSITY OF CONNECTICUT																
Patents By Year of Grant:	0	0	0	0	0	3	1	1	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
UNIVERSITY OF FLORIDA BOARD OF REGENTS																
Patents By Year of Grant:	0	1	2	1	1	0	0	0	0	0	0	0	0	0	0	5
Patents By Year of Application:	2	1	2	0	0	0	0	0	0	0	0	0	0	0	0	5
UNIVERSITY OF HAWAII																
Patents By Year of Grant:	0	0	0	1	0	0	0	1	0	0	0	0	3	0	0	5
Patents By Year of Application:	0	1	0	0	0	1	0	0	0	3	0	0	0	0	0	5
VERWER DAHLIAS BV																
Patents By Year of Grant:	0	0	0	0	0	0	0	0	0	0	0	0	0	2	3	5
Patents By Year of Application:	0	0	0	0	0	0	0	0	0	0	0	0	2	3	0	5
YOVAL AGRICULTURAL PRODUCTS LTD.																
Patents By Year of Grant:	0	0	0	1	1	0	3	0	0	0	0	0	0	0	0	5
Patents By Year of Application:	0	2	0	0	3	0	0	0	0	0	0	0	0	0	0	5
Other Organizations (584)																
Patents By Year of Grant:	262	24	23	32	39	32	33	42	50	42	49	50	109	62	105	954
Patents By Year of Application:	305	32	25	27	34	57	53	50	56	58	54	66	71	57	9	954