



Plant Varieties Journal

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REGISTRAR'S REMARKS



Kathryn Adams Registrar of Plant Variety Rights PLANT VARIETY RIGHTS OFFICE GPO BOX 858 CANBERRA ACT 2601

Another year has caught up with us and we are about to launch into the 1990's. This will be an exciting period not only in terms of technological development in the plant world but also in preparing for the future changes in our environment.

At a recent Workshop on climate change sponsored by the Bureau of Rural Resources and the Australian Special Rural Research Council, the uncertainty of the future was highlighted. There was considerable evidence to support the view that temperature and CO_2 levels will increase but no-one could say for sure by how much (will it be a 3° or 6° change in temperature) or identify the associated rainfall pattern.

Evidence suggests that even a 1° change in temperature can effect agricultural requirements such as the number of frost free days, pest and disease conditions, time to maturity etc. The message was clear that if Australia is to take advantage of future climatic changes the two priority areas are plant breeding and pest and disease management.

Another area where plant breeding has been given high priority is in the move towards sustainable agriculture to ensure that our land is capable of supporting production for future generations. The potential for plant breeding is now greater than ever before and the use of new technologies should allow breeders to respond more quickly to the challenges ahead.

From March 1990 all genera and species will be eligible for PVR, providing a commercial incentive for plant breeders to look to the future in their breeding programs and to include species which may have little significance at present but could have potential under different conditions.

A strong emphasis on plant breeding now has the potential to secure the agricultural future of Australia for generations to come. The challenge is whether plant breeders can take a long term view or whether the pressure for short term gain will continue to take precedence. Perhaps this could be an issue for the industry R & D Councils/Corporations, allocating a proportion of their funds to such longer term research.

On a lighter note, 1989 has been an exciting year for the PVR Office, with the first full year of operation. The first Australian PVR was granted in February for the Macadamia varieties bred by Henry, Allison and David Bell and the number of applications has been increasing rapidly. To help you keep up to date we have published a complete list of applications received (Appendix 7).

Since the last issue of the Journal we have welcomed David Thearle as our second Examiner. David will broaden the range of skills already available as he has a background in forestry and tree breeding, one of the most difficult areas for PVR.

PVR is now a commercial reality in Australia and will provide our plant breeders with the long needed opportunity to catch up with the rest of the world in terms of reward for effort.

We hope that 1989 has been prosperous and that 1990 is even better.

MERRY CHRISTMAS AND HAPPY NEW YEAR from the staff of the PVR Office and the members of the PVR Advisory Committee.

PART 1 — ITEMS OF GENERAL INTEREST

IMPLEMENTATION OF PVR — PROGRESS

The number of applications is increasing rapidly, with a further 40 since the last issue and several more in the pipeline. The number received in the 1989/90 financial year already exceeds the total for 1988/9. Breeders are continuing to recognise the need to protect their investments against unauthorised propagation and marketing using the internationally recognised PVR system.

As from 1 March 1990 PVR will be available for all genera and species. Many countries have limited provision of PVR to economically significant species. However, this does not help breeders who are looking at alternative crops or extending the range of products available. Inclusion of all species is necessary to encourage this form of development.



STAFF

We would like to introduce you to David Thearle, the newest member of the PVR team. He has a Bachelor of Science (Forestry) degree and a long time interest in arboriculture and horticulture. David has worked in plantation silviculture in Australia and New Zealand. He joined the Department of Primary Industry in 1982 and supervised a natural resource management information system.

As an Examiner, David will be dealing directly with applicants and brings a wealth of experience to the job, particularly in the field of forestry.

ELIGIBILITY AND EXAMINATION OF APPLICATIONS

The following is a brief summary of the requirements for application and examination of new varieties for PVR.

Eligibility

- Only the original breeder (or employer), an agent of the original breeder or a person who has been assigned the right to the variety, in writing, by the breeder are eligible to apply. Therefore if someone else tries to register your variety in Australia or overseas they will not be legally entitled to do so.
- 2. The variety must be new. It cannot have been sold, with the breeder's consent, in Australia at all or overseas for more than six years.
- The variety must be distinct, uniform and stable (DUS) for characteristics listed in the Objective Description form (available from the PVR Office). It must be distinct from all other known varieties in at least one important characteristic. Important in this context refers to botanical distinguishing features rather than to performance characteristics.

The applicant determines DUS from comparative growing trials using the new variety and the closest existing varieties in the same plots. The data is used to complete the Objective Description form. Only one reference site is required for the trials but the results must be repeatable at that site.

4. Some human intervention must have taken place, resulting in the new variety. Such intervention includes selective breeding (introduction and selection; controlled crossing and selection), establishment of a new cultivar, humanly induced mutation and identification of a natural mutation.

Applications are submitted to the PVR Office on the forms provided. Contact should be made with the Office as early as possible (preferably before beginning the trials) to ensure that the correct procedures are being followed.

Examination

The Examination of the application includes:

- An assessment of the written information provided, including the data from the comparative growing trials.
- A field examination of the trials by the PVR Examiner. This is to check the methodology used and to ensure that the data provided is reliable.
- The publication of the results of the trials and a full description of the variety in the Plant Varieties Journal with a six month period for people to raise objections to the grant of rights

 such objections must be based on concrete evidence to demonstrate why the variety is not eligible.

4. Other enquiries made by the PVR Office to establish the eligibility of the variety.

The objective is to demonstrate that the variety is distinct, uniform and stable and can be clearly identified by some form of repeatable assay at a reference site (the site where the original trials were carried out). It is to the applicant's advantage to define the variety as clearly as possible to minimise dispute and ascertain ownership with a high degree of certainty.

Although some field testing will always be needed for visual identification and marketing purposes, these could be minimised with the development of reliable standard methods for variety identification in the laboratory. Such assays would be more objective and repeatable than the field trials and ideally would be independent of environmental and management influences.

Progress is being made in this area but further work is required to identify the most appropriate method for each plant group or species. The inclusion of data from such assays is recommended as part of a PVR application.

There has been some concern that differences are based on botanical rather than merit or performance characteristics. The answer is that the former are more objective and can be measured more accurately. A variety may be different but may not have any greater merit under existing management or environmental conditions. Under different circumstances its performance may be enhanced considerably. The grant of PVR based on such subjective and variable assessments of merit would be of limited assistance to the breeder in defining the variety in sufficient detail to uphold a challenge to ownership.

PVR, based on objective differences, gives breeders the basic tool to promote and sell the variety. It is then up to him to convince the market of its advantages. Poor performers may sell the first year but repeat business is unlikely, as in any form of product marketing.

EXAMINATION OPTIONS

At the time of application, applicants can nominate whether they want the examination to proceed immediately or at a later time determined in conjunction with the PVR Office. In this context, examination includes the four steps listed above. If the "proceed immediately" option is nominated, the assessment and preparation of the description will begin and the description will be published as soon as all the information is supplied. The examination fee will be payable within three months of acceptance of the application.

If the option "not to proceed immediately" is nominated, a mutually agreeable date will be determined. 25% of the Examination fee will be payable within three months of acceptance of the application and the remainder within three months of the nominated date. With this option the PVR Office will not do any further work, after accepting

and inserting brief notification in the Journal, until the nominated date. The full description will not be prepared or published, delaying the commencement of the six month period for public comment. However, provisional protection will apply in the normal way.

PROVISIONAL PROTECTION — sale of the variety

Provisional protection applies from the time the application is accepted to the time PVR is granted or rejected if the variety has not been sold at all or sales have been restricted for scientific purposes or bulking up. Several organisations have raised the possibility of being able to commercially sell their varieties and still retain provisional protection under \$22

Comments received as a result of the request in the September 1989 issue of the Journal support the move to allow commercial sale of the variety during the period of provisional protection, on the basis that an applicant is not able to make any use of the protection unless PVR is actually granted.

An amendment is being proposed to delete S22(2)(b) to allow commercial sale of the variety during the provisional protection period.

In the interim, a regulation under S22 is also being considered to include sale for the purpose of conducting limited market evaluation.

ROSE TRIAL GROUND

The Faculty of Horticulture, University of Western Sydney (Hawkesbury) is currently undertaking a feasibility study on the establishment of an industry funded central trial ground for PVR rose applications. The concept was proposed as part of a National Rose Centre being promoted by the Rose Society of NSW. The Society has offered funds of up to \$10000 if the venture gets the goahead.

The Rose Centre would be the focal point for rose shows, competitions and exhibitions in Australia. It would be available as a public facility and could well be incorporated in tourist bus trips of the area.

The University is seeking the views of the rose industry in Australia to determine the management and funding of such an operation. In addition to the PVR field trials for roses, the University is also examining standard methods for laboratory assays, including isozyme analysis, to provide applicants with a complete trial centre.

The advantage to PVR applicants would be that the PVR trials would be done for them and all the reference varieties would be located in a central spot, ensuring that differences between varieties were clearly identified. Security would be maintained for the trials and there would be an agreed management program to ensure the quality of the product.

The advantages to the PVR Office would be significant. All varieties would be together, making identification of the differences more accurate. Field examinations would be more efficient and travel time currently spent visiting applicants around Australia would be reduced. Money saved could be used to assist with the operation of the garden.

The results from the feasibility study will be used as a basis for other industries which may be interested. Further information can be obtained from the Registrar.

AVAILABILITY OF PVR OVERSEAS FOR AUSTRALIAN BREEDERS

The establishment of PVR in Australia and the subsequent joining of UPOV gives Australian breeders the opportunity to apply for PVR overseas and gain the same protection when marketing internationally.

Most of the economically significant species are protected in other countries and Australian breeders are eligible to apply. However, in some places they will also have to apply to have the variety included on the national list, based on its performance relative to the varieties already included. This is often a much more difficult step than PVR.

With Australian native species there is some more work to be done as many overseas countries do not include them in their PVR regulations. The inclusion of such species may be slow in countries which do not accept applicant test results and the authorities do not have the necessary facilities to undertake the trials.

Other countries are expanding their PVR schemes to include all plant species and will accept applicant test results if government trial facilities are not available. The Federal Republic of Germany has agreed to accept the Australian PVR test results for Australian native species while application numbers remain small. Negotiations are underway for similar agreements with other countries.

UPOV

The proposed changes to the Convention were considered at the UPOV meetings in October 1989. The most significant items were:

- deferral of a decision on the coexistence of two systems (such as PVR and patents) for the protection of plant varieties
- clarification of the definition of variety to exclude from PVR plant material which cannot reproduce the whole plant
- a significant change in wording of Article 5 to specify the scope of the Convention and limit its application.

A new paper outlining these changes will be available from UPOV shortly. The group which considered the Convention at the July Workshop on *Intellectual Property Protection for Plants* will be reconvened when the UPOV paper is available. Others who would like to have input should contact the Registrar by 31 January 1990.

PVR TRIALS — Register of Names

The Plant Variety Rights Office is compiling a register of names (Appendix 6) of organisations who undertake PVR trials for other people or who will assist with preparing applications to overseas PVR Offices. This list will be given to anyone who asks and no preference will be given to any organisation. Organisations interested in being on the register should write to the Registrar. The PVR Office does not take any responsibility for the actions of these organisations.

PART 2 — MATTERS FOR PUBLIC NOTICE

PVR GRANTED

Plant Variety Rights have been granted under Section 26 of the *Plant Variety Rights Act* 1987, and entry has been made in the Plant Varieties Register for the following varieties:

1. 'Progrow' (Application No 88/010)

Lolium multiflorum ssp westerwoldicum

Grantee: Valley Seeds Pty Limited

Certificate No 13

Expiry Date: 26th August, 2008

2. 'Firefly' (Application No 88/031)

Anigozanthos hybrid

Grantee: NSW Agriculture & Fisheries and Ornamental Native Plants (Research) Pty Ltd

Certificate No 14

Expiry Date: 15th November,2008

3. 'Grasslands Koha' (Application No 88/035)
Ornithopus sativus

Grantee: Grasslands Division, DSIR on behalf of Her Majesty The Queen in Right of New Zealand

Certificate No 15

Expiry Date: 31st October,2008

APPLICATIONS ACCEPTED

The PVR applications listed below have been accepted under S18 of the *Plant Variety Rights Act* 1987.

a) Descriptions Finalised

IMPATIENS

(Impatiens hawkeri hybrid)

Comparative Growing Trials

All characteristics and comparisons below are from comparative growing trials conducted at Devon Meadows near Melbourne, Victoria in October 1989. Growing conditions were the same as used for commercial production. Five plants of each variety were grown in a pinebark based medium enriched with time-release fertilizer. They were situated in a heated, whitewashed poly-tunnel maintained between 16° and 30°C in 30% shade. Measurements represent 20 randomly chosen specimens from these five plants of each variety, taken in the fifth week after the cuttings were potted-on. Colour charting was done at six weeks.



Variety: 'Apollon' Application No. 89/032 Applicant: Kientzler KG of Gensingen, West Germany

Australian Agent: **R Rother** of Outeniqua Nursery, Emerald, Victoria.

Diagnosis

This variety is distinct from all other known varieties in having the following combination of characters: A medium size plant, lanceolate to elliptic leaves with dark green upper side, a red abaxial mid rib, lower side lamella pigmented red with red venation and yellow blade markings, a simple magenta flower.

Varieties used for comparison

'Corona', a Royalty Administration International C.V. variety, the closest known to 'Apollon' in flower colour and size, and which is a commonly known standard variety in Australia.

Origin

'Apollon' was selected from the seedling progeny of 3760 and 'Mimas', another Kientzler KG variety, in 1987. It has been protected by Plant Variety Rights in West Germany since 1989. Plant Variety Rights have been applied for in Denmark and Holland.

Morphology — See comparison tables. 'Apollon' is a hybrid Impatiens more compact in growth habit than 'Corona'. 'Apollon' also differs in having no eye-zone and more lanceolate and fewer elliptic leaves than 'Corona'.



Variety: 'Argus' Application No. 89/033

Applicant: **Kientzler KG** of Gensingen, West Germany

Australian Agent: **R Rother** of Outeniqua Nursery, Emerald, Victoria.

Diagnosis

This variety is distinct from all other known varieties in having the following combination of characters: A medium plant, dark green lanceolate to elliptic leaves with a yellow central variegation and rose red simple flower.

Varieties used for comparison

'Red Planet' and 'Solar Red', Royalty Administration International C.V. varieties, the closest known to 'Argus' in flower colour and size, and which are commonly known varieties in Australia.

Origin

'Argus' was selected from the progeny of A505 and A6060. Plant Variety Rights have been applied for in Denmark, Holland and West Germany.

Morphology — See comparison tables. 'Argus' is a hybrid Impatiens, compact in growth habit. It has dark green leaves with persistent yellow markings about a yellow midrib. Stems are lightly pigmented. 'Argus' differs from 'Red Planet' and 'Solar Red' in having larger flowers, a small indistinct 'eye zone' of purple apparent in the rose red flower, and more lanceolate than elliptic leaves.



Variety: 'Aurore' Application No. 89/034

Applicant: **Kientzler KG** of Gensingen, West Germany

Australian Agent: **R Rother** of Outeniqua Nursery, Emerald, Victoria.

Diagnosis

This variety is distinct from all other known varieties in having the following combination of characters: A medium plant, elliptic leaves, dark green upper side, red lower side, yellow central variegation, dutch vermilion red simple flower.

Varieties used for comparison

'Solar Red', a Royalty Administration International C.V. variety, the closest known to 'Aurore' in flower colour and size, and which is a commonly known variety in Australia.

Origin

'Aurore' was selected from the seedling progeny of 85–35–4 and 8501–2 in 1986. Plant Variety Rights have been applied for in Denmark, Holland and protected in West Germany since 1989.

Morphology — See comparison tables. 'Aurore' is a hybrid Impatiens, compact in growth habit. It has dark green leaves with narrow yellow markings about a red midrib. On the underside the lamella is also pigmented red. 'Aurore' differs from 'Solar Red' in having much broader leaves and narrow yellow-green leaf markings.



Impatiens 'Apollon' with comparative variety 'Corona'. (Photo supplied by applicant.)



Impatiens 'Argus' with comparative variety 'Red Planet'. (Photo supplied by applicant.)



Impatiens 'Aurore' with comparative variety 'Solar Red'. (Photo supplied by applicant.)

Variety: 'Celerio' Application No. 89/035

Applicant: **Kientzler KG** of Gensingen, West Germany

Australian Agent: **R Rother** of Outeniqua Nursery, Emerald, Victoria.

Diagnosis

This variety is distinct from all other known varieties in having the following combination of characters: A medium size plant, dark green oblanceolate leaves with yellow-green blade markings and a magenta/violet simple flower.

Varieties used for comparison

'Astra', (also known as 'Columbia'), and 'Gemini', Royalty Administration International C.V. varieties, the closest to 'Celerio' in flower colour and size, and which are commonly known varieties in Australia.

Origin

'Celerio' was selected from the progeny of B4015 and B3109 in 1985. Plant Variety Rights have been applied for in Denmark, Holland and West Germany.

Morphology — See comparison tables. 'Celerio' is a hybrid Impatiens, compact in growth habit with red stems. It has dark green leaves with a red midrib. On the underside the lamella is also pigmented red. A distinct but pale, salmon pink 'eye zone' is apparent in a simple flower with uneven petal margins. 'Celerio' differs from 'Astra' in having stronger coloured but smaller flowers. It also differs from 'Gemini' in being a smaller plant and having darker flower colour.

Variety: 'Delias' Application No. 89/036

Applicant: **Kientzler KG** of Gensingen, West Germany

Australian Agent: **R Rother** of Outeniqua Nursery, Emerald, Victoria.

Diagnosis

This variety is distinct from all other known varieties in having the following combination of characters: A medium plant, elliptic leaves, dark green upper side, green lower side lamella, light magenta simple flower with a deep magenta eye zone.

Varieties used for comparison

'Gemini' and 'Eclipse', Royalty Administration International C.V. varieties, the closest known to 'Delias' in flower colour and size, and which are commonly known varieties in Australia.

Origin

'Delias' was selected from the seedling progeny of 86–56–12 and 86–11–02 in 1987. Plant Variety Rights have been applied for in Denmark and West Germany.

Morphology — See comparison tables. 'Delias' is a hybrid Impatiens, compact in growth habit, smaller than 'Gemini' or 'Eclipse'. It has green leaves with markings absent and lower side venation red. A distinct 'eye zone' is apparent in the flower showing as a more intense magenta. Flower colour is stronger than 'Gemini' and magenta compared to the red of 'Eclipse'.



Variety: 'Epia' Application No. 89/037

Applicant: **Kientzler KG** of Gensingen, West Germany

Australian Agent: R Rother of Outeniqua Nursery, Emerald, Victoria.

Diagnosis

This variety is distinct from all other known varieties in having the following combination of characters: A small plant, elliptic leaves dark green upper side, red lamella lower side, a large dutch vermilion red simple flower.

Varieties used for comparison

'Red Planet', a Royalty Administration International C.V. variety, the closest known to 'Epia' in flower colour and size, and which is a commonly known variety in Australia.

Origin

The breeder was Kientzler KG of Gensingen, West Germany. 'Epia' was selected from the progeny of A590 and B2870. Plant Variety Rights have been applied for in Denmark and West Germany.

Morphology — See comparison tables. 'Epia' is a hybrid Impatiens, compact in growth habit and smaller than 'Red Planet'. It has dark green leaves with a red abaxial midrib and venation unlike 'Red Planet' which has yellow central leaf variegation. A distinct 'eye zone' is not apparent in the flower but the throat can show crimson.



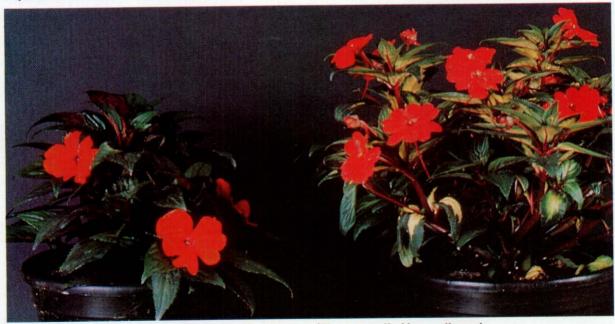
Impatiens 'Delias' with comparative variety 'Eclipse'. (Photo supplied by applicant.)



Impatiens 'Celerio' with comparative variety 'Corona'. (Photo supplied by applicant.)



Impatiens 'Delias' with comparative variety 'Gemini'. (Photo supplied by applicant.)



Impatiens 'Epia' with comparative variety 'Red Planet'. (Photo supplied by applicant.)

TABLE OF COMPARISON OF IMPATIENS VARIETIES

Characteristic	'Phoebis'	'Delias'	'Arctia'	'Thecla'	'Marumba'	*'Gemini'	*'Eclipse
PLANT HEIGHT			N-HI-TO				
mean (mm)	175	74	167	157	174	222	175
range	160-180	30-90	130-190	110-170	130-190	180-240	125-200
Std dev.	7	18	17	14	16	26	23
PLANT WIDTH			17/19/1901				
mean (mm)	335	296	347	312	347	350	250
range	320-360	220-320	310-370	290-320	320-395	320–360	358
Std dev.	12	12	18	6	19	18	330–380 16
LEAF LENGTH			THE STREET				
mean (mm)	110	112	110	108	94	135	104
range	92-122	98-128	92-122	95–131	90–118	112-170	91–140
Std dev.	12	3	6	4	4	8	7
LEAF WIDTH							
mean (mm)	30	35	37	34	36	43	32
range	28-32	32-41	32-42	32-42	31–40	33–48	29–36
Std dev.	2.0	1.5	1.5	1.8	2.0	1.8	1.7
LEAF SHAPE	elliptic	elliptic	elliptic	elliptic	elliptic	lanceolate	elliptic
LEAF COLOUR	147A	147A	139A	137A	147A	139A	139A
BLADE MARKING	Sabsent	absent	151A	absent	absent	151B	absent
FLOWER DIAMET	TER	EXTENSE					
mean (mm)	61	58	66	63	52	63	63
range	58-62	52-60	58-69	58-67	46-54	59-66	53-71
Std dev.	1.5	3.0	0.5	1.5	0.5	3.0	6
LOWER COLOU	R						
primary	75B	66C	57B	58B	40A	67D	40A
TIME TO START	FLOWERING		jie.				
mean (days)	30	32	28	28	32	30	30
range	29-32	30-32	26-29	26-30	30–33	29-32	28–31
Std dev.	0.2	0.2	0.2	0.2	0.4	0.2	0.2

TABLE OF COMPARISON OF IMPATIENS VARIETIES

Characteristic	'Aurore'	'Selenia'	'Argus'	'Epia'	*'Solar Red'	*'Red Plane
PLANT HEIGHT						
mean (mm)	166	148	155	128	168	142
range	130-170	110-170	125–170	90–135	130–190	140–170
Std dev.	13	25	9	14	17 	18
PLANT WIDTH						
mean (mm)	360	358	363	308	358	323
range	330-390	330-370	345–380	302-312	330–370	310–355
Std dev.	9	14	7	5	14	13
LEAF LENGTH						
mean (mm)	102	116	100	109	98	110
range	87–118	92-128	96-119	92-132	7 9 –115	87–136
Std dev.	4.5	5	2.6	2.9	5.0	3.6
LEAF WIDTH						
mean (mm)	52	34	42	34	31	37
range	46-56	31-42	36-46	32-38	28–33	34–41
Std dev.	1.0	0.6	1.0	1.2	0.3	1.8
LEAF SHAPE	elliptic	elliptic	lanc-elliptic	elliptic	elliptic	elliptic
LEAF COLOUR	147A	139A	147A	137A	147A	147A
BLADE MARKINGS	11A	absent	7D	absent	10A	10A
FLOWER DIAMETER						
mean (mm)	52	61	66	56	51	56
range	44-56	50-64	62-74	43-58	47-54	50-59
Std dev.	1.2	0.5	1.8	0.5	0.2	0.3
FLOWER COLOUR						
primary	40AB	33A	57B	40A	40A	40A
EYE ZONE/COLOUR	absent	absent	74A	absent	absent	absent
TIME TO START FLO	WERING					
mean (days)	35	32	30	45	28	30
range	32–36	30–34	28-31	42	26-30	28-35
Std dev.	0.5	0.2	0.3	47	0.5	1.0



Variety: 'Eurema' Application No. 89/038

Applicant: **Kientzler KG** of Gensingen, West Germany

Australian Agent: **R Rother** of Outeniqua Nursery, Emerald, Victoria.

Diagnosis

This variety is distinct from all other known varieties in having the following combination of characters: A small plant, dark green elliptic leaves with a yellow central marking about a red abaxial midrib, a light red simple flower.

Varieties used for comparison

'Gemini', a Royalty Administration International C.V. variety, the closest known to 'Eurema' in flower colour and size, and which is a commonly known variety in Australia.

Origin

'Eurema' was selected from the progeny of A590 and B2870 cross. Plant Variety Rights have been applied for in Denmark and West Germany.

Morphology — See comparison tables.

'Eurema' is a hybrid Impatiens, compact in growth habit shorter than 'Gemini'. It has larger and elliptic dark green leaves with persistent yellow markings about a red midrib. On the underside the lamella is also pigmented red. A distinct 'eye zone' is not apparent in the flower which may fade at the centre but the throat can show crimson.



Variety: 'Flambee' Application No. 89/039

Applicant: **Kientzler KG** of Gensingen, West Germany

Australian Agent: **R Rother** of Outeniqua Nursery, Emerald, Victoria.

Diagnosis

This variety is distinct from all other known varieties in having the following combination of characters: A medium plant, mid green broad elliptic leaves, simple white flower with pink blush upper side, full orange lower side.

Varieties used for comparison

'Twilight', a Royalty Administration International C.V. variety, the closest known to 'Flambee' in flower colour and size, and which is a commonly known variety in Australia.

Origin

'Flambee' was selected from the progeny of B3155 and B3710. Plant Variety Rights have been applied for in Denmark and West Germany.

Morphology — See comparison tables.

'Flambee' is a hybrid Impatiens, compact in growth habit and much smaller than 'Twilight'. It has green leaves with a red midrib and pigmented stems but without central variegation present in 'Twilight'. The simple flowers of white ground colour are blushed with pink on the basal petal and streaked down the centre of the others. The reverse side is an even vermilion.



Variety: 'Jasius' Application No. 89/040

Applicant: **Kientzler KG** of Gensingen, West Germany

Australian Agent: **R Rother** of Outeniqua Nursery, Emerald, Victoria.

Diagnosis

This variety is distinct from all other known varieties in having the following combination of characters: A medium size plant, dark green lanceolate to oblanceolate leaves, and a white simple flower.

Varieties used for comparison

'Milky Way', a Royalty Administration International C.V. variety, the closest known to 'Jasius' in flower colour and size, and which is a commonly known variety in Australia.

Origin

'Jasius' was selected from the seedling progeny of B3400 and 'Milky Way' in 1985. It has been protected by Plant Variety Rights in West Germany since 1989. Plant Variety Rights have been applied for in Denmark and Holland.

Morphology — See comparison tables. 'Jasius' is a hybrid Impatiens, compact in growth habit. It has dark green leaves which may be slightly falcate. The flower is larger than 'Milky Way'. Stems are pale green.



Impatiens 'Eurema'. (Photo supplied by applicant.)



Impatiens 'Flambee' with comparative variety 'Twilight'. (Photo supplied by applicant.)



Impatiens 'Jasius' with comparative variety 'Milky Way'. (Photo supplied by applicant.)



Variety: 'Marumba' Application No. 89/041

Applicant: **Kientzler KG** of Gensingen, West Germany

Australian Agent: **R Rother** of Outeniqua Nursery, Emerald, Victoria.

Diagnosis

This variety is distinct from all other known varieties in having the following combination of characters: A medium plant, elliptic leaves, dark green upper side, red pigmented lower side lamella, small dutch vermilion red simple flower.

Varieties used for comparison

'Eclipse', a Royalty Administration International C.V. variety, the closest known to 'Marumba' in flower colour and size, and which is a commonly known variety in Australia.

Origin

'Marumba' was selected from the seedling progeny of A615 and B3477 in 1987. 'Marumba' has been protected by Plant Variety Rights in Holland and West Germany since 1989.

Morphology — See comparison tables. 'Marumba' is a hybrid Impatiens, compact in growth habit. It has dark green leaves with a red midrib. On the underside the lamella is also pigmented red in contrast to 'Eclipse' and has smaller flowers.



Variety: 'Mimas' Application No. 89/042

Applicant: **Kientzler KG** of Gensingen, West Germany

Australian Agent: **R Rother** of Outeniqua Nursery, Emerald, Victoria.

Diagnosis

This variety is distinct from all other known varieties in having the following combination of characters: A medium size plant, lanceolate to oblanceolate dark green leaves with a yellow central variegation, lower side lamella green with red venation, fuchsia purple simple flower.

Varieties used for comparison

'Cosmos', a Royalty Administration International C.V. variety, the closest known to 'Mimas' in flower colour and size, and 'Corona' which is a commonly known standard variety in Australia.

Origin

'Mimas' was selected from the seedling progeny of 84–80–6 and 84–07–2 in 1984. It has been protected by Plant Variety Rights in West Germany since 1986. Plant Variety Rights have been applied for in Denmark and Holland.

Morphology — See comparison tables. 'Mimas' is a hybrid Impatiens, compact in growth habit. It has shorter and wider, dark green, more lanceolate leaves than 'Cosmos' with yellow markings about a red midrib. On the underside the lamella is also pigmented red.



Variety: 'Saturnia' Application No. 89/043

Applicant: Kientzler KG of Gensingen, West Germany

Australian Agent: **R Rother** of Outeniqua Nursery, Emerald, Victoria.

Diagnosis

This variety is distinct from all other known varieties in having the following combination of characters: A small plant, dark green elliptic leaves, no variegation, violet purple simple flower.

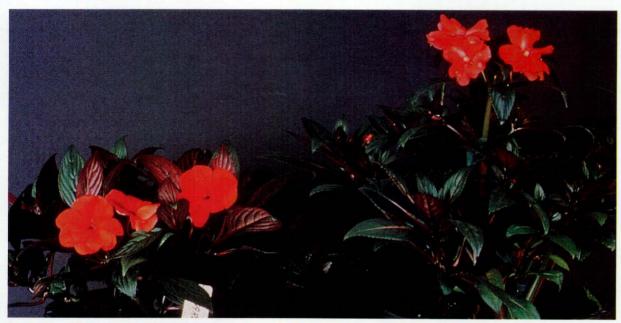
Varieties used for comparison

'Corona', a Royalty Administration International C.V. variety, the closest known to 'Saturnia' in flower colour and size, and which is a commonly known variety in Australia.

Origin

'Saturnia' was selected from the seedling progeny of A720 and B2880 in 1987. Plant Variety Rights have been applied for in Denmark and Holland, and has been protected in West Germany since 1987.

Morphology — See comparison tables. 'Saturnia' is a hybrid Impatiens, compact in growth habit and smaller than 'Corona'. It has dark green leaves with persistent yellow markings about a red midrib. On the underside the lamella is also pigmented red.



Impatiens 'Marumba' with comparative variety 'Eclipse'. (Photo supplied by applicant.)



Impatiens 'Mimas' with comparative variety 'Cosmos'. (Photo supplied by applicant.)



Impatiens 'Saturnia' with comparative variety 'Corona'. (Photo supplied by applicant.)

TABLE OF COMPARISON OF IMPATIENS VARIETIES

Characteristic	'Mimas'	'Apollon'	'Saturnia'	'Sylvine'	*'Cosmos'	*'Corona'
PLANT HEIGHT						
mean (mm)	190	175	170	165	205	230
range	170-200	160-180	150-180	140-180	180-230	210-250
Std dev.	6	12	8	7	8	12
PLANT WIDTH	MALE					
mean (mm)	400	370	370	360	380	440
range	375-410	360-380	350-400	340-370	360-390	430–460
Std dev.	7	11	12	14	8	16
LEAF LENGTH						
mean (mm)	118	116	106	120	139	128
range	110-140	98-137	96-114	93-140	111–145	112-144
Std dev.	12	14	12	12	9	14
LEAF WIDTH						
mean (mm)	40	52	38	46	31	47
range	36-38	37-55	34-44	40-55	24-36	42-55
Std dev.	3	5	4	5	4	3
LEAF SHAPE	lanceolate	lanc-elliptic	elliptic	elliptic	narrow elliptic elliptic	
LEAF COLOUR	137A	137A	147A	137A	139B	139B
BLADE MARKINGS	10A	11A	absent	absent	12A	12A
FLOWER DIAMETER						
mean (mm)	60	60	60	53	43	61
range	56-66	54-63	58-64	47-56	37-52	57-63
Std dev.	4	5	1	4	5	1
FLOWER COLOUR						
primary	66B	66B	77C-75A	75A	57A	73A
EYE ZONE/COLOUR	absent	absent	absent	57B	(56B)	66A
TIME TO START FLO	WERING					
mean (days)	30	35	30	30	30	32
range	28-31	29-37	29-31	28-32	27-31	31-36
Std dev.	1	2.0	1.0	1.3	1.4	2.0

TABLE OF COMPARISON OF IMPATIENS VARIETIES

Characteristic	'Flambee'	'Vulcain'	'Celerio'	'Astra'	*'Twilight'	*'Gemini'
PLANT HEIGHT						
mean (mm)	70	90	157	240	165	222
range	44-91	70-120	130–190	230–250	123–172	180-240
Std dev.	10	20	18	24 		<u> </u>
PLANT WIDTH					200	350
mean (mm)	320	335	334	380	366 346–379	320-360
range	313-341	315–340	320-360	350–410	346–379 6.6	18
Std dev.	8.5	22	12	21		
LEAF LENGTH				450	105	135
mean (mm)	98	126	102	150	105 95–130	112–170
range	90–111	115–144	93–113	121–160	2.5	8
Std dev.	2.3	6.0	6 			
LEAF WIDTH			.=	40	33	43
mean (mm)	36	36	37	43 37–50	33 29–40	43 33–48
range	36–47	31–50	32–46	37-50 3.5	2 5-40 1.6	1.8
Std dev.	1.8	8.0	2.5	3.5		
LEAF SHAPE	elliptic	lanceolate	oblate-lanc	elliptic	lanc-elliptic	lanceolate
LEAF COLOUR	137A	137A	139A	147A	137A	139A
BLADE MARKINGS	absent	9B	153C	151B	153B	151B
FLOWER DIAMETER					· · · · · · · · · · · · · · · · · · ·	
mean (mm)	53	58	62	67	52	63
range	48-60	52-63	56-64	59-72	46-58	59–66
Std dev.	1.0	3.5	2.0	3.8	1.1	3.0
FLOWER COLOUR		<u> </u>				
primary	62B-C-63D	62D	66A	73D-65B	65D-40B	67D
EYE ZONE/COLOUR	na	na	49D	na	na	na
TIME TO START FLO	WERING					
mean (days)	30	30	30	32	30	30
range	28–31	2831	29-31	31–32	27–32	29–32
Std dev.	0.75	0.2	0.1	0.1	0.85	0.2



Variety: 'Selenia' Application No. 89/044

Applicant: **Kientzler KG** of Gensingen, West Germany

Australian Agent: **R Rother** of Outeniqua Nursery, Emerald, Victoria.

Diagnosis

This variety is distinct from all other known varieties in having the following combination of characters: A small plant, long and narrow lanceolate to elliptic leaves, dark green upper side, green lower side, and a red simple flower.

Varieties used for comparison

'Solar Red', a Royalty Administration International C.V. variety, the closest known to 'Selenia' in flower colour and size, and which is a commonly known variety in Australia.

Origin

'Selenia' was selected from the seedling progeny of 85–17–3 and 85–82–1 in 1985. It has been protected by Plant Variety Rights in West Germany since 1988. Plant Variety Rights have been applied for in Denmark and Holland.

Morphology — See comparison tables. 'Selenia' is a hybrid Impatiens, compact in growth habit. It has dark green leaves with light green midrib upper side and lower side of the lamella. Unlike 'Solar Red', leaf markings are absent, flowers larger and more orange than red.



Variety: 'Thecla' Application No. 89/046

Applicant: **Kientzler KG** of Gensingen, West Germany

Australian Agent: **R Rother** of Outeniqua Nursery, Emerald, Victoria.

Diagnosis

This variety is distinct from all other known varieties in having the following combination of characters: A medium size plant, dark green elliptic leaves, rose red and white simple flower.

Varieties used for comparison

'Gemini', a Royalty Administration International C.V. variety, the closest known to 'Thecla' in flower colour and size, and which is a commonly known variety in Australia.

Origin

'Thecla' was selected from the seedling progeny of B2955 and B3610. It has been protected by Plant Variety Rights in West Germany since 1987. Plant Variety Rights have been applied for in Denmark and Holland.

Morphology — See comparison tables.

'Thecla' is a hybrid Impatiens, compact in growth habit and smaller than 'Gemini'. It has dark green leaves upper side, lower side lamella pigmented red with red venation, midrib and stems. Unlike 'Gemini' which has lanceolate leaves, 'Thecla's' smaller elliptic leaves have no central markings. A distinct 'eye zone' is not apparent in the flower but the throat shows the same petal colour with more intensity.



Variety: 'Vulcain' Application No. 89/047

Applicant: **Kientzler KG** of Gensingen, West Germany

Australian Agent: **R Rother** of Outeniqua Nursery, Emerald, Victoria.

Diagnosis

This variety is distinct from all other known varieties in having the following combination of characters: A small size plant, dark green lanceolate leaves, under side lamella pigmented red, pale simple flower with pink blush.

Varieties used for comparison

'Astra', a Royalty Administration International C.V. variety, (also known as 'Columbia'), the closest known to 'Vulcain' in flower colour and size, and which is a commonly known variety in Australia.

Origin

'Vulcain' was selected from the seedling progeny of B3308 and B3702. It has been protected by plant Variety Rights in West Germany since 1989. Plant Variety Rights have been applied for in Denmark and Holland.

Morphology — See comparison tables. 'Vulcain' is a hybrid Impatiens, compact in growth habit much smaller than 'Astra'. It has dark green lanceolate leaves and red midrib. On the underside the lamella is also pigmented red. 'Vulcain' has a paler flower than 'Astra'.



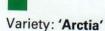
Impatiens 'Selenia'. (Photo supplied by applicant.)



Impatiens 'Thecla' with comparative variety 'Gemini'. (Photo supplied by applicant.)



Impatiens 'Vulcain' with comparative variety 'Astra'. (Photo supplied by applicant.)



(commercial synonym 'Aglia') Application No. 89/048

Applicant: Kientzler KG of Gensingen, West Germany

Australian Agent: **R Rother** of Outeniqua Nursery, Emerald, Victoria.

Diagnosis

This variety is distinct from all other known varieties in having the following combination of characters: A medium plant, dark green elliptic and variegate leaves, simple magenta flower.

Varieties used for comparison

'Gemini', a Royalty Administration International C.V. variety, the closest known to 'Arctia' in flower colour and size, and which is a commonly known variety in Australia.

Origin

'Arctia' was selected from the seedling progeny of 85–04–7 and 85–32–1. 'Arctia' has been protected by Plant Variety Rights in West Germany since April 1989.

Morphology — See comparison tables. 'Arctia' is a hybrid Impatiens, compact in growth habit shorter than 'Gemini'. It has dark green leaves with yellow green markings about a green midrib upper side. On the underside of the lamella veins are lightly pigmented as are the stems. The flower is more red than purple of 'Gemini'.



Variety: 'Phoebis' Application No. 89/099

Applicant: Kientzler KG of Gensingen, West Germany

Australian Agent: **R Rother** of Outeniqua Nursery, Emerald, Victoria.

Diagnosis

This variety is distinct from all other known varieties in having the following combination of characters: A medium plant, dark green elliptic leaves with a red lower side lamella, no variegation, and a purple simple flower.

Varieties used for comparison

'Gemini', a Royalty Administration International C.V. variety, the closest known to 'Phoebis' in flower colour and size, and which is a commonly known variety in Australia.

Origin

'Phoebis' was selected from the seedling progeny of 85–09–8 and 85–31–1 in 1985. Plant Variety Rights have been granted in West Germany and applied for in Denmark and Holland. Morphology — See comparison tables. 'Phoebis' is a hybrid Impatiens, compact in growth habit smaller than 'Gemini'. It has smaller dark green leaves with a red lamella, lower side venation and stems. A small 'eye zone' is apparent in the roseine flower compared with the purple flower of 'Gemini'.



Variety: 'Sylvine' Application No. 89/100

Applicant: Kientzler KG of Gensingen, West Germany

Australian Agent: **R Rother** of Outeniqua Nursery, Emerald, Victoria.

Diagnosis

This variety is distinct from all other known varieties in having the following combination of characters: A medium plant, dark green elliptic leaves with red lower side lamella, a rose purple simple flower.

Varieties used for comparison

'Corona', a Royalty Administration International C.V. variety, the closest known to 'Sylvine' in flower colour and size, and which is a commonly known variety in Australia.

Origin

'Sylvine' was selected from the seedling progeny of 85–19–2 under controlled pollination with 85– 12–1 in 1985. Plant Variety Rights have been granted in West Germany and have been applied for in Denmark and Holland.

Morphology — See comparison tables. 'Sylvine' is a hybrid Impatiens, compact in growth habit and much smaller than 'Corona'. It has dark green leaves with a red midrib and no yellow control blade making as has 'Corona'. On the underside the lamella is also pigmented red. An 'eye zone' is not distinct as such. The petals are striped with rose bengal over rose purple.



Impatiens 'Arctia' with comparative variety 'Gemini'. (Photo supplied by applicant.)



Impatiens 'Phoebis' with comparative variety 'Corona'. (Photo supplied by applicant.)



Impatiens 'Sylvine' with comparative variety 'Corona'. (Photo supplied by applicant.)

TABLE OF COMPARISON OF IMPATIENS VARIETIES

Characteristic	'Jasius'	*'Milky Way'	'Eurema'	*'Gemini
PLANT HEIGHT				
mean (mm)	135	190	165	222
range	120-150	170-220	130-190	180-240
Std dev.	10	13	16	26
PLANT WIDTH				
	240	200	050	
mean (mm)	346	360	350	350
range	320-360	350–370	315-370	320-360
Std dev.	18	10	20	18
LEAF LENGTH				
mean (mm)	142	110	110	135
range	120-165	73–128	92–144	
				112–170
Std dev.	16	23	12	8
LEAF WIDTH				
mean (mm)	29	27	42	43
range	26-31	23-30	34-51	33-48
Std dev.	1.5	1.9	3.0	1.8
		1.0	0.0	1.0
LEAF SHAPE	lanceolate	elliptic	elliptic	lanceolate
LEAF COLOUR	137A	137B	139A	139A
BLADE MARKINGS	absent	absent	151A	151B
FLOWER DIAMETER				
mean (mm)	60	48	55	63
	54-63	42-54	48–57	
range				59-66
Std dev.	2.5	2.5	3	3.0
FLOWER COLOUR	white	white		
primary			41B	67D
EYE ZONE/COLOUR	absent	absent	absent	absent
TIME TO START FLO	WERING	www.j = 15,-570		
mean (days)	29	32	32	30
range	27-30	31–33	30–32	29–32
Std dev.	1.0	1.0	NOT THE REAL PROPERTY.	
olu dev.	1.0	1.0	0.2	0.2

CHENILLE PLANT

(Acalypha chamaedrifolia)



Variety: 'Pink Candles' Application No. 89/081

Applicant: John Churchus, of Pixie Plants, Devon Meadows, Victoria.

Diagnosis

This variety is distinct from all other known varieties in having the following combination of characters: a dwarf prostrate growth habit with occasional adventitious trailing stems; dense foliage with small pubescent leaves; multiflowered pistillate pink spikes corresponding in colour to RHS 48A and single, double or triple flowers of similar colour in leaf axils.

Varieties used for comparison

'Summer Love' (also known as 'Firetails') being the parent variety.

Comparative Growing Trials

All characteristics and comparisons below are from comparative growing trials conducted at Devon Meadows on the Mornington Peninsula of Victoria in August 1989. Cuttings of each variety were repropagated in 20 cm pots in potting media and maintained in heated polythene greenhouses maintained above 15°C. Measurements are from 20 plants.

Origin

The variety arises from a naturally pollinated seedling of 'Summer Love' at the applicant's premises in February, 1988. The plant was subsequently propagated asexually to form the variety 'Pink Candles'.

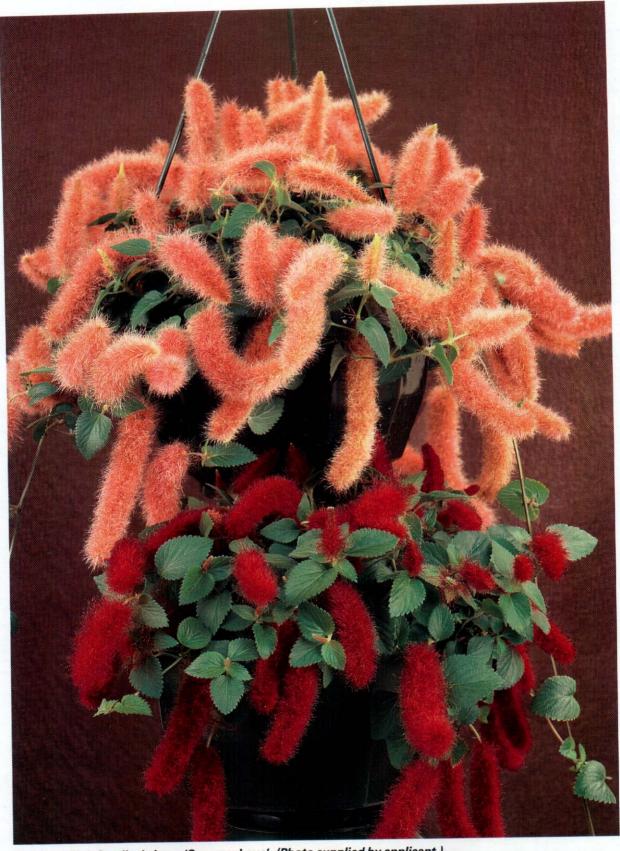
Morphology — See comparison tables.

The plant is a compact prostrate perennial herb with occasional trailing stems. The leaves are ovate, serrated, pubescent on both sides, stipulate, and arranged alternately except immediately beneath the terminal spike where they occur as opposite doubles or triples. The stems are also pubescent. The predominant flower structure is a terminal pistillate spike which is commonly erect and conical when immature but cylindrical and pendulous when mature. Other flowers occur as singles, doubles and triples in the axils of leaves and on trailing stems.

'Pink Candles' is distinct from 'Summer Love' in having pink flower spikes (matching RHS 48A) whereas those of 'Summer Love' are red (matching RHS 53A). 'Pink Candles' is also more compact in growth form than 'Summer Love', having smaller leaves and shorter petioles. The pistillate spikes are of similar length but are wider in 'Pink Candles' when fully mature. 'Pink Candles' also produces fewer trailing stems than 'Summer Love'.

TABLE OF COMPARISON OF ACALYPHA VARIETIES

mean range standard deviation mean range standard deviation mean range standard deviation	25.4 mm 20–32 4.08 19.65 mm 17–29 3.1 9.4 mm 5–14 2.95	34.15 mm 29–40 3.01 26.25 mm 21–30 2.2
range standard deviation mean range standard deviation mean range	20–32 4.08 19.65 mm 17–29 3.1 9.4 mm 5–14	29–40 3.01 26.25 mm 21–30 2.2
standard deviation mean range standard deviation mean range	4.08 19.65 mm 17–29 3.1 9.4 mm 5–14	3.01 26.25 mm 21–30 2.2
range standard deviation mean range	17–29 3.1 9.4 mm 5–14	21–30 2.2 13.15 mm
standard deviation mean range	17–29 3.1 9.4 mm 5–14	21–30 2.2 13.15 mm
standard deviation mean range	9.4 mm 5–14	2.2 13.15 mm
range	5–14	
range	5–14	
	2.00	2.18
mean	95 65 mm	82.3 mm
		65–93
standard deviation	4.36	4.36
mean	26 35 mm	21.2 mm
		18–25
standard deviation	2.28	1.68
mean	25.3 mm	26.8 mm
		19–32
standard deviation	6.32	3.87
mean	13.4 mm	15.5 mm
	13–14	15–17
standard deviation	0.55	0.89
	2.5	7.5
	pink	red RHS 53A
	mean range standard deviation mean range standard deviation mean range	range standard deviation 4.36 mean 26.35 mm 21–30 standard deviation 2.28 mean 25.3 mm 15–35 standard deviation 6.32 mean 13.4 mm 13–14 standard deviation 0.55 2.5



Acalypha 'Pink Candles' above 'Summer Love'. (Photo supplied by applicant.)

CHICKPEA (Cicer arietinum)



Variety: 'Narayen' Application No. 89/082

Applicant: CSIRO Division of Tropical Crops and Pastures of St. Lucia, Queensland.

Diagnosis

This variety is distinct from other known varieties in having: a globose or rounded seed shape, white flowers and no anthocyanin pigmentation in stems or leaves, pubescent stems and leaves, leaflet width greater than the 'Desi' varieties but less than the 'Kabuli' varieties.

Varieties used for comparison

Desi varieties 'Tyson', 'Amethyst', and 'Dooen', and Kabuli varieties 'Opal', 'Garnet', 'Kaniva' and 'Macarena'.

Comparative Growing Trials

All characteristics described and comparisons made are from growing trials planted at CSIRO research site at Dalby Agricultural College, Dalby, Queensland on 31 May 1988. There were four replicates of plots 6 metres long by four rows which were spaced 40 cm apart. Plant density approximated 8 per linear metre for Desi varieties, 3 per metre for 'Macarena' and 6 per metre for other varieties. Plant morphology, pod and seed measurements were made on 5 plants per plot while leaf measurements were from 10 leaves of each variety.

Origin

'Narayen' was derived by selection of an open pollinated line from the accession K223 which was

introduced into Australia from Russia in the late 1940's and kept in cold store until 1974.

Initial selection K223 was made in comparative trials conducted by CSIRO and Queensland Department of Primary Industries during the period 1974 to 1979. Selection within line K223 for 3 generations by D F Beech and B C Imrie of CSIRO produced 'Narayen' with uniformity of plant morphology and seed size, shape and colour.

Morphology' — See table of comparison.
'Narayen differs from the Desi and Kabuli varieties in having rounded cream coloured seeds. The Desi varieties have angular 'ram's head' shaped seeds which are brown in colour. The Kabuli varieties have 'brain' shaped seeds. 'Narayen' has larger seeds than 'Tyson' and 'Amethyst', and smaller seeds than 'Opal', 'Garnet', 'Kaniva' and 'Macarena'.

'Narayen' has 12–15 lanceolate leaflets per leaf whereas 'Macarena' has 1–4 longer and wider ovate to obovate leaflets per leaf.

'Narayen' has pubescent leaves and stems whereas 'Tyson' and 'Amethyst' are almost free of pubescence.

'Narayen' has no anthocyanin pigmentation in leaves or stems, and white flowers. 'Tyson', 'Amethyst' and 'Dooen' are pigmented and have pink flowers.

Agronomy

Line K223 from which 'Narayen' is derived produced seed yields not significantly different from those of 'Tyson' on black cracking clay soils on the Darling Downs. It has a higher flour yield than those cultivars and is considered suitable for flour production.



Cicer 'Narayen' seed (centre) showing typical globose shape between 'Tyson' (left) and 'Opal' (right). (Photo supplied by applicant.)

TABLE OF COMPARISON OF CHICK PEA VARIETIES

(* = existing varieties used for comparison)

Character		'Narayen'	* 'Dooen'	* 'Amethys	t'* 'Tyson'	* 'Opal'	* 'Garnet'	* 'Kaniva'	* 'Macarena
Pubescence		present	present	slight	slight	present	present	present	present
Pigmentation		absent	week	weak	weak	absent	absent	absent	absent
Seed Shape (IBPGR	codes)	3	1	1	1	2	2	2	2
Flower Colour		white	pink	pink	pink	white	white	white	white
		13.6 12–15 0.97	13.9 11–16 1.66	13.1 11–15 1.45	14.5 13–16 1.08	14.2 11–16 1.69	13.8 12–16 1.03	14.5 13–16 0.97	2.1 1–4 1.10 P0.01
Leaflet width (mm) Std dev Signifi	range viation	7.4 6.7–8.0 0.40	6.8 5.3–8.3 1.05	6.3 4.0–8.3 1.42	6.8 5.0–8.3 1.03	8.3 6.7–11.0 1.46	9.3 7.3–11.3 1.12 P0.05	9.4 8.0–11.7 1.11 P0.05	17.4 11.0–24.0 4.22 P0.01
Plant height (cm) Std dev Signifi		57 53–60 2.9	58 57–60 1.3	60 58–63 2.2	48 43–50 3.9 P0.01	57 55–60 2.4	62 58–68 5.1	60 58–63 2.2	46 42–50 4.4 P0.01
Basal Branches Std dev		2.5 1–4 0.69	2.1 1–4 0.83	2.0 0-3 0.86	2.0 1–3 0.62	1.8 1–4 0.92	2.0 0–4 0.93	1.9 0-3 0.83 P0.01	1.6 1–4 0.89
Pod length (mm) Std dev		23.9 22.6–26.0 0.77	23.6 20.0–25.4 8.9	21.2 19.2–22.4 8.5 P0.01	20.4 16.2–22.1 8.3 P0.01	25.0 20.0–29.0 12.0	28.7 24.6–31.8 12.6 P0.01	28.2 23.4–31.4 13.1 P0.01	32.5 28.8–36.0 14.0 P0.01
Pod width (mm) Std dev Signifi	mean range riation icance	10.1 9.4–11.4 0.42	8.9 7.8–9.4 0.33 P0.01	8.5 7.8–9.4 0.37 P0.01	8.3 7.4–8.8 0.39 P0.01	12.0 11.0–12.8 0.50 P0.01	12.6 10.8–13.6 0.63 P0.01	13.1 11.4–14.4 0.92 P0.01	14.0 12.8–15.8 0.86 P0.01
Pod L:W ratio		2.4	2.7	2.5	2.5	2.1	2.3	2.2	2.3
Pods per plant Std dev Signifi	mean range viation icance	121 24–324 69.1	89 18–178 48.5	93 25–201 40.5	142 33–281 64.8	60 10–187 41.2 P0.01	70 15–192 44.8 P0.01	48 7–97 26.1 P0.01	59 20–157 32.3 P0.01
Seeds per pod Std dev Signifi		1.3 1.0–1.8 0.20	1.1 1.0–1.4 0.15 P0.01	1.6 1.0–2.0 0.30	1.5 1.0–1.8 0.23	1.0 1.0–1.2 0.07 P0.01	1.0 1.0–1.2 0.07 P0.01	1.1 1.0–1.4 0.12 P0.01	1.1 1.0–1.4 0.15 P0.01
Seed wght. per 1000	mean	180g	186g	132g	124g	379g	421g	452g	571g



Cicer 'Narayen' white flower (right) beside purple flower of 'Tyson' (left). (Photo supplied by applicant.)

PINTO PEANUT (Arachis sp.)

Variety: 'Amarillo' Application No. 89/086

Applicant: Queensland Department of Primary Industries, CSIRO Division of Tropical Crops & Pastures of Brisbane, Queensland and NSW Agriculture & Fisheries of Sydney, NSW

Diagnosis

This variety is distinct from all other known varieties in having the following combination of characters: Leaflets obovate and oblong-obovate, obtuse at the apex and slightly cordate at the base; a stoloniferous growth habit; a small yellow flower and a prolific seed set.

Varieties used for comparison

'Arb' and 'Arblick' being other forage Arachis.

Comparative Growing Trials

All characters described are from growing trials at Gympie, Queensland in 1989. Trials have also been carried out at Grafton, New South Wales,(Lat 29°43'S) and Gympie (Lat 26°11'S) and South Johnstone (Lat 17°36'S) Queensland.

Origin

The main contributory breeders are B.G. Cook (Qld DPI), R.J. Williams (CSIRO) and G.P.M. Wilson (NSW Agriculture and Fisheries). 'Amarillo' was selected between 1972 and 1987 from forty perennial accessions. The trials were carried out in Queensland and New South Wales with selection on the basis of seed production, dry matter yield, feed quality and shade tolerance. 'Amarillo' arises from material which has been placed in a species pintoi nom. nud. (see P.M. Resslar in 'A Review of The Nomenclature of the Genus Arachis L.', Euphytica Vol 29, 1980 pp 813–817.

Morphology — See comparison tables.

'Amarillo'is a prostrate perennial herb. It is distinct from 'Arb' & 'Arblick' in its stoloniferous growth habit, leaflets which are obovate to oblong-obovate, obtuse at the apex and slightly cordate at the base whereas 'Arb' and 'Arblick' have rhizomatous growth habit and leaflets which are oblanceolate acute at the apex and cuneate at the base. Standards on the flowers of 'Amarillo' are about half the width of those of 'Arb' and 'Arblick' and yellow compared with light orange in the latter two varieties.

Agronomy

'Amarillo' has a mat forming habit in a sward. It is intended for grazing in subtropical and tropical environments.



Arachis 'Amarillo' sward. (Photo supplied by applicant.)

Table of comparative varieties of Arachis

Varieties:	'AMARILLO'	'ARB'	'ARBLICK'	
ROOTING HABIT	stoloniferous	rhizomatous	rhizomatous	
LEAFLET SHAPE	obovate to oblong-obovate	oblanceolate	oblanceolate	
LEAFLET APEX SHAPE	obtuse	acute	acute	
LEAFLET BASE SHAPE	slightly cordate	cuneate	cuneate	
FLOWER COLOUR yellow with orange striations		light orange	light orange	

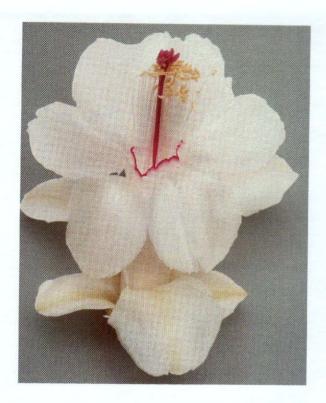
CHRISTMAS CACTUS

(Schlumbergera truncatus hybrids)

Comparative Growing Trials

All characteristics and comparisons are from comparative growing trials conducted at Winter Garden, Florida USA (Latitude 30°N) during the years 1987 and 1988, in light-reduced glasshouses with temperatures held within 15–35° C and relative humidity maintained above 65%. Plants of each variety were grown from single phylloclades in 10 cm pots in a peat/polystyrene growing medium with regular liquid fertilizer application. Propagated in late winter (January-February) and pruned to the second tier when 5 months old, plants were evaluated and measured at natural flowering time early the following winter (November-December). Measurements are taken from 20 specimens chosen at random.

Further trials in Australia are currently in progress.





Schlumbergera 'Bridgeport' flower, 9 month old plant and phylloclades with buds. (Photos supplied by applicant.)



Variety: 'Bridgeport' Application No: 89/94

Applicant: **B L Cobia Inc.** of Winter Garden, Florida, USA.

Diagnosis

This variety is distinct from any other known variety in having the following combination of characters: an erect growth habit; laterally curving phylloclades with medium-large, medium-thick outcurved denticles; a sterile, predominantly white flower with broad and obtusely rounded tepal blades, a medium length perianth tube and a short pistil.

Varieties used for comparison

'White Christmas' being a reference pale variety.

Origin

This variety arises from the self-pollination of a research variety of *S.truncatus* designated as 'ZH4333-T', carried out at Winter Garden, Florida in USA. A single seedling progeny of this cross was selected on the basis of its flowering and growth characteristics and subsequently propagated asexually to form the variety 'Bridgeport'. This variety is the subject of a Plant Patent application in USA.

Morphology

'Bridgeport' can be distinguished from 'White Christmas' by its broad ovate and apically rounded tepal blades compared to the narrow spathulate and apically acute tepal blades of 'White Christmas'. 'Bridgeport' also differs from 'White Christmas' in having a more upright growth habit and phylloclades with larger incurved denticles compared with the small outcurved denticles on 'White Christmas' phylloclades.

Variety: 'Cambridge' Application No: 89/95

Applicant: **B L Cobia Inc.** of Winter Garden, Florida, USA.

Diagnosis

This variety is distinct from any other known variety in having the following combination of characters: a predominantly pale yellow flower with narrow spathulate and apically rounded tepal blades; phylloclades with undulating margins and medium sized, medium-thick outcurved denticles.

Varieties used for comparison 'Gold Charm' being the parent.

Origin

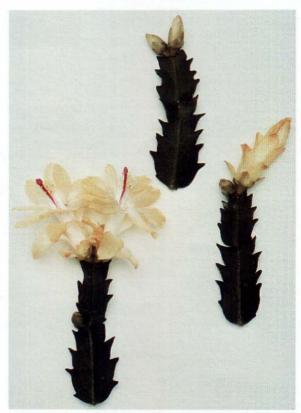
This variety arises from a chemically induced mutation of the variety 'Gold Charm', carried out at Winter Garden, Florida in USA. The mutated plant part was stabilised and subsequently propagated asexually and selected to form the variety 'Cambridge'. Selection was on the basis of its flowering and growth characteristics. This variety is the subject of a Plant Patent application in USA.

Morphology

'Cambridge' can be distinguished from 'Gold Charm' by its predominantly pale yellow tepal blades compared with the medially and marginally gold tepal blades of 'Gold Charm'. 'Cambridge' also differs from 'Gold Charm' in having a more erect growth habit and phylloclades with slightly larger, thicker and more frequent denticles than those of 'Gold Charm. 'The perianth tube of 'Cambridge' has a broader throat, there are a larger number of tube laminating (middle series) tepals and the pistil is proportionally shorter than the pistil of 'Gold Charm'.







Schlumbergera 'Cambridge' flower, 9 month old plant and phylloclades with buds. (Photos supplied by applicant.)

TABLES OF COMPARISON OF CHRISTMAS CACTUS

	'BRIDGEPORT'	'GOLD CHAR	M'*'WHITE * CHRISTMAS'	'CAMBRIDGE'	'CHRISTMAS FLAME'	
GROWTH HABIT ranking 1–9	upright 2	upright 3	upright 3	upright 2	upright	
PHYLLOCLADE				1791		
PREDOMINANCE	2	2-3	2-3	2	2-3	
PHYLLOCLADE						
LENGTH						
mean	45.2 mm	52.1 mm	49.2 mm	47.0 mm	53.5 mm	
range	32-62	35-70	20-60	33-57	38-66	
standard deviation	6.92	6.12	6.13	5.39	8.91	
WIDTH						
mean	17.6 mm	14.8 mm	14.2 mm	16.7 mm	20.0 mm	
range	12-24	5–16	7–16	10–22	15–28	
standard deviation	3.57	1.58	1.88	2.43	3.66	
COLOUR	dark green	med- green	med- green	dark green	med- green	
MARGIN UNDULATION	absent	present	absent	absent	present	
CURVATURE	mod strong	abaant	abaant	obsent	abaau.	
(in cross-section)	med-strong	absent	absent	absent	absent	
		15-74-151	7,5000	ye. 1	jas ars	
DENTICLES	med-large	med-large	med-large	small	med-large	
	med-thick	med-thick	med-thick	med-thick	med-thick	
	incurved	outcurved	outcurved	outcurved	outcurved	
FLOWER REFLEXURE	weak	med- weak	med- weak	med- weak	med- weak	
PERIANTH TUBE LENGTH						
mean	35.1 mm	36.8 mm	36.0 mm	34.6 mm	36.7 mm	
range	30-39	34-40	30-40	30-40	32-40	
standard deviation	2.90 mm	1.92	2.20	3.81 mm	2.73	
TEPAL BLADE (distal tube fo	orming series)					
mean	27.5 mm	29.5 mm	35.3 mm	31.8 mm	32.5 mm	
range	21-35	21-33	25–45	29–35	22-37	
standard deviation	4.67	2.45	4.45	2.36	3.34	
WIDTH						
mean	20.0 mm	13.7 mm	11.5	16.1 mm	13.3 mm	
range	15–22	11–16	5–15	13–18	10–16	
standard deviation	3.23	1.46	2.26	2.36	1.44	
CHARE	broad	narrow:	narrous	DOFFOIR	DOFFO	
SHAPE	broad ovate	narrow spathulate	narrow spathulate	narrow spathulate	narrow spathulate	
TIP	rounded	acute	acute	acute	acute	
MIDZONE COLOUR	white	white	white	pale yellow	yellow	
MUNSELL CHARTING				2.5 Y 9/4	2.5 Y 8/10	
RHS EQUIVALENT				19C	21B	
MARGIN COLOUR	white	gold	white	pale yellow	orange-yellov	
MUNSELL CHARTING	55.648.573			2.5 Y 9/4	7.5 YR 7/10	
RHS EQUIVALENT		26B		19C	_	
PISTIL LENGTH						
	55.6 mm	67.8 mm	66.3 mm	61.9 mm	53.5 mm	
mean						
range	50-62	60-75	61-72	57-65	40-62	

TABLES OF COMPARISON OF CHRISTMAS CACTUS

	'ORANGE FANTASY'	'KRIS * KRINGLE'	'RED * RADIANCE'	'SANTA CRUZ'	'TWILIGHT * TANGERINE'
GROWTH HABIT ranking 1–9	medium 4	med-prostrate 5	med-prostrate 5	upright 2	upright 3
PHYLLOCLADE PREDOMINANCE	2–3	3	2-3	1–2	3
PHYLLOCLADE			140-6		
LENGTH					45.0
mean	34.3 mm	41.1 mm	42.7 mm	43.5 mm	45.0 mm 35–55
range	25-41	25–50	36–55	27–63 8.68	6.4
standard deviation	4.42	6.16	4.14	0.00	0.4
WIDTH					
mean	16.5 mm	13.7 mm	13.8 mm	15.9 mm	14.9 mm
range	11-22	12–16	7–19.5	10–19	7–19
standard deviation	2.52	1.54	1.98	1.92	3.15
COLOUR	med- green	med- green	med- green	dark green	med- green
MARGIN UNDULATION	absent	absent	absent	absent	absent
CURVATURE (in cross-section)	absent	absent	absent	slight	absent
DENTICLES	medium	small	small	medium	med-small
22	thick	med-thick	medium	thick	medium
	outcurved	incurved	incurved	outcurved	incurved
FLOWER REFLEXURE	med-weak	med-strong	medium	med-weak	med-weak
PERIANTH TUBE LENGTH					
mean	27.8 mm	32.3 mm	34.2 mm	31.0 mm	27.0 mm
range	25-31	30-40	31–38	25–36	24-30
standard deviation	2.05 mm	2.49	1.72	3.46	1.62
TEPAL BLADE (distal tube f	orming series)				
mean	34.9 mm	28.4 mm	37.3 mm	30.7 mm	26.5 mm
range	30-39	25-35	23–37	29–36	22-36
standard deviation	2.59	3.35	2.34	6.09	2.39
WIDTH					
mean	17.2 mm	12.7 mm	13.9 mm	16.5 mm	12.8 mm
range	13-21	10–17	10–17	14–20	10–16
standard deviation	2.25	2.31	1.56	1.37	2.39
SHAPE	spathulate	narrow spathulate	narrow elliptic	narrow spathulate	lanceolate
TIP	rounded	acute	acute	rounded	acute
	12 0 12 0 12 0 12 0 12 0 12 0 12 0 12 0				Stor to
MIDZONE COLOUR	red	strong pink	purple-pink	red-orange	strong pink
MUNSELL CHARTING	5 R 5/12			7.5 R 6/10	
RHS EQUIVALENT	47B			42D	
MARGIN COLOUR	red	red	purple-red	red-orange	red-orange
MUNSELL CHARTING	5 R 4/14			7.5 R 5/12	
RHS EQUIVALENT	45A			41B	
PISTIL LENGTH				THEN	
mean	53.1 mm	56.4 mm	61.8 mm	56.0 mm	52.7 mm
range	48-57	54-63	57-65	52-60	51-55
Tallac			2.12	2.78	1.15

Variety: 'Christmas Flame' Application No:

Applicant: B L Cobia Inc. of Winter Garden, Florida,

Diagnosis

This variety is distinct from any other known variety in having the following combination of characters: an erect-medium growth habit; phylloclades with small, medium-thick and outcurved denticles; a sterile predominantly yellow flower with narrow spathulate and apically acute tepal blades; and red tinged ovary and petals on flower buds.

Varieties used for comparison 'Gold Charm' being the parent variety.

Origin

This variety arises from a naturally occuring mutation on a specimen of the variety 'Gold Charm' found in the applicant's production nursery at Winter Garden, Florida in USA. The mutated material was subsequently removed and propagated asexually to form the variety 'Christmas Flame'. This variety is the subject of a Plant Patent application in USA.

Morphology 'Christmas Flame' can be distinguished from 'Gold Charm' by its stronger and more orange-yellow colour on tepal blade margins than the medially and marginally gold tepal blades of 'Gold Charm'. 'Christmas Flame' also differs from 'Gold Charm' in having red tinged buds compared to the green buds of 'Gold Charm'.



Schlumbergera 'Christmas Flame' phylloclades with buds (below) showing red flower buds compared with those of 'Gold Charm' (above) with green buds. (Photos supplied by applicant.)





Schlumbergera 'Christmas Flame' flower, and 9 month old plant. (Photos supplied by applicant.)

Variety: 'Orange Fantasy' Application No: 89/97

Applicant: **B L Cobia Inc.** of Winter Garden, Florida, USA.

Diagnosis

This variety is distinct from any other known variety in having the following combination of characters: a sterile predominantly red flower with spathulate and apically pointed tepal blades, a medium length perianth and medium-short pistil; a medium growth habit; and phylloclades with large thick outcurved denticles;

Varieties used for comparison 'Kris Kringle' and 'Red Radiance'.

Origin

This variety arises from the controlled pollination of a research variety of *S.truncatus* designated as 'ZH3990-T' by another research variety designated as 'ZH6658', carried out at Winter Garden, Florida in USA. A single seedling progeny of this cross was selected on the basis of its flowering and growth characteristics and subsequently propagated asexually to form the variety 'Bridgeport'. This variety is also the subject of a Plant Patent application in USA since December 1988, under the name 'Kris Kringle II'.

Morphology

'Orange Fantasy' is distinct from 'Kris Kringle' in having shorter and broader tepal blades than 'Kris Kringle'. The mid and marginal tepal colour of 'Kris Kringle' is more pink-red than the red of 'Orange Fantasy.' The phylloclades of 'Orange Fantasy' have larger and thicker denticles than those of 'Kris Kringle'.

'Orange Fantasy' is distinct from 'Red Radiance' in having shorter perianth tube, shorter pistil, slightly broader spathulate tepal blades and a predominantly translucent white perianth tube compared to elliptic tepal blades and the pale pink tube of 'Red Radiance'. The mid and marginal tepal blade colour of 'Red Radiance' is more purple-red than the red of 'Orange Fantasy.' The phylloclades of 'Orange Fantasy' have larger and thicker denticles than those of 'Red Radiance'.







Schlumbergera 'Orange Fantasy' flower, 9 month old plant and phylloclades with buds. (Photos supplied by applicant.)

Variety: 'Santa Cruz' Application No: 89/98

Applicant: **B L Cobia Inc.** of Winter Garden, Florida, USA.

Diagnosis

This variety is distinct from any other known variety in having the following combination of characters: a sterile predominantly red flower with spathulate and apically rounded tepal blades, a medium-long perianth tube and medium-long pistil; an erect growth habit; and phylloclades with medium-large, thick outcurved denticles.

Varieties used for comparison

'Twilight Tangerine' and 'Kris Kringle'

Origin

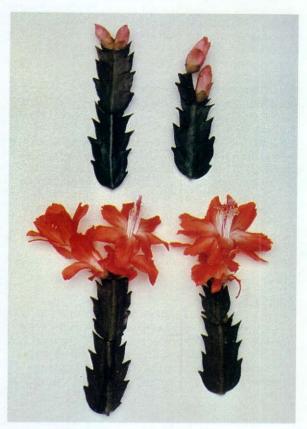
This variety arises from a chemically induced mutation of the proprietary research variety 'ZH18227', carried out at Winter Garden, Florida in USA. The mutated plant part was stabilised and subsequently propagated asexually and selected to form the variety 'Santa Cruz'. Selection was on the basis of its flowering and growth characteristics. This variety is also the subject of a Plant Patent application in USA.

Morphology

'Santa Cruz' is distinct from 'Kris Kringle' in 'Santa Cruz' having broader and more apically rounded tepal blades than 'Kris Kringle'. The perianth tube and pistil of 'Santa Cruz' are shorter than those of 'Kris Kringle' and phylloclades of 'Santa Cruz' have larger and thicker denticles than those of 'Kris Kringle'.



'Santa Cruz' is distinct from 'Twilight Tangerine' in 'Santa Cruz' having a longer perianth tube, a longer pistil, slightly broader spathulate tepal blades and a predominantly translucent white perianth tube compared to lanceolate tepal blades and the pale pink tube of 'Twilight Tangerine'. The mid and marginal tepal colour of 'Twilight Tangerine' is more purple-red and less intense than the red of 'Santa Cruz.' The phylloclades of 'Santa Cruz' have larger and thicker denticles than those of 'Twilight Tangerine'.





Schlumbergera 'Santa Cruz' flower, 9 month old plant and phylloclades with buds. (Photos supplied by applicant.)

OBJECTIONS

Formal objections (S20 of the PVR Act) against any of the above applications can be lodged by a person who:

- a) considers their commercial interests would be affected by a grant of PVR to the applicant; AND
- b) considers that the provisions of S26 (Appendix 3 of this Journal) cannot be met.

A fee of \$180 is payable at the time of lodging a formal objection.

Comment: Any person not falling into the above category may make comment on the eligibility of any of the above applications for PVR. There is no charge for this.

A person submitting a formal objection or a comment must provide supporting evidence to substantiate the claim. A copy of the submission will also be sent to the applicant and the latter will be asked to show why the objection should not be upheld.

All formal objections and comments relating to the above applications must be lodged with the Registrar by close of business on 30/06/90.

b) Descriptions to be Finalised

Descriptions for the Journal are being finalised for the following applications. The six month period for comment or formal objection will not begin until the full descriptions are finalised and published in the Journal.

STRAWBERRY

(Fragraria sp.)

 Applicant: The Regents of the University of California, of Oakland, California USA.

'Chandler' Application No. 89/066

 Applicant: The Regents of the University of California, of Oakland, California USA.

'Fern' Application No. 89/067

 Applicant: The Regents of the University of California, of Oakland, California USA.

'Irvine' Application No. 89/068

 Applicant: The Regents of the University of California, of Oakland, California USA.

'Mrak' Application No. 89/069

 Applicant: The Regents of the University of California, of Oakland, California USA.

'Muir' Application No. 89/070

 Applicant: The Regents of the University of California, of Oakland, California USA.

'Oso Grande' Application No. 89/071

 Applicant: The Regents of the University of California, of Oakland, California USA.

'Parker' Application No. 89/072

 Applicant: The Regents of the University of California, of Oakland, California USA.

'Santana' Application No. 89/073

 Applicant: The Regents of the University of California, of Oakland, California USA.

'Selva' Application No. 89/074

 Applicant: The Regents of the University of California, of Oakland, California USA.

'Soquel' Application No. 89/075

 Applicant: The Regents of the University of California, of Oakland, California USA.

'Yolo' Application No. 89/076

 Applicant: The Regents of the University of California, of Oakland, California USA.

'Tustin' Application No. 89/077

PEACH

(Prunus persica)

 Applicant: S. C. E. A. Domaine de Castang, of Bergerac, France.

Agent in Australia: Flemings Nurseries & Associates, of Monbulk, Victoria.

'Symphonie' Application No. 89/078

 Applicant: S. C. E. A. Domaine de Castang, of Bergerac, France.

Agent in Australia: Flemings Nurseries & Associates, of Monbulk, Victoria.

'Melodie' Application No. 89/080

NECTARINE

(Prunus persica var nectarina)

 Applicant: S. C. E. A. Domaine de Castang, of Bergerac, France.

Agent in Australia: Flemings Nurseries & Associates Pty Ltd, of Monbulk, Victoria.

'Harmonie' Application No. 89/079

AVOCADO (Persea americana)

 Applicant: The Regents of the University of California, of Oakland, California, USA

'Esther' Application No. 89/083

 Applicant: The Regents of the University of California, of Oakland, California, USA

'Gwen' Application No. 89/084

 Applicant: The Regents of the University of California, of Oakland, California, USA

'Whitsell' Application No. 89/085

ASIATIC PEAR (Pyrus hybrid)

 Applicant: The Regents of the University of California, of Oakland, California, USA.

'Daisui Li' Application No. 89/087

 Applicant: The Regents of the University of California, of Oakland, California, USA.

'Shin Li' Application No. 89/088

ALSTROEMERIA (Alstroemeria hybrid)

 Applicant: Konst Alstroemeria BV, of Nieuwveen, Holland

Agent in Australia: Maxiflora Pty Ltd. of Monbulk, Victoria

'La Paz' Application No. 89/089

 Applicant: Konst Alstroemeria BV, of Nieuwveen, Holland

Agent in Australia: Maxiflora Pty Ltd. of Monbulk, Victoria

'Sangria' Application No. 89/090

 Applicant: Konst Alstroemeria BV, of Nieuwveen, Holland

Agent in Australia: Maxiflora Pty Ltd. of Monbulk, Victoria

'Paloma' Application No. 89/091

 Applicant: Konst Alstroemeria BV, of Nieuwveen, Holland

Agent in Australia: Maxiflora Pty Ltd. of Monbulk, Victoria

'Wilhelmina' Application No. 89/092

 Applicant: Konst Alstroemeria BV, of Nieuwveen, Holland

Agent in Australia: Maxiflora Pty Ltd. of Monbulk, Victoria

'Serena' Application No. 89/093

APPLICATIONS WITHDRAWN

The following applications have been withdrawn at the request of the applicant.

'Sesia' Application No. 89/045

PROVISIONAL PROTECTION

a) Granted

The following varieties have provisional protection under S22 of the Plant Variety Rights Act 1987 since the last issue of the Journal:

'Chandler'	Application No. 89/066
'Fern'	Application No. 89/067
'Irvine'	Application No. 89/068
'Mrak'	Application No. 89/069
'Muir'	Application No. 89/070
'Oso Grande'	Application No. 89/071
'Parker'	Application No. 89/072
'Santana'	Application No. 89/073
'Selva'	Application No. 89/074
'Soguel'	Application No. 89/075
'Yolo'	Application No. 89/076
'Tustin'	Application No. 89/077
'Symphonie'	Application No. 89/078
'Harmonie'	Application No. 89/079
'Melodie'	Application No. 89/080
'Pink Candles'	Application No. 89/081
	Application No. 89/082
'Narayen' 'Esther'	Application No. 89/083
'Estner 'Gwen'	Application No. 89/084
'Whitsell'	Application No. 89/085
	Application No. 89/086
'Amarillo'	Application No. 89/087
'Daisui Li'	Application No. 89/088
'Shin Li'	Application No. 89/089
'La Paz'	Application No. 89/090
'Sangria'	Application No. 89/091
'Paloma'	Application No. 89/092
'Wilhelmina'	Application No. 89/093
'Serena'	Application No 89/094
'Bridgeport'	Application No 89/095
'Cambridge'	Application No 89/096
'Christmas Flame'	Application No 89/097
'Orange Fantasy'	Application No 89/098
'Santa Cruz'	Application No 89/099
'Phoebis'	Application No 89/100
'Sylvine'	Application No 89/100

b) Withdrawn

Provisional protection has been withdrawn under S22(b) of the *Plant Variety Rights Act 1987* for the following variety(ies) which have been sold other than for the purposes of S22(b) after the application for PVR was accepted:

'Kyambro' (Application No 89/014) *Trifolium resupinatum var resupinatum*Applicant: Minister of Agriculture, South Australia, with effect from 30/09/89 until examination of the application is completed and PVR is granted or rejected.

'Rosedale' (Application No 89/015)
Trifolium subterraneum ssp brachycalycinum
Applicant: Minister of Agriculture, South Australia,
with effect from 30/09/89 until examination of the
application is completed and PVR is granted or
rejected.

CORRIGENDA

1. In Vol 2 No. 3 issue September, 1989 on page 22 in b) Descriptions to be finalised the variety name is incorrectly recorded. The correct information is

IMPATIENS

'Arctia' commercial synonym 'Aglia' Application No 89/048

Applicant: **Keintzler KG**, of Gensingen, West Germany Agent in Australia: **R Rother** of Emerald, Victoria

PROPOSED SCHEDULE FOR INCLUDING GENERA/SPECIES IN THE PLANT VARIETY RIGHTS REGULATIONS

CTONE ED:	APRIL 88	JULY 88	JAN 89	JULY 89	MARCH 90
STONE FRUIT		Prunus	All Stone Fruit		
OTHER FRUIT	Malua (at.)	All Citrus			
	Malus (apple)	Fragaria	Pyrus (pear)		
		(strawberry) Vitis (grape)	Actinidia (kiwifruit)	A11.6 *:	
		Carica (paw paw)	(KIWIITUIL)	All fruit	
		Rubus (raspberry)			
		Persea americana (avocado)			
VEGETABLES	Phaseolus vulgaris	Solanum tuberosum	. Au-		
	(bean)	(potato)	Allium cepa (onion)	All vegetables	
		Lycopersicon	Daucus carota		
		(tomato) Lactuca sativa	(carrot)		
		(lettuce)	Brassica oleracea		
		Pisum (pea)	(cabbage,		
NUTS	Macadamia	D	cauliflower etc)		
	Macadanna	Prunus amygdalus (almond)	Juglans (walnut)	All nuts	
HERBAGE AND	Phalaris	Lolium (ryegrass)	Dactylus	A.II.	
TURF GRASS		Agrostis (bent)	(cocksfoot)	All herbage and turf grasses	
		Festuca (tall fescue)	Bromus	and tan grasses	
		Cynodon (bermuda	Lotus Paspalum		
		grass)	Arachis		
		Zoysia Stenotaphrum	Bothriochloa		
OILSEEDS	Brassica sp	Glycine max	Sesamum indicum	A11 - 11	
	(oilseeds)	(soybean)	(sesame)	All oilseeds	
	(rape, mustard etc)	Helianthus annuus	Carthamus		
		(sunflower)	tinctorius (safflower)		
			Linum		
			usitatissimum		
PASTURE AND		Trifations (-1)	(linseed)		
GRAIN LEGUMES		Trifolium (clover)	Lupinus Desmanthus	All pasture	
		Medicago	Vigna (mungbean)	and grain legumes	
		Ornithopus	Cicer arietinum	regumes	
		(serradella) Stylosanthes	(chickpea) Indigofera		
GRAINS		Setaria	Hordeum (barley)		
		Avena (oats)	Pennisetum		All grains
		Panicum Pisum (pea)	(pearl millet)		
		Zea mays (corn)	Sorghum		
UST. NATIVE RNAMENTALS	Anigozanthos	Grevillea	Macropidia	Dana -: -	
MINAMIEN I ALS	(Kangaroo paw)	Chamelaucium	(Black Kangaroo	Boronia Banksia	All native ornamentals
		(Geraldton wax) Lechenaultia	Paw)	Verticordia	ornamentals
		Melaleuca	Piper Callistemon	Darwinia Pimelea	
		Decaspermum Artanema	Thryptomene	· inteled	
		o tanema	Telopea Dryandra		
THER DRNAMENTALS	Rosa (Rose)	Orchids	Rhipsalis	Homoros-III-	•
POMANIEN I ALS		(all genera)	Kalanchoe	Hemerocallis Bougainvillea	All ornamentals
		Dianthus (carnation)	Euphorbia (Poinsettia)	llex	
		Alstroemeria	Chrysanthemum		
		Schlumbergera (Zygocactus)	Zantedeschia		
		Lilium (Lily)	Cuphea Limonium		
		Metrosideros	Cyphomandra		
		Carminea	Streptocarpus		
		Rhododendron	Impatiens Cyclamen		
		Gerbera	Begonia		
			Achimenes Choysia		
DECTRY.			Agapanthus		All former
RESTRY		Format 4	Pinus		All forestry
			Acacia		
HER	Gossypium		Casuarina		
	(cotton)	1	Duboisia	Humulus	All species
				iupulus	
OPOSED DITIONS				•	

SECTIONS 16 AND 17 OF THE PVR ACT

Form of application

- 16. An application for plant variety rights in respect of a plant variety shall be in writing in a form approved by the Secretary, shall be lodged with the Secretary in the prescribed manner and shall contain
 - (a) the name of the person making the application;
 - (b) where the applicant is the breeder of the variety, a statement that the applicant is the breeder of the variety;
 - (c) where the applicant is not the breeder of the variety, the name and address of the breeder from whom the applicant derived the right to make an application and particulars of all relevant assignments and transmissions of the right to make the relevant applications;
 - (d) a description, or a description and photograph, of a plant of the variety sufficient to identify plants of that variety;
 - (e) particulars of the characteristics that distinguish the variety from other varieties;
 - (f) particulars of the manner in which the variety was originated;
 - (g) the name of the variety;
 - (h) particulars of any application for, or approval of a grant of, rights of any kind in respect of the variety in any other country;
 - (j) particulars of any tests carried out to establish that the variety is homogeneous and stable (including particulars of any cycle of reproduction or multiplication for the purposes of paragraph 3(2)(b));
 - (k) in the case of a plant variety originated outside Australia, particulars of any test growing of that variety carried out for the purpose of determining whether the variety will, if grown in Australia, have a particular characteristic;
 - (m) an address in Australia for the service of documents on the applicant for the purposes of this Act; and
 - (n) such other particulars (if any) as are prescribed.

Names of new plant varieties

- 17.(1) The name of a new plant variety shall consist of a word or words (which may be an invented word or words) with or without the addition of
 - (a) a letter or letters not constituting a word;
 - (b) a figure or figures; or
 - (c) both a letter or letters not constituting a word and a figure or figures.
- 2. A new plant variety shall not have --
 - (a) a name the use of which would be likely to deceive or cause confusion, including a name that is the same as, or is likely to be mistaken for, the name of another plant variety;

- (b) a name the use of which would be contrary to law:
- (c) a name that comprises or contains scandalous or offensive matter; or
- (d) a name, or name of a kind, that is, at the time when the application is made, prohibited by the regulations.
- (3) The name of a new plant variety in respect of which an application is made shall comply with any recommendations of the International Code of Nomenclature for Cultivated Plants, as in force when the application is made, formulated and adopted by the International Commission for Nomenclature of Cultivated Plants of the International Union of Biological Sciences that are accepted by Australia.
- (4) The name of a new plant variety in respect of which an application is made shall not consist of, or include
 - (a) the name of a natural person living at the time of the application, other than a person who has given written consent to the name of the plant variety;
 - (b) the name of a natural person who died within the period of 10 years immediately preceding the application, other than a person who has given, or whose legal personal representative has given, written consent to the name of the plant variety; or
 - (c) the name of a corporation, organisation or institution, other than a corporation, organisation or institution that has given its written consent to the name of the plant variety.

SECTION 26 OF THE PVR ACT

Grant of plant variety rights

26.(1) Subject to this section, where an application for plant variety rights in respect of a plant variety is accepted —

- (a) if the Secretary is satisfied that
 - (i) there is such a plant variety;
 - (ii) the plant variety is a new plant variety;
 - (iii) the applicant is entitled to make the application;
 - (iv) the grant of those rights to the applicant is not prohibited by this Act;
 - (v) those rights have not been granted to another person;
 - (vi) there has been no earlier application for those rights that has not been withdrawn or otherwise disposed of;
 - (vii) the name of the variety would comply with section 17; and
 - (viii) all fees payable under this Act in relation to the application and the grant have been paid,

the Secretary shall grant those rights to the applicant; or

- (b) if the Secretary is not so satisfied the Secretary shall refuse to grant those rights to the applicant.
- (2) The Secretary shall not grant, or refuse to grant, plant variety rights in respect of a plant variety unless a period of at least 6 months has elapsed since the giving of public notice of the application, or, if the application has been varied in pursuance of a request under sub-section 19(1) in a manner that the Secretary considers to be significant, a period of 6 months has elapsed since the giving of public notice of particulars of the variation, or of the last such variation, as the case requires.
- (3) The Secretary shall not refuse to grant plant variety rights unless the Secretary has given the applicant for the rights a reasonable opportunity to make a written submission to the Secretary in relation to the application.
- (4) Where an objection to the grant of plant variety rights has been lodged under section 20, the Secretary shall not grant the rights unless the Secretary has given the person who lodged the objection a reasonable opportunity to make a written submission to the Secretary in relation to the objection.
- (5) Plant variety rights shall be granted to a person by the issue to that person by the Secretary of a certificate, signed by the Secretary or by the Registrar, in a form approved by the Secretary and containing such particulars of the plant variety to which the rights relate as the Secretary considers appropriate.

- (6) Where plant variety rights are granted to persons who made a joint application for those rights, those rights shall be granted to those persons jointly.
- (7) Where the Secretary refuses to grant plant variety rights in respect of a plant variety, the Secretary shall, within 30 days after refusing, give written notice of the refusal to the applicant for the rights setting out the grounds for the refusal.

FEES

As from 1 July 1989 the following fee schedule will apply.

FUNCTION

FUNCTION	\$
APPLICATION	350
EXAMINATION OF APPLICATION	1200
COPY OF APPLICATION	60
VARIATION TO APPLICATION	65
LODGING AN OBJECTION	180
COPY OF OBJECTION	60
CERTIFICATE OF PVR	235
ANNUAL RENEWAL FEE	235
REQUEST FOR RE-EXAMINATION	700
(if required)	
COMPULSORY LICENCE	120
TRANSFER OF RIGHTS	120
ISSUE OF PUBLICATIONS	7
1330E OF FOREIGN THE TO	(first 10 page,
	then 50c/page)
(other than the PV Journal)	, ,
OTHER WORK RELEVANT TO PVR	\$60 (per hour)

APPENDIX 5

PLANT VARIETY RIGHTS ADVISORY COMMITTEE (PVRAC)

(Members of the PVRAC were appointed in accordance with S45 of the *Plant Variety Rights Act 1987*).

Mrs Kathryn Adams (Chair) Registrar Plant Variety Rights Bureau of Rural Resources GPO Box 858 CANBERRA ACT 2601

Professor Donald Marshall Professor of Agronomy Waite Agricultural Research Institute University of Adelaide GLEN OSMOND SA 5064. Representative of breeders.

Mr Peter Wilson Manager of Wheat Research Cargill Seeds PO Box W252 WEST TAMWORTH NSW 2340 Representative of breeders. Mr Rodney Field WMR Box 758 ESPERANCE WA 6450 Representative of producers.

Mr Richard Arthur GPO Box 388 CANBERRA ACT 2601 Representative of consumers.

Mr Edgar (Ben) Swane Director Swane Bros P/L Galston Road DURAL NSW 2158 Representative with appropriate qualifications and experience.

Dr John Leslie Director Division of Plant Industry Queensland Dept Primary Industries GPO Box 46 BRISBANE QLD 4001 Representative with appropriate qualifications and experience.

ORGANISATIONS OFFERING TO UNDERTAKE PVR TRIALS

The following organisations are interested in carrying out PVR trials on behalf of applicants — the PVR Office does not accept any responsibility and is publishing the list for the convenience of applicants.

AGRITECH, PO BOX 549 TOOWOOMBA QLD, 4350; 076 384322; MARY ANN LAW

AGRISEARCH, PO BOX 972 ORANGE NSW, 2800; 063 624539; M J HOOD (also at Shepparton, Moree, Ridgehaven, Mackay, Armidale and Innisfail).

MURDOCH UNIVERSITY, SCHOOL OF HORTICULTURE MURDOCH WA 6150; 09 3322810 PROF. JOHN CONSIDINE

CHIVERS COMPUTING & AGRICULTURE, 3/258 KOORANG RD CARNEGIE VIC 3163; 03 5697538; IAN CHIVERS

RADCLIFFE AND TILL; 42 MOSS ST WEST RYDE 2114; 02 8046973; SHARON TILL

TURF RESEARCH AND ADVISORY INSTITUTE, PO BOX 381 FRANKSTON VIC 3199; 03 7863311; TERRY WOODCOCK

STATE DEPARTMENTS OF AGRICULTURE AND CSIRO MAY DO TRIALS ON A FEE FOR SERVICE BASIS FOR SOME SPECIES.

OVERSEAS

M. RENE ROYON, CONSEIL EN LICENCES, 128, Les Bois De Font Merle 06250 Mougins, FRANCE

SUMMARY OF PVR APPLICATIONS RECEIVED TO 9/11/89

VARIETY	APPLICANT	DESCRIPTION PUBLISHED (Future dates are estimates)	DATE PVR GRANTED
KURANGA GOLD LACE	KURANGA NATIVE NURSERY	30/06/89	
PINK CANDLES	JOHN CHURCHUS	31/12/89	
SNOW STORM	STEVE WILKEN	30/03/90	
LA PAZ SANGRIA PALOMA WILHELMINA SERENA	KONST ALSTROEMERIA BV KONST ALSTROEMERIA BV KONST ALSTROEMERIA BV KONST ALSTROEMERIA BV KONST ALSTROEMERIA BV	31/03/90 31/03/90 31/03/90 31/03/90 31/03/90	
FIREFLY	ONAP RESEARCH PTY LTD	20/12/88	18/09/89
AMARILLO	QLD DPI CSIRO & NSW AG DT	31/12/89	
HOBSON	VALLEY SEEDS PTY LTD	30/06/89	
LICH SYN SUNDANCE	P CATT, LISS FOREST NSERY	31/03/90	
NARAYEN	CSIRO	31/12/89	
EDWARDS SUMMER NAVE AUTUMN GOLD LATE NAVE ROHDE SUMMER NAVEL POWELL LATE NAVEL SUMMER GOLD LATE NAVE	ELYANDILLA PARK LIMITED L JOHN R POLLOCK PW MCLAREN MANAGEMENT CON CN & J POWELL EL DUDLEY MARROWS	31/03/93 31/03/93 31/03/93 31/03/93 31/03/93 31/03/93 31/03/93	
RAINBOW	ARTHUR YATES & CO.PTY.LTD	31/03/90	
GRASSLANDS KARA	GRASSLANDS DIV. DSIR	09/10/89	
ZORNITZA GROZDANA ODILE FANTASTIC VALYA CHARODEYKA MESHKA MECHTA ZLATKA RUBINEN PIRIN ZORA CHANDENN PROLET CHANDLER FERN IRVINE MRAK MUIR OSO GRANDE PARKER SANTANA SELVA SOQUEL	ROYENA NURSERIES AUST P/L	31/03/89 31/03/89 31/03/89 31/03/89 31/03/89 31/03/89 31/03/89 31/03/89 31/03/89 31/03/89 31/03/89 31/03/89	
	KURANGA GOLD LACE PINK CANDLES SNOW STORM LA PAZ SANGRIA PALOMA WILHELMINA SERENA FIREFLY AMARILLO HOBSON LICH SYN SUNDANCE NARAYEN BARNFIELD LATE NAVEL TOOMEY SUMMER NAVEL EDWARDS SUMMER NAVEL AUTUMN GOLD LATE NAVEL POWELL LATE NAVEL SUMMER GOLD LATE NAVE CHISLETT SUMMER NAVE RAINBOW GRASSLANDS KARA ZORNITZA GROZDANA ODILE FANTASTIC VALYA CHARODEYKA NESHKA MECHTA ZLATKA RUBINEN PIRIN ZORA CHANDLER FERN IRVINE MRAK MUIR OSO GRANDE PARKER SANTANA SELVA	KURANGA GOLD LACE PINK CANDLES JOHN CHURCHUS SNOW STORM STEVE WILKEN LA PAZ KONST ALSTROEMERIA BV KONSTALST	KURANGA GOLD LACE

GENUS	VARIETY	APPLICANT	DESCRIPTION PUBLISHED (Future dates are estimates)	DATE PVR GRANTED
GLYCINE	A5939	ANNAND ROBINSON CO.	30/06/89	
GLYCINE GLYCINE	A5474	ANNAND ROBINSON CO.	30/06/89	
GLYCINE	MANARK A6520	PRIMARY INDUSTRIES DEPT. ASGROW SEED CO	30/06/89 30/06/89	
HORDEUM	FRANKLIN	TAS DEPT OF AGRICULTURE	30/06/89	
IMPATIENS	ARCTIA SYN AGLIA	KIENTZLER KG WEST GERMAN	NY 31/12/89	
IMPATIENS	APPOLLON	KIENTZLER KG WEST GERMAN	NY 31/12/89	
IMPATIENS IMPATIENS	ARGUS	KIENTZLER KG WEST GERMAN	NY 31/12/89	
IMPATIENS	AURORE CELERIO	KIENTZLER KG WEST GERMAN	NY 31/12/89	
IMPATIENS	DELIAS	KIENTZLER KG WEST GERMAN KIENTZLER KG WEST GERMAN	NY 31/12/89	
IMPATIENS	EPIA	KIENTZLER KG WEST GERMAN	NY 31/12/89 NY 31/12/89	
IMPATIENS	EUREMA	KIENTZLER KG WEST GERMAN	IY 31/12/89	
IMPATIENS	FLAMBEE	KIENTZLER KG WEST GERMAN	IY 31/12/89	
IMPATIENS IMPATIENS	JASIUS	KIENTZLER KG WEST GERMAN	IY 31/12/89	
IMPATIENS	MARUMBA MIMAS	KIENTZLER KG WEST GERMAN	IY 31/12/89	
IMPATIENS	PHOEBIS	KIENTZLER KG WEST GERMAN	IY 31/12/89	
IMPATIENS	SATURNIA	KIENTZLER KG WEST GERMAN KIENTZLER KG WEST GERMAN	IY 31/12/89	
IMPATIENS	SELENIA	KIENTZLER KG WEST GERMAN	1 3	
IMPATIENS	SESIA	KIENTZLER KG WEST GERMAN	Y WITHDRAWN	
IMPATIENS	SYLVINE	KIENTZLET KG WEST GERMAN	Y 31/12/89	
IMPATIENS IMPATIENS	THECLA VULCAIN	KIENTZLER KG WEST GERMAN	Y 31/12/89	
		KIENTZLER KG WEST GERMAN	Y 31/12/89	
LACTUCA LACTUCA	BULLS EYE TARGET	ARTHUR YATES & CO PTY LTD ARTHUR YATES & CO PTY LTD	20/12/88 20/12/88	24/07/89 24/07/89
LECHENAULTIA LECHENAULTIA	STARBURST	ONAP RESEARCH PTY LTD	20/12/88	24/07/89
LECHENAULTIA	ULTRAVIOLET FLAMINGO	ONAP RESEARCH PTY LTD	20/12/88	24/07/89
LECHENAULTIA	AUTUMN BLUE	ONAP RESEARCH PTY LTD GEORGE LULLFITZ	20/12/88 31/12/89	24/07/89
LILIUM	GENEVE	GEBR. VLETTER EN DEN HAAN	30/06/90	
LILIUM	GRAND CRU	GEBR. VLETTER EN DEN HAAN	30/06/90	
LILIUM LILIUM	LUCCA MENTON	GEBR. VLETTER EN DEN HAAN	30/06/90	
LILIUM	MONA LISA	GEBR. VLETTER EN DEN HAAN GEBR. VLETTER EN DEN HAAN	30/06/90	
LILIUM	MONTE ROSA	GEBR. VLETTER EN DEN HAAN	30/06/90 30/06/90	
LILIUM	SANCERRE	GEBR. VLETTER EN DEN HAAN	30/06/90	
LILIUM	TOSCANE	GEBR. VLETTER EN DEN HAAN	30/06/90	
LILIUM	VENEZIA	GEBR. VLETTER EN DEN HAAN	30/06/90	
LOLIUM LOLIUM	YATSYN 1 PROGROW	NZ AGRISEEDS LTD VALLEY SEEDS PTY LTD	20/09/88 20/12/88	07/04/89 21/08/89
MACADAMIA	HIDDEN VALLEY A4	HFD, MA & DJD BELL		
MACADAMIA	HIDDEN VALLEY A16	HFD, MA & DJD BELL	20/06/88 20/06/88	24/02/89 24/02/89
MALUS	RAFZUBIN	HAUENSTEIN LTD	31/12/90	
MALUS	RED ELSTAR	INST. VOOR DE VEREDELING		
MALUS MALUS	JONAGORED	N.V.JOMOBEL	30/09/92	
MALUS	LANCEP CEPILAND	CENTRE D'EXPERIMENTATION CENTRE D'EXPERIMENTATION	18/06/92 18/06/92	
ORNITHOPUS	GRASSLANDS KOHA	GRASSLANDS DIV. DSIR NZ	20/12/88	14/11/89
PANICUM	NATSUKAZE	KYUSHU NATIONAL AGRICULT.	30/06/89	
PERSEA	ESTHER	REGENTS OF UNI OF CALIFORNIA	29/09/90	
PERSEA	GWEN	REGENTS OF UNI OF CALIFORNIA	29/09/90	
PERSEA	WHITSELL	REGENTS OF UNI OF CALIFORNIA	29/09/90	
PHASEOLUS PHASEOLUS	BRONCO GRESHAM	NEW WORLD SEEDS PTY LTD BOOKER SEEDS LTD	30/06/89 30/06/89	

APPENDIX 7 continued

GENUS	VARIETY	APPLICANT	DESCRIPTION PUBLISHED (Future dates are estimates)	DATE PVR GRANTED
PISUM PISUM PISUM	DINKUM SOLARA FROLIC	DARATECH PTY LTD CEBECO-HANDELSRAAD ROGERS BROTHERS SEED COMP	20/12/88 30/03/90 19/06/90	24/07/89
PRUNUS PRUNUS PRUNUS PRUNUS PRUNUS PRUNUS PRUNUS PRUNUS	TASTY ZEE JUNE CREST ZEE LADY GAUDION SYMPHONIE HARMONIE MELODIE	FLEMINGS NURSERIES & ASSO FLEMINGS NURSERIES & ASSO FLEMINGS NURSERIES & ASSO KEN GAUDION SCEA DOMAINE DE CASTANG SCEA DOMAINE DE CASTANG SCEA DOMAINE DE CASTANG	31/03/90	
PYRUS PYRUS	DAISUI LI SHIN LI	REGENTS UNI OF CALIFORNIA REGENTS UNI OF CALIFORNIA	30/06/90 30/06/90	
ROSA ROSA ROSA ROSA ROSA ROSA ROSA	YOUNG AT HEART MEIZAIPUR KEIJOURNA MEIPINJID MEIKRUSA MEIROLOUR MEIVOUPLIX MEIVROFIX	SWANE BROS PTY LTD SNC MEILLAND & CIE UNIVERSAL PLANTS S A R L S.N.C. MEILLAND ET CIE SNC MEILLAND ET CIE	20/06/88 09/10/89 09/10/89 30/06/89 09/10/89 09/10/89 09/10/89 09/10/89	19/05/89
SCHLUMBERGERA SCHLUMBERGERA SCHLUMBERGERA SCHLUMBERGERA SCHLUMBERGERA SCHLUMBERGERA	MADAME BUTTERFLY BRIDGEPORT CAMBRIDGE CHRISTMAS FLAME ORANGE FANTASY SANTA CRUZ	MR ANDREW SAVIO BL COBIA INC, BL COBIA INC, BL COBIA INC, BL COBIA INC, BL COBIA INC,	20/09/88 31/12/89 31/12/89 31/12/89 31/12/89 31/12/89	06/04/89
SETARIA	SPLENDA	CSIRO DIV TROPICAL CROPS AND PASTURES	20/09/88	06/04/89
SOLANUM	MORENE	EUROGROW POTATOES LTD	18/12/90	
TRIFOLIUM TRIFOLIUM TRIFOLIUM TRIFOLIUM	KYAMBRO ROSEDALE GRASSLANDS TAHORA GRASSLANDS KOPU	DEPT AGRICULTURE, S.A. DEPT AGRICULTURE, S.A. GRASSLANDS DIVISION, DSIR GRASSLANDS DIVISION, DSIR	30/06/89 30/06/89 30/06/89 30/06/89	
VITIS	MOSS EARLY	DARATECH PTY LTD	18/12/90	





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