



US00PP09531P

# United States Patent [19]

[11] Patent Number: Plant 9,531

Angus et al.

[45] Date of Patent: Apr. 30, 1996

- [54] CHAMELAUCIUM UNCINATUM—'CASCADE JEWEL'
- [75] Inventors: Timothy P. Angus, Faulconbridge; Nicholas F. Derera, Winston Hills, both of Australia
- [73] Assignee: Newport Nurseries, Australia
- [21] Appl. No.: 405,212
- [22] Filed: Mar. 16, 1995
- [51] Int. Cl.<sup>6</sup> ..... A01H 5/00
- [52] U.S. Cl. .... Plt./54.1
- [58] Field of Search ..... Plt./54.1

Attorney, Agent, or Firm—Christie, Parker & Hale

## [57] ABSTRACT

A new and distinct variety of *Chamelaucium uncinatum* plant, named 'Cascade Jewel', particularly characterized by having an erect plant of higher than normal branching density with numerous secondary stems of gracefully weeping poise. The heavily blooming plant flowers in winter, with presentations of unusually large flowers having a wide range of nectary color from yellow-green when immature to greyed-purple when mature. The widely ranging petal colors fall within a range between near white to red-purple and purple complimenting the nectary coloration.

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2 Drawing Sheets

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### BACKGROUND INFORMATION

This invention related to a new and distinct variety of *Chamelaucium uncinatum* which is referred to herein as the new variety 'Cascade Jewel'. 'Cascade Jewel' resulted from a controlled pollination breeding programme carried out by breeders T. P. Angus and N. F. Derera, both of 244 Singles Ridge Road, Winmalee, New South Wales, 2777, Australia.

'Cascade Jewel' resulted from the controlled pollination of *Chamelaucium uncinatum* variety GW15 (seed parent) by *Chamelaucium uncinatum* variety GW9 (pollen parent). 'Cascade Jewel' was selected in July 1991 on the basis of flower colour, flower size and plant habit. 'Cascade Jewel' was shown to be stable through two vegetatively propagated generations. The breeding and subsequent characterization of 'Cascade Jewel' were carried out at Winmalee, New South Wales, Australia.

'Cascade Jewel' is most notable for its predominance of immature nectary colour R.H.S. No 144C, mature petal colour R.H.S. No 77B, its large flower diameter (mean 17.6 millimeters) with intermediate floral tube outline, and its erect plant habit with cascading or weeping new growth, when grown under conditions such as 25° C. to 30° day temperature/15° to 18° night temperature with high nutrition.

'Cascade Jewel' has been vegetively propagated by means of striking plant cuttings at the above-noted location, at Winmalee, New South Wales, Australia. Examination of various 'Cascade Jewel' plants has confirmed that the combination of characteristics described herein are firmly fixed throughout successive generations.

### DESCRIPTION OF THE DRAWINGS

'Cascade Jewel' is illustrated by the accompanying photographic drawings:

FIG. 1: Is a photographic print in full color showing a single potted specimen of 'Cascade Jewel' which was planted in approximately January 1994. The photograph was taken in June 1994 and the plant is approximately 30 centimeters high x 2.5 centimeters wide.

FIG. 2: Is a photographic print in full color which compares bud and flower formations of 'Cascade Jewel', and comparative *Chamelaucium uncinatum* varieties 'Purple Pride' and 'Burgundy Blush'. The figure shows the various

stages from immature bud through to mature flower and floral tube outline.

### DESCRIPTION OF THE NEW VARIETY

The following is a detailed description of the 'Cascade Jewel' with color designations according to the *Horticultural Colour Chart* issued by the British Colour Council in collaboration with The Royal Horticultural Society Copyright 1938. The observed traits have been repeatedly observed and are believed to be characteristic of 'Cascade Jewel' which, in combination, distinguish 'Cascade Jewel' as a new and distinct cultivar.

Locality: 'Cascade Jewel' was grown and observed at Newport Nurseries, Winmalee, New South Wales, Australia

Parentage: Open pollination of *Chamelaucium uncinatum* GW15 (seed parent) by *Chamelaucium uncinatum* GW9 (pollen parent).

Growth habit: Erect plant habit with cascading or weeping new growth, particularly when grown under conditions, such as 25° C. to 30° C. day/15° to 18° C. night temperatures with high nutrition.

Shape: When grown in a glasshouse with weekly nutrient supply the plants develop a semi-erect habit with new growth weeping/hanging down from the more erect firm older growth.

Size: When grown in a 130 millimeter pot in a glasshouse with nutrients supplied weekly approximate dimensions from twelve months from rooted cutting are:

Height:—60 to 75 centimeters.

Width:—20 to 35 centimeters.

Line growth: High branching frequency on main stem and side branch. Medium to high branching frequency on side branches.

Foliage: Mature leaflets at branched node with length 35 millimeters to 45 millimeters; diameter approximately 1.2 millimeters, opposite, linear, almost terete with acutely hooked apex, spreading to reflexed and glabrous. Colour RHS No 139A (green color group).

Flowers: Flowering times are between June through August with fifty percent burst occurring at this time. Flower diameter is approximately 18.2 millimeters (mean reading based on twenty observations), and the petal is of obovate outline. Mature flower colour is R.H.S. No 77B. The petal outline is notched and the petal margin is undulate. The predominate floral tube outline is conical.

Propagation: Propagation by cuttings.

The characteristics of 'Cascade Jewel' were compared closest known *Chamelaucium uncinatum* varieties 'Purple Pride' and 'Burgundy Blush'. Comparative growing trials were conducted in a glasshouse at Winmalee, New South Wales, Australia. Rooted cuttings were potted into a 130 millimeter pots in commercial potting mix in February 1994. Plants were watered as required. Nutrients were supplied once weekly as liquid feed and plant protection sprays were applied as necessary. The trial consisted of twenty plants of each of the cultivars 'Cascade Jewel', 'Purple Pride' and 'Burgundy Blush' randomly arranged. Pots were spaced at 24 centimeter intervals and measurements were taken from each plant in the trial for each of the characteristics recorded.

TABLE OF COMPARISON OF <i>CHAMELAUCIUM UNCINATUM</i> VARIETIES	
CASCADE JEWEL	
PLANT HABIT	Cascading
FLOWERING TIME (50% bud burst)	June/July/August
BUD COLOUR	
<u>With Operculum</u>	
Colour	Red
RHS No	47CD 72B 50C
<u>Without Operculum</u>	
Colour	Purple or purple-violet
RHS No	77B 81B
<u>Floral tube, mid-region</u>	
Colour	Yellow-green or greyed-purple or red-purple
RHS No	144BC 60A 178B
<u>FLOWER DIAMETER (mm)</u>	
Mean	17.6
Range	16.2–19.0
PETAL	
<u>Outline</u>	
<u>Immature colour</u>	
Colour	Red-purple or purple or violet or white
RHS No	69CD 76B 77C 84AB 155CD
<u>Color Development</u>	
Mid-mature colour (5 to 15 days after bud burst)	Fast
<u>Colour</u>	
RHS No	Purple 77BC
<u>Mature Colour</u>	
<u>(ca 20 days after bud burst)</u>	
Colour	Purple
RHS No	77B
<u>NECTARY</u>	
<u>Immature colour</u>	
Colour	Yellow-green
RHS No	144C
<u>Mature colour</u>	
Colour	Greyed-purple
RHS No	187A
<u>STAMINODIA</u>	
Outline	Medium triangular (MT)

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TABLE OF COMPARISON OF <i>CHAMELAUCIUM UNCINATUM</i> VARIETIES		
5	<u>Mature collar colour</u>	
	Colour	Red-purple
	RHS No	64A 67A 68A 72B
	<u>STYLE COLOUR</u>	
10	<u>Immature colour</u>	
	Colour	Red-purple or violet
	RHS No	62ABCD 73D 84C
	<u>Mid-mature colour</u>	
15	Colour	Red-purple
	RHS No	62ABCD 73D 84C
	<u>Mature colour</u>	
	Colour	Purple
	RHS No	62AB 63B 68B
	<u>CALYX LOBE</u>	
20	<u>Mid-mature colour</u>	
	Colour	Purple
	RHS No	77BCD
	<u>Mature colour</u>	
25	Colour	Purple
	RHS No	77BC
	<u>FLORAL TUBE</u>	
	Outline	Intermediate
	Fluting	Present
	<u>Diameter</u>	
	Mean	7.4
	Range	6.5–8.0
	<u>Mid-point colour</u>	
35	Colour	Yellow-green or greyed-red
	RHS No	144C 178A 179A 180A 181A
	<u>FLOWER ARRANGEMENT</u>	
	<u>FLOWER FRAGRANCE</u>	
		Broad distal (BD) Present
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PURPLE PRIDE		
40	PLANT HABIT	Erect
	FLOWERING TIME (50% bud burst)	June/July/August
	<u>BUD COLOUR</u>	
45	<u>With Operculum</u>	
	Colour	Red
	RHS No	47AC 48A 50B
	<u>Without Operculum</u>	
50	Colour	Red purple, or purple or violet
	RHS No	72C 75A 77BC 84B
	<u>Floral tube, mid-region</u>	
	Colour	Red or greyed-purple or green or yellow-green
	RHS No	53B 143C 144C 183A 184A
55	<u>FLOWER DIAMETER (mm)</u>	
	Mean	15.03
	Range	13.4–16.5
	<u>PETAL</u>	
60	<u>Outline</u>	
	<u>Immature colour</u>	
	Colour	Purple
	RHS No	75AB 77D
	<u>Color Development</u>	
		Fast

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TABLE OF COMPARISON OF  
*CHAMELAUCIUM UNCINATUM* VARIETIES

Mid-mature colour (5 to 15 days after bud burst)	
Colour RHS No Mature Colour (ca 20 days after bud burst)	Purple or purple-violet 75A 77B 80A
Colour RHS No NECTARY	Purple or red-purple 72B 77B
Immature colour	
Colour RHS No Mature colour	Yellow-green 144B
Colour RHS No STAMINODIA	Greyed-purple 185A 187AC
Outline Mature collar colour	MT
Colour RHS No STYLE COLOUR	White 155D
Immature colour	
Colour RHS No Mid-mature colour	Red-purple 62ADC
Colour RHS No Mature colour	Red-purple 62ACD
Colour RHS No CALYX LOBE	Red-purple 62D 155D
Mid-mature colour	
Colour RHS No Mature colour	Red-purple or purple 67B 70B 77B
Colour RHS No FLORAL TUBE	Red-purple 72A 77B
Outline Fluting Diameter	Conical Present
Mean Range Mid-point colour	7.34 6.1–8.7
Colour RHS No FLOWER ARRANGEMENT FLOWER FRAGRANCE	Red-purple or greyed-red 59A 178A BD Present
<b>BURGUNDY BLUSH</b>	
PLANT HABIT FLOWERING TIME (50% bud burst) BUD COLOUR	Cascading June/July/August
With Operculum	
Colour RHS No	Red 47D 48ABC

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TABLE OF COMPARISON OF  
*CHAMELAUCIUM UNCINATUM* VARIETIES

5	Without Operculum	
	Colour RHS No Floral tube, mid-region	Purple 77B
10	Colour RHS No FLOWER DIAMETER (mm)	Yellow-green or orange-red, or greyed-purple or red 34C 46A 144C 178A
15	Mean Range PETAL	17.8 14.5–19.4
	Outline Immature colour	Obovate
20	Colour RHS No Color Development Mid-mature colour (5 to 15 days after bud burst)	Purple 45AC 76C 77BC Fast
25	Colour RHS No Mature Colour (ca 20 days after bud burst)	Red-purple 75AB
30	Colour RHS No NECTARY Immature colour	Red-purple 72B
35	Colour RHS No Mature colour	Greyed-orange 167AB
40	Colour RHS No STYLE COLOUR	Greyed-purple 187A
45	Outline Mature collar colour	MT
50	Colour RHS No Mature colour	Red-Purple 64B 71B 72B
55	Colour RHS No CALYX LOBE Mid-mature colour	Red-purple 62BCD 64C 73C
60	Colour RHS No Mature colour	Red-purple 62ACD 72B
65	Colour RHS No FLORAL TUBE	Red-purple 71BD 72B
	Outline Fluting	Flared Present

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TABLE OF COMPARISON OF  
*CHAMELAUCIUM UNCINATUM* VARIETIES

Diameter	
Mean	7.2
Range	6.5-78
Mid-point colour	
Colour	Red or red-purple or greyed-red
RHS No	46A 59A 178AB
FLOWER ARRANGEMENT	BD

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TABLE OF COMPARISON OF  
*CHAMELAUCIUM UNCINATUM* VARIETIES

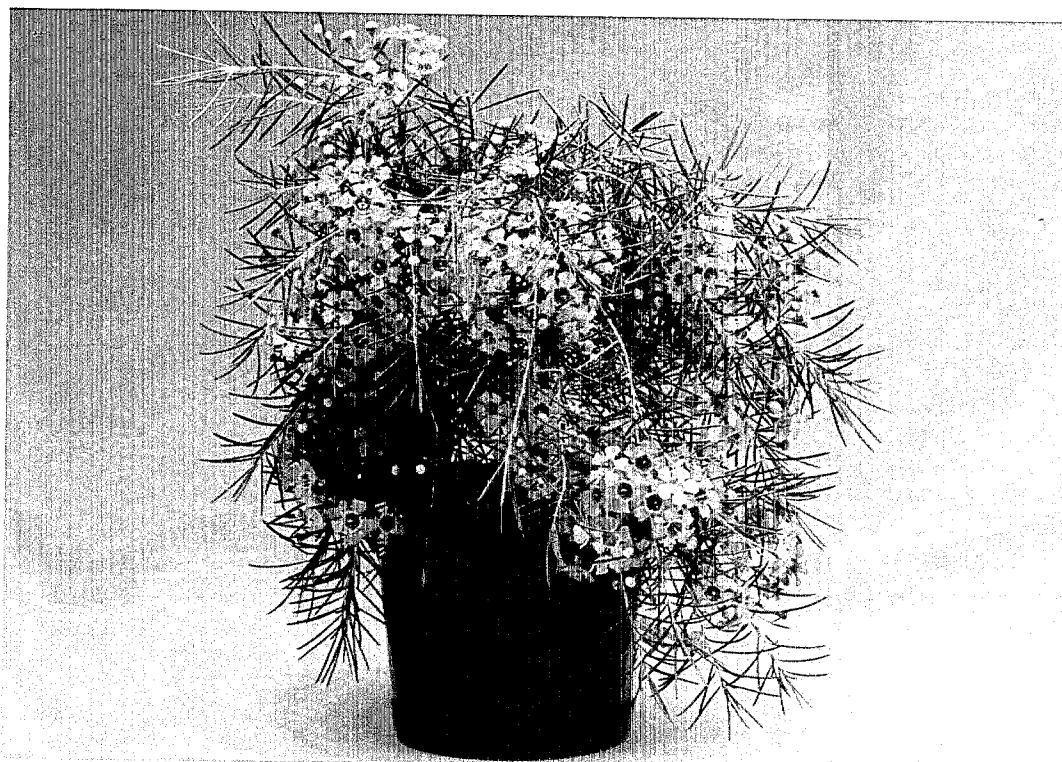
5	FLOWER FRAGRANCE	Present
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We claim:

10 1. A new and distinct *Chamelaucium uncinatum* plant substantially as shown and described herein, distinguished principally from other varieties of its type by fower coulor, flower size, floral tube outline, and growth habit.

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*Fig. 1*



*Fig. 2*

