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# United States Patent [19]

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Angus et al.

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[54] CHAMELAUCIUM UNCINATUM—'CASCADE BROOK'

[58] Field of Search ..... Plt./54.1

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## [57] ABSTRACT

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A new and distinct variety of *Chamelaucium uncinatum* plant, named 'Cascade Brook', particularly characterized by having an erect plant with numerous secondary stems which gracefully weep. Larger than normal flowers occur in summer and winter, with petals in a range of appealing, light to medium purple shades, and having dark purple nectaries.

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2 Drawing Sheets

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#### BACKGROUND INFORMATION

This invention relates to a new and distinct variety of *Chamelaucium uncinatum* which is referred to herein as the new variety "Cascade Brook". "Cascade Brook" was bred by breeders T P Angus and N F Derera, both of 244 Singles Ridge Road, Winmalee, New South Wales, 2777, Australia.

"Cascade Brook" resulted from a controlled pollination carried out on 10 March 1988 between *Chamelaucium uncinatum* variety GW23 (seed parent) by *Chamelaucium uncinatum* variety GW8 (pollen parent). "Cascade Brook" was selected in March 1991 on the basis of flowering time, petal colour, nectary colour, flower size and plant habit. "Cascade Brook" was shown to be stable through two vegetatively propagated generations. The breeding and subsequent characterization of "Cascade Brook" were carried out at Winmalee, New South Wales, Australia.

"Cascade Brook" is most notable for its predominance of mature petal colour R.H.S. No 75A, its large flower diameter (mean greater than 18 millimeters), its biannual flowering habit (winter and summer) and its predominant mature nectary colour of R.H.S. No 187C.

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

#### DESCRIPTION OF THE DRAWINGS

"Cascade Brook" is illustrated by the accompanying photographic drawings:

FIG. 1: Is a photographic print in full colour showing a single potted specimen of "Cascade Brook" which was planted in approximately January 1994. The photograph was taken in June 1994 and the plant is approximately 25 centimeters high×35 centimeters wide.

FIG. 2: Is a photographic print in full colour which compares flowers "Cascade Brook" (signified "GW53"), with comparative *Chamelaucium uncinatum* variety "Pink" (GW24). The figure shows petal coloration from young flower to aged flower.

#### DESCRIPTION OF THE NEW VARIETY

The following is a detailed description of the "Cascade Brook" with colour designations according to the *Horticultural Colour Chart* issued by the British Colour Council in

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collaboration with The Royal Horticultural Society Copyright 1938. The observed traits have been repeatedly observed and are believed to be characteristic of "Cascade Brook" which, in combination, distinguish "Cascade Brook" as a new and distinct cultivar.

Locality: "Cascade Brook" was grown and observed at Newport Nurseries, Winmalee, New South Wales, Australia.

Propagation: By cutting.

Parentage: Controlled pollination of *Chamelaucium uncinatum* GW23 (seed parent) by *Chamelaucium uncinatum* GW8 (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° C. to 18° C. night temperatures with high nutrition.

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

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

Height.—60 to 75 centimeters.

Width.—60 to 75 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 40 to 55 centimeters; diameter of approximately 1 millimeter, opposite, linear, almost terete with spreading hooked apex, spreading to reflexed, and glabrous. Colour R.H.S. No 146A (yellow-green colour group).

Flowers: Flowering is biannual with flowering between December to March (summer flowering) and July to September (winter flowering). Characteristics of flowering are as follows:

Summer flowering.—Flower diameter: Mean about 18.4 millimeters. Mature petal colour: R.H.S. No 77C 84C. Mature nectary colour: R.H.S. No 183A 187 AB.

Winter flowering.—Flower diameter: Mean about 18.6 millimeters. Mature petal colour: R.H.S. No 75A. Mature nectary colour: 187C.

Flower size is large compared to other *Chamelaucium uncinatum*. The petal outline is notched and the petal margin is undulate. The predominate floral tube outline is conical.

In the northern hemisphere flowering results would generally be the reverse of that set out above. Sum-

mer flowering results would be observed between July to September and winter flowering results would be observed between December to March. Comparisons of summer and winter flowering based on twenty plants are set out in Table 1.

TABLE 1

CHARACTERISTICS OF <i>CHAMELAUCIUM UNCINATUM</i> CASCADE BROOK		
	CASCADE BROOK Summer Flowering	CASCADE BROOK Winter Flowering
PLANT HABIT	Cascading	Cascading
FLOWERING TIME (50% bud burst)	December/January/ February	August/ September
BUD COLOUR With Operculum		
Colour	Red	Red
RHS No	41A 42C	41A 42C
Without Operculum		
Colour	Purple	Purple
RHS No	77BC	77C
FLORAL TUBE, MID-REGION		
Colour	Green or yellow green or red- purple	Yellow-green or red-purple
RHS No	59B 143C 144A	59B 144A
FLOWER DIAMETER (mm)		
Mean	18.6	20.8
Range	17.8-19.6	19.1-22.0
PETAL		
Outline	Obovate	Obovate
Immature colour		
Colour	Purple	Purple
RHS No	75C 77CD	75A
Colour Development	Fast	Fast
Mid-mature colour (% to 15 days after bud burst)		
Colour	Purple or violet	Purple or violet
RHS no	75AB 84BC	75AC 84C
Petal		
Mature Colour (ca 20 days after bud burst)		
Colour	Purple or violet	Purple
RHS No	77C 84C	75A
NECTARY		
Immature colour		
Colour	Green	Yellow-green
RHS No	141C 143AC	149B
Mature colour		
Colour	Greyed-purple	Greyed-purple
RHS No	183A 187AB	187C
STAMINODIA		
Outline	Narrow tri- angular (NT)	NT
Mature collar colour		
Colour	White	White
RHS No	155D	155D
STYLE COLOUR		
Immature colour		
Colour	Red-purple or white	White
RHS No	64D 70C 155D	155D

TABLE 1-continued

CHARACTERISTICS OF <i>CHAMELAUCIUM UNCINATUM</i> CASCADE BROOK		
	CASCADE BROOK Summer Flowering	CASCADE BROOK Winter Flowering
Mid-mature colour		
Colour	Red-purple or white	White
RHS No	64D 70C 155D	155D
Mature colour		
Colour	White	White
RHS No	155D	155D
CALYX LOBE		
Mid-mature colour		
Colour	Red-purple	Red-purple
RHS No	62D 65C 73D	65C 73D
Mature colour		
Colour	Purple	Purple
RHS No	76D	76D
FLORAL TUBE		
Outline	Conical	Conical
Fluting	Present	Present
Diameter (mm)		
Mean	8.45	9.2
Range	7.9-9.0	8.7-9.8
Mid-point colour		
Colour	Yellow-green or green	Yellow-green
RHS No	143C 144BC 145A	144C
FLOWER ARRANGEMENT	Broad distal (BD)	BD
FLOWER FRAGRANCE	Present	Present
The characteristics of "Cascade Brook" were compared with the closest known <i>Chamelaucium uncinatum</i> variety "Pink". Observations were made during the winter of 1992 and summer of 1992/1993 from ten plants of each of "Cascade Brook" and "Pink". The plants were selected at random in June 1992 from twelve months old plants grown in a glasshouse at Winmalee, New South Wales, Australia. Results are set out in Table 2.		
TABLE 2		
DRAFT COMPARISON TABLE		
CHARACTER	"PINK" GW24	CASCADE BROOK GW53
FLOWERING TIME	Medium July to September	Early and medium January to March July to September
FLOWERING DIAMETER (MM)		
Mean	18.1	18.4
Std deviation	0.953	0.872
No measured	20	20
PETAL COLOUR		
Immature	75 with margins of 155D	75A with margins of 155D
Mature	75A with margins of 155D	75A with margins of 72C

TABLE 2-continued

DRAFT COMPARISON TABLE		
CHARACTER	"PINK" GW24	CASCADE BROOK GW53
NECTARY COLOUR		
Immature	149B	149B
Mature	186B	187C
FLOWER ARRANGEMENT	Broad distal	Broad distal

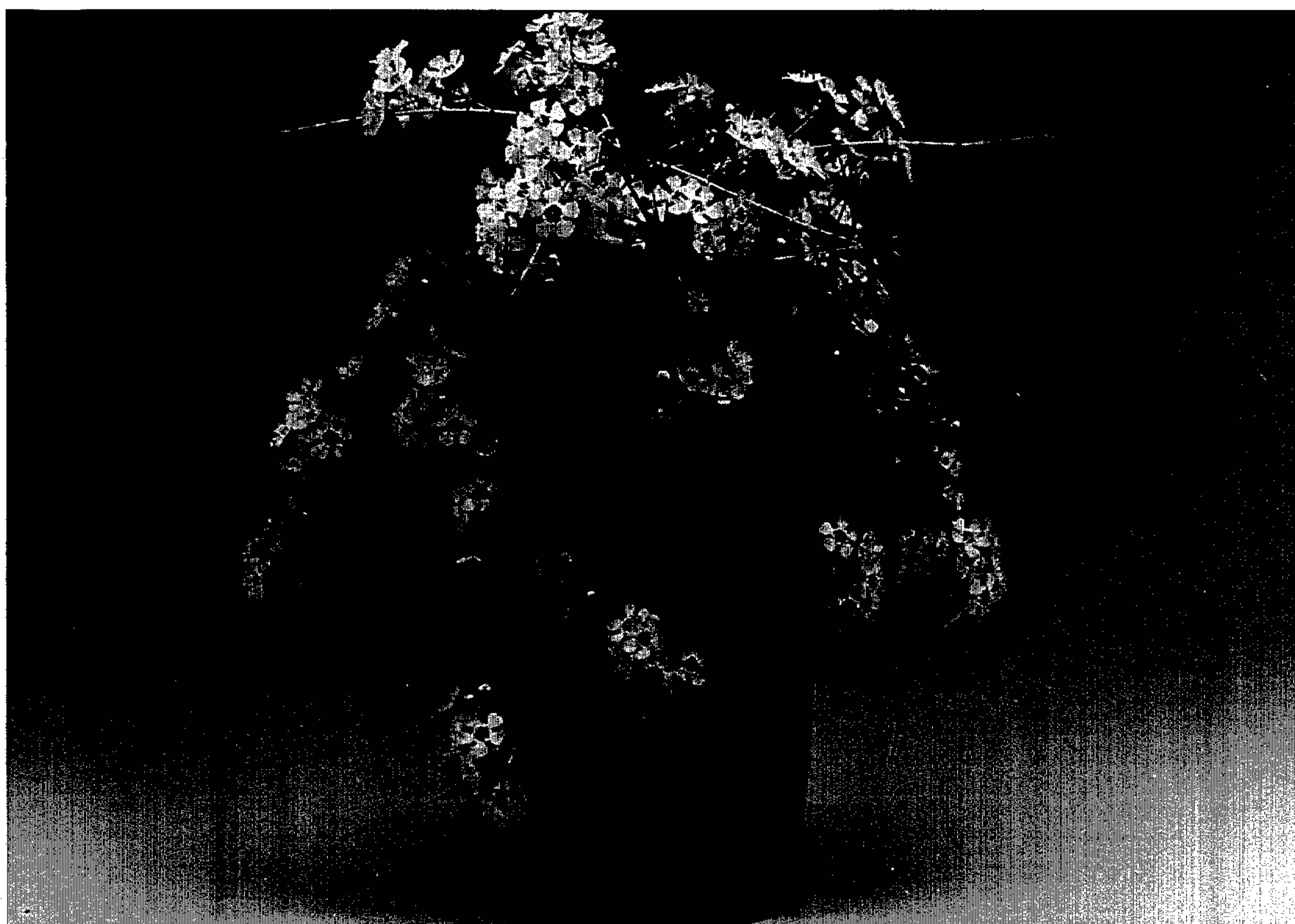
We claim:

1. A new and distinct *Chamelaucium uncinatum* plant substantially as shown and described herein, distinguished principally from other varieties of its type by biannual flowering, petal colour, mature nectary colour and flower size.

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*Fig. 1*



*Fig. 2*

