



APPLICATIONS UNDER EXAMINATION

ARGYRANTHEMUM

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(Argyranthemum)

Proposed denomination: 'Bonmadcivy'
Trade name: Madeira Crested Ivory
Application number: 09-6525
Application date: 2009/03/16
Applicant: Bonza Botanicals Pty., Ltd., Yellow Rock, New South Wales, Australia
Agent in Canada: BioFlora Inc., St. Thomas, Ontario
Breeder: Andrew Bernuetz, Bonza Botanicals Pty., Ltd., Yellow Rock, New South Wales, Australia

Variety used for comparison: 'Bonmadcrel' (Madeira Crested Yellow)

Summary: *The plants of 'Bonmadcivy' are shorter than the plants of 'Bonmadcrel'. The ray floret length is shorter for 'Bonmadcivy' than for 'Bonmadcrel'. The upper and lower side of the ray floret is white for 'Bonmadcivy' while it is yellow green on the upper side and light yellow on the lower side for 'Bonmadcrel'. The disc is grey to white for 'Bonmadcivy' while the disc of 'Bonmadcrel' is yellow.*

Description:

PLANT: rounded growth habit, dense, no stem anthocyanin colouration

LEAF: upper side medium green, lateral lobe with shallow to medium depth incisions

FLOWER: anemone-like

RAY FLORET: straight along longitudinal axis, upper and lower side white (RHS 157D)

DISC FLORET: grey to white (RHS 157C-D).

Origin and Breeding: The variety 'Bonmadcivy' originated from a cross conducted from June 2004 to July 2004 at Yellow Rock, New South Wales, Australia. The female parent was a proprietary selection designated O4-68, characterized by its single flower form, white flower colour, medium green foliage and compact upright growth habit. The male parent was the variety 'Bonmadcrel'. The initial selection was made on April 18, 2005 and propagation since that time has been through the use of vegetative cuttings. Selection criteria included time of flowering, plant habit, number of flowers, flower size and peduncle length.

Tests and Trials: Trials for 'Bonmadcivy' were conducted in a polyhouse during the spring of 2010 at BioFlora Inc. in St. Thomas, Ontario. The trials included a total of 15 plants each of the candidate and reference variety. All plants were grown from rooted cuttings and transplanted into 11 cm pots on April 30, 2010. Observations and measurements were taken from 10 plants of each variety on June 8, 2010. All colour determinations were made using the 2007 Royal Horticultural Society (RHS) Colour Chart.

Comparison table for 'Bonmadcivy'

	'Bonmadcivy'	'Bonmadcrel'*
<i>Plant height (cm)</i>		
mean	13.1	20.4
std. deviation	1.41	1.38
<i>Length of ray floret (cm)</i>		
mean	1.1	1.4
std. deviation	0.10	0.10
<i>Colour of ray floret (RHS)</i>		
upper side	157D	2C
lower side	157D (whiter than)	4D (lighter than)

Colour of disc florets

RHS

157C-D

7C

*reference variety



Bonmadcivy

Madeira Crested Ivory

Bonmadcrel

Madeira Crested Yellow

Argyanthemum: 'Bonmadcivy' (left) with reference variety 'Bonmadcrel' (right)



Bonmadcivy

Bonmadcrel

Argyanthemum: 'Bonmadcivy' (left) with reference variety 'Bonmadcrel' (right)

Proposed denomination: 'Bonmadre'
Trade name: Madeira Red
Application number: 09-6526
Application date: 2009/03/16
Applicant: Bonza Botanicals Pty., Ltd., Yellow Rock, New South Wales, Australia
Agent in Canada: BioFlora Inc., St. Thomas, Ontario
Breeder: Andrew Bernuetz, Bonza Botanicals Pty., Ltd., Yellow Rock, New South Wales, Australia

Varieties used for comparison: 'Supa742' (Meteor Red) and 'Supa1098' (Comet Red)

Summary: *The plants of 'Bonmadre' are shorter than the plants of the reference varieties. The leaf of 'Bonmadre' is shorter and narrower than the leaves of the reference varieties. The lateral leaf lobe of 'Bonmadre' has absent or very shallow margin incisions while the lateral lobe of 'Supa742' has shallow to medium depth incisions and the lateral lobe of 'Supa1098' has medium to deep incisions.*

Description:

PLANT: upright rounded growth habit, dense, stem anthocyanin colouration present

LEAF: upper side medium green, lateral lobe with absent or very shallow incisions

FLOWER: semi-double

RAY FLORET: straight along longitudinal axis, upper side dark purple red (RHS 60A-B), aging to lighter purple red (RHS 60B-C), yellow green (RHS 1C) secondary colour at base, lower side blue pink (RHS 186C) with streaks of brown purple (RHS 186B)

DISC FLORET: red before anther dehiscence, yellow orange after anther dehiscence.

Origin and Breeding: The variety 'Bonmadre' originated from a cross conducted from June 2005 to July 2005 at Yellow Rock, New South Wales, Australia. The female parent was a proprietary selection designated O5-5, characterized by its single flower form, dark pink flower colour, medium green foliage and upright growth habit. The male parent was a bulk pollen mix of proprietary breeding lines characterized by their single flower form, dark red and deep pink flower colours, medium green foliage colour and compact and upright growth habits. The initial selection was made on August 29, 2006 and propagation since that time has been through the use of vegetative cuttings. Selection criteria included flower colour and minimal flower colour fading with age.

Tests and Trials: Trials for 'Bonmadre' were conducted in a polyhouse during the spring of 2010 at BioFlora Inc. in St. Thomas, Ontario. The trials included a total of 15 plants each of the candidate and reference variety. All plants were grown from rooted cuttings and transplanted into 11 cm pots on April 30, 2010. Observations and measurements were taken from 10 plants of each variety on June 8, 2010. All colour determinations were made using the 2007 Royal Horticultural Society (RHS) Colour Chart.

Comparison table for 'Bonmadre'

	'Bonmadre'	'Supa742'*	'Supa1098'*
<i>Plant height (cm)</i>			
mean	15.6	17.7	27.5
std. deviation	1.68	2.33	1.57
<i>Leaf length (cm)</i>			
mean	4.3	5.8	7.4
std. deviation	0.34	0.64	0.73
<i>Leaf width (cm)</i>			
mean	2.9	3.7	4.7
std. deviation	0.41	0.42	0.64
<i>Colour of ray floret (RHS)</i>			
upper side	60A-B, aging to 60B-C	61A (more purple than)	60A, aging to 60A-B
lower side	186C streaked with 186B	186A-B	186C streaked with 186B

*reference varieties



Argyanthemum: 'Bonmadre' (left) with reference varieties 'Supa742' (centre) and 'Supa1098' (right)



Argyanthemum: 'Bonmadre' (left) with reference varieties 'Supa742' (centre) and 'Supa1098' (right)