



APPLICATIONS UNDER EXAMINATION

MONTEREY CYPRESS

MONTEREY CYPRESS
(Cupressus macrocarpa)

Proposed denomination: 'Emerald Crest'
Application number: 06-5668
Application date: 2006/11/10
Applicant: Masanari Ikuma, Millcreek, Washington, United States of America
Agent in Canada: Smiths IP, Vancouver, British Columbia
Breeder: Masanari Ikuma, Millcreek, Washington, United States of America

Variety used for comparison: 'Wilma Goldcrest'

Summary: *Plants of 'Emerald Crest' are taller than 'Wilma Goldcrest'. 'Emerald Crest' has a longer spray than 'Wilma Goldcrest'. The density of branchlets of 'Emerald Crest' is sparse to medium while that of 'Wilma Goldcrest' is medium to dense. The upper and lower side of the leaves of 'Emerald Crest' are dark green (RHS 137A) while those of 'Wilma Goldcrest' are yellow green (RHS 145A).*

Description:

PLANT: evergreen, narrow pyramidal shape, dense foliage, medium green with at least one branch that is yellow green in colour

BRANCH: medium density, erect to semi-erect attitude, medium stiffness, reddish brown bark

SPRAY: sparse to medium density of branchlets, yellow green stem

BRANCHLET: sparse to medium density of tertiary branchlets along secondary branchlets, light green, no anthocyanin colouration on stem

LEAF: imperfect radial arrangement, linear shape, narrow acute apex, entire margin, weakly involute margin fold, dark green (RHS 137A) on upper and lower side

Origin and Breeding: 'Emerald Crest' was discovered as a sport of *Cupressus macrocarpa* 'Wilma Goldcrest' in 2000 in Snohomish, Washigton, US. The selection was based on a darker foliage than its parent 'Wilma Goldcrest'.

Tests and Trials: The trials were conducted in a polyhouse during the summer of 2009 in St. Thomas, Ontario. The trial included a total of 10 plants of the candidate variety and the reference variety. All plants were grown from rooted liners planted into 1 gallon containers. At the time of the trial, plants were almost 2 years old. Observations and measurements were taken on September 18, 2008. All colour measurements were made using the 2007 Royal Horticultural Society (RHS) Colour Chart.

Comparison table for 'Emerald Crest'

	'Emerald Crest'	'Wilma Goldcrest'*
<i>Plant height (cm)</i>		
mean	55.6	48.5
std. deviation	5.23	2.59
<i>Spray length (cm)</i>		
mean	20.1	16.5
std. deviation	1.58	3.33

*reference variety



Monterey Cypress: 'Emerald Crest' (left) with reference variety 'Wilma Goldcrest' (right)



Monterey Cypress: 'Emerald Crest' (left) with reference variety 'Wilma Goldcrest' (right)