



APPLICATIONS UNDER EXAMINATION

SALAL

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(*Gaultheria shallon*)

Proposed denomination: 'Gaulsidh12'
Trade name: Cascade Sunrise
Application number: 21-10463
Application date: 2021/04/15
Applicant: Gurjit Sidhu, Mission, British Columbia
Breeder: Gurjit Sidhu, Mission, British Columbia

Varieties used for comparison: *Gaultheria shallon* and 'Gaulsidh4' (Cascade Sunrise)

Summary: *The plants of 'Gaulsidh12' are larger than the plants of both reference varieties. The plants of 'Gaulsidh12' have dense branching while those of 'Gaulsidh4' have sparse branching. The growth rate of the plants of 'Gaulsidh12' is vigorous while that of 'Gaulsidh4' is slow. The leaf blade of 'Gaulsidh12' is longer than that of both reference varieties and wider than that of 'Gaulsidh4'. The leaf blade of 'Gaulsidh12' is elliptic with a wedged broadly acute base while that of *Gaultheria shallon* is ovate to almost round with a cordate shaped base. The flowering shoot of 'Gaulsidh12' is longer than that of both reference varieties. The flower of 'Gaulsidh12' is larger than that of 'Gaulsidh4' and narrower than that of *Gaultheria shallon*. The fruit of 'Gaulsidh12' is larger than that of both reference varieties.*

Description:

PLANT: shrub, oblate broadly spreading shape, bushy to rounded growth habit, dense branching, vigorous growth rate

STEM: light green, thin, medium density pubescence, round shape in cross-section, smooth bark texture, weak glaucosity, absent or very few lenticels, absent of very few thorns or spines

PETIOLE: weak to medium intensity of anthocyanin colouration

LEAF: simple type, alternate arrangement on stem

LEAF BLADE: elliptic shape, acute to cuspidate apex, wedged (broadly acute) base, very shallow serrate margin, no lobing, no variegation, weak rugosity, weak waviness of margin

LEAF BLADE (UPPER SIDE): medium to dark green at mid-season, absent or very sparse pubescence

LEAF BLADE (LOWER SIDE): light green at mid-season, absent or very sparse pubescence, absent or very weak intensity of anthocyanin colouration on veins

INFLORESCENCE: raceme and panicle type

COROLLA: urceolate shape

COROLLA (INNER SIDE): mainly white (RHS NN155D) with no secondary colour

FRUIT: simple (fleshy) formation, berry type

BERRY SKIN: purple black when ripe, strong glaucosity, medium density pubescence

SEED: very small, white when ripe

Origin and Breeding: 'Gaulsidh12' was discovered and developed by the breeder, Gurjit Sidhu, in Mission, British Columbia. In the spring of 2017, it was discovered as a chance seedling of *Gaultheria shallon* growing in a block of 3.8 litre containers in Mission, British Columbia. 'Gaulsidh12' was selected as a single unique seedling based on its narrow leaves with pointed tips and reddish coloured new leaf growth. 'Gaulsidh12' was first propagated asexually by tissue culture in the spring of 2018 in Mission, British Columbia.

Tests and Trials: The comparative trial for 'Gaulsidh12' was conducted in a greenhouse container trial during the summer of 2021 at BioFlora Inc. in St. Thomas, Ontario. It included a total of 10 shrubs of the candidate and reference varieties. All shrubs were grown from rooted cuttings and transplanted into containers in early spring 2021. Observations and

measurements were taken from 10 shrubs, or parts of 10 shrubs, of each variety on May 12, 2021 and June 23, 2021. All colour determinations were made using the 2015 Royal Horticultural Society (RHS) Colour Chart.

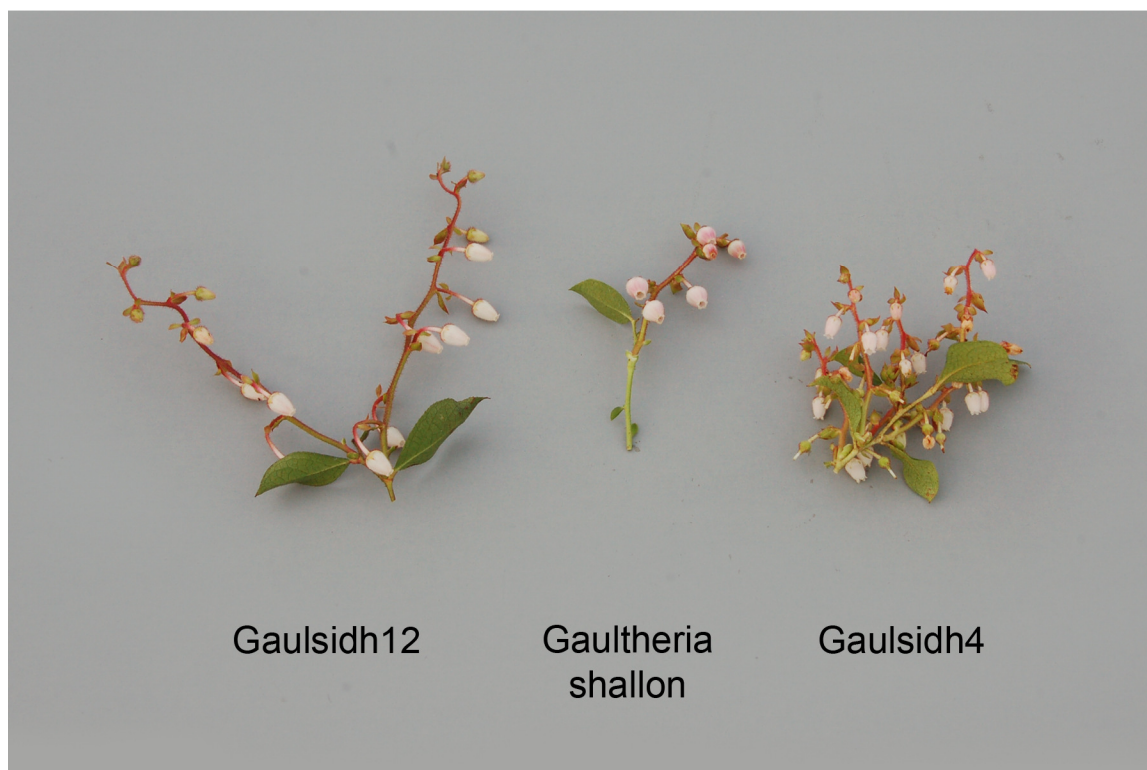
Comparison table for 'Gaulsidh12'

	'Gaulsidh12'	<i>Gaultheria shallon</i> *	'Gaulsidh4'
<i>Plant height (cm)</i>			
mean	29.6	23.2	14.6
std. deviation	2.59	2.68	1.85
<i>Plant width (cm)</i>			
mean	50.1	42.2	24.9
std. deviation	4.17	3.83	1.83
<i>Leaf blade length (cm)</i>			
mean	8.2	6.0	3.9
std. deviation	0.68	0.69	0.21
<i>Leaf blade width (cm)</i>			
mean	4.7	4.9	2.7
std. deviation	0.37	0.26	0.24
<i>Flowering shoot length (cm)</i>			
mean	13.0	5.7	5.5
std. deviation	2.07	0.86	0.62
<i>Flower length (cm)</i>			
Mean	0.91	0.81	0.76
Std. deviation	0.06	0.05	0.05
<i>Flower width (cm)</i>			
mean	0.73	0.81	0.67
std. deviation	0.05	0.07	0.05
<i>Fruit length (cm)</i>			
mean	10.22	8.81	8.12
std. deviation	1.04	0.39	1.05
<i>Fruit width (cm)</i>			
mean	10.24	9.66	7.45
std. deviation	0.33	0.38	0.39

*reference varieties



Salal: 'Gauslidh12' (right) with reference varieties *Gaultheria shallon* (centre) and 'Gauslidh4' (left)



Salal: 'Gauslidh12' (left) with reference varieties *Gaultheria shallon* (centre) and 'Gauslidh4' (right)

Proposed denomination: 'Gaulsidh4'
Trade name: Cascade Sunrise
Application number: 21-10462
Application date: 2021/04/15
Applicant: Gurjit Sidhu, Mission, British Columbia
Breeder: Gurjit Sidhu, Mission, British Columbia

Varieties used for comparison: *Gaultheria shallon* and 'Gaulsidh12' (Cascade Sunride)

Summary: *The plants of 'Gaulsidh4' have sparse branching and are smaller than the plants of both reference varieties, which have dense branching. The growth rate of the plants of 'Gaulsidh4' is slow while that of Gaultheria shallon is moderate to vigorous and that of 'Gaulsidh12' is vigorous. The leaf blade of 'Gaulsidh4' is smaller than that of both reference varieties. The leaf blade of 'Gaulsidh4' is elliptic with a wedged broadly acute base while that of Gaultheria shallon is ovate to almost round with a cordate shaped base. The flowering shoot of 'Gaulsidh4' is shorter than that of 'Gaulsidh12'. The flower of 'Gaulsidh4' is narrower than that of Gaultheria shallon. The fruit of 'Gaulsidh4' is narrower than that of Gaultheria shallon and smaller than that of 'Gaulsidh12'.*

Description:

PLANT: shrub, oblate compact shape, upright to bushy growth habit, sparse density of branching, slow growth rate

STEM: light green, very thin, medium density pubescence, round shape in cross-section, smooth bark texture, weak glaucosity, absent or very few lenticels, absent of very few thorns or spines

PETIOLE: absent or very weak intensity of anthocyanin colouration

LEAF: simple type, alternate arrangement on stem

LEAF BLADE: elliptic shape, acute to cuspidate apex, wedged (broadly acute) base, very shallow serrate margin, no lobing, no variegation, weak rugosity, weak waviness of margin

LEAF BLADE (UPPER SIDE): medium to dark green at mid-season, absent or very sparse pubescence

LEAF BLADE (LOWER SIDE): light green at mid-season, absent or very sparse pubescence, absent or very weak intensity of anthocyanin colouration on veins

INFLORESCENCE: panicle type

COROLLA: urceolate shape

COROLLA (INNER SIDE): mainly white (RHS NN155D) with a flush of pink (RHS 67D) secondary colour near apex

FRUIT: simple (fleshy) formation, berry type

BERRY SKIN: purple black when ripe, strong glaucosity, medium density pubescence

SEED: very small, white when ripe

Origin and Breeding: 'Gaulsidh4' was discovered and developed by the breeder, Gurjit Sidhu, in Mission, British Columbia. In the spring of 2014, it was discovered as a naturally occurring branch mutation of *Gaultheria shallon* growing in a block of 3.8 litres containers in Mission, British Columbia. 'Gaulsidh4' was selected as a single unique seedling based on its very compact growth habit, very small rounded leaves and heavy flowering. 'Gaulsidh4' was first propagated asexually by tissue culture in the spring of 2015 in Mission, British Columbia.

Tests and Trials: The comparative trial for 'Gaulsidh4' was conducted in a greenhouse container trial during the summer of 2021 at BioFlora Inc. in St. Thomas, Ontario. It included a total of 10 shrubs of the candidate and reference varieties. All shrubs were grown from rooted cuttings and transplanted into containers in early spring 2021. Observations and measurements were taken from 10 shrubs, or parts of 10 shrubs, of each variety on May 12, 2021 and June 23, 2021. All colour determinations were made using the 2015 Royal Horticultural Society (RHS) Colour Chart.

Comparison table for 'Gaulsidh4'

	'Gaulsidh4'	<i>Gaultheria shallon</i> *	'Gaulsidh12**'
<i>Plant height (cm)</i>			
mean	14.6	23.2	29.6
std. deviation	1.85	2.68	2.59
<i>Plant width (cm)</i>			
mean	24.9	42.2	50.1
std. deviation	1.83	3.83	4.17
<i>Leaf blade length (cm)</i>			
mean	3.9	6.0	8.2
std. deviation	0.21	0.69	0.68
<i>Leaf blade width (cm)</i>			
mean	2.7	4.9	4.7
std. deviation	0.24	0.26	0.37
<i>Flowering shoot length (cm)</i>			
mean	5.5	5.7	13.0
std. deviation	0.62	0.86	2.07
<i>Flower length (cm)</i>			
mean	0.76	0.81	0.91
std. deviation	0.05	0.05	0.06
<i>Flower width (cm)</i>			
mean	0.67	0.81	0.73
std. deviation	0.05	0.07	0.05
<i>Fruit length (cm)</i>			
mean	8.12	8.81	10.22
std. deviation	1.05	0.39	1.04
<i>Fruit width (cm)</i>			
mean	7.45	9.66	10.24
std. deviation	0.39	0.38	0.33

*reference varieties

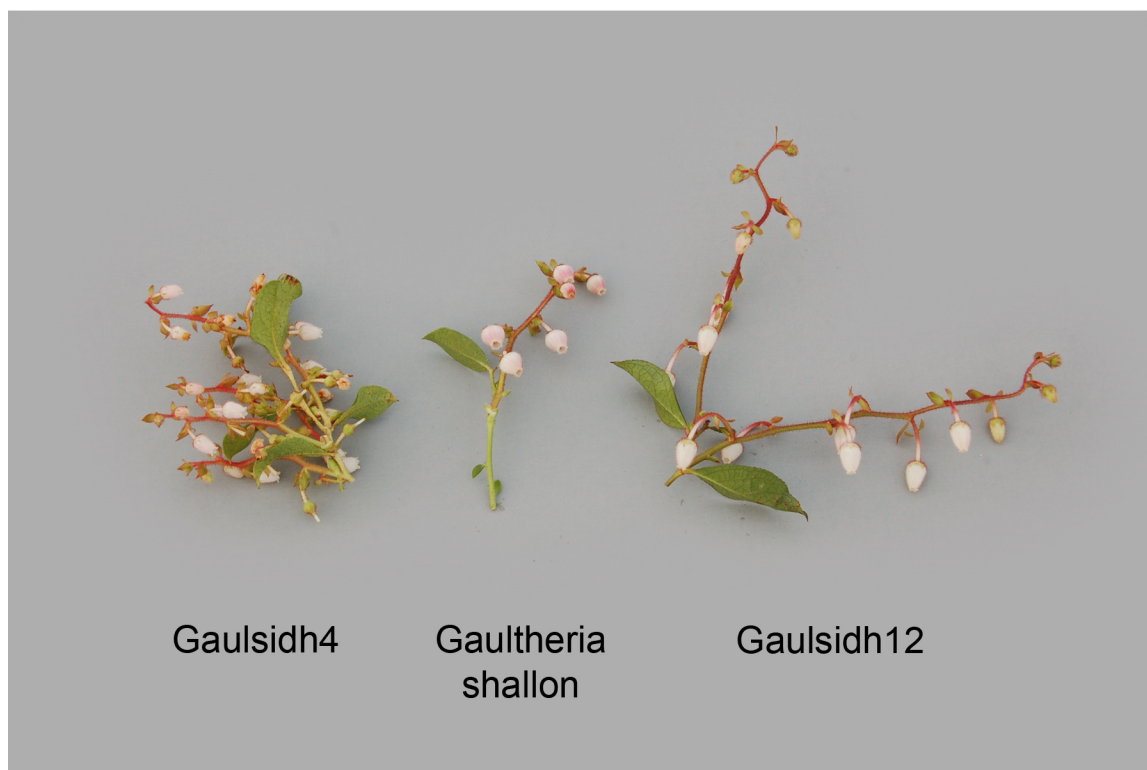


Gauslidh4

Gaultheria shallon

Gauslidh12
Cascade Sunride

Salal: 'Gauslidh4' (left) with reference varieties *Gaultheria shallon* (centre) and 'Gauslidh12' (right)



Gauslidh4

Gaultheria shallon

Gauslidh12

Salal: 'Gauslidh4' (left) with reference varieties *Gaultheria shallon* (centre) and 'Gauslidh12' (right)