



APPLICATIONS UNDER EXAMINATION

RASPBERRY

RASPBERRY (*Rubus idaeus*)

Proposed denomination: 'BC90423'
Application number: 09-6751
Application date: 2009/10/23
Applicant: Agriculture & Agri-Food Canada, Agassiz, British Columbia
Agent in Canada: Okanagan Plant Improvement Corporation (PICO), Summerland, British Columbia
Breeder: Chaim Kempler, Agriculture & Agri-Food Canada, Agassiz, British Columbia

Varieties used for comparison: 'Tulameen' and 'Meeker'

Summary: *The number of current season's canes of 'BC90423' is medium while it is many for 'Meeker'. The dormant canes of 'BC90423' are longer than those of 'Tulameen'. The dormant canes of 'BC90423' are brownish grey while those of the reference varieties are greyish brown. The anthocyanin colouration on the current season's cane has medium intensity in 'BC90423', while it is absent or very weak in 'Tulameen', and weak in 'Meeker'. 'BC90423' has sparse density of spines while they are medium to dense in 'Meeker'. The fruit of 'BC90423' is medium to broad while the fruit of 'Meeker' is narrow to medium in width. Time of vegetative bud burst of 'BC90423' is early, while it is medium in 'Tulameen', and late in 'Meeker'. Time of beginning of flowering and fruit ripening on previous year's cane of 'BC90423' is early while it is medium for the reference varieties. The fruiting period of 'BC90423' is medium in length while it is long for 'Tulameen'.*

Description:

PLANT: upright growth habit, medium number of current season's canes, fruit bearing on previous year's canes in summer only

VERY YOUNG SHOOT: weak anthocyanin colouration at apex during rapid growth

CURRENT SEASON'S CANE: medium bloom, medium anthocyanin colouration, medium length internode, medium length vegetative bud

PREVIOUS SEASON'S CANE IN SUMMER: brownish grey dormant cane, erect attitude of fruiting lateral, time of vegetative bud burst is early, time of beginning of flowering is early, time of beginning of fruit ripening is early, length of fruiting period is medium

SPINES: present, sparse density, small size of base, medium length, brownish purple

LEAF: medium green on upper side, equally three and five leaflets per leaf, convex profile in cross-section, medium rugosity, free position of lateral leaflets

PEDICEL: few spines

PEDUNCLE: no anthocyanin colouration

FLOWER: medium size

FRUIT: medium length, medium to broad in width, medium length/width ratio, conical in lateral view, medium size single drupe, medium to dark red, medium glossiness, firm, weak adherence to plug

Origin and Breeding: 'BC90423' is the result of a cross made in 1990 between 'Qualicum' and 'BC86-41-15' at the Pacific Agri-Food Research Centre, Abbotsford substation, British Columbia. The selection criteria used were fruit appearance, taste, flesh texture, harvest timing, plant quality, productivity, precocity, and disease resistance.

Tests and Trials: Trials for 'BC90423' were conducted at the Pacific Agri-Food Research Centre, Abbotsford Substation, British Columbia during 2009 and 2010. The trial included 25 plants per variety, separated into 3 replications. Plots were 3 metres long rows, with a plant spacing of 0.9 metres between plants and 3 metres between the rows.

Comparison table for 'BC90423'

	'BC90423'	'Tulameen'*	'Meeker**
<i>Dormant cane: length (cm)</i>			
mean	199.70	190.00	207.50
standard deviation	10.02	9.48	9.35

*reference varieties



Raspberry: 'BC90423' (top, centre) with the reference varieties 'Tulameen' (bottom left) and 'Meeker' (bottom right)

Proposed denomination: 'BC92641'
Application number: 09-6752
Application date: 2009/10/23
Applicant: Agriculture & Agri-Food Canada, Agassiz, British Columbia
Agent in Canada: Okanagan Plant Improvement Corporation (PICO), Summerland, British Columbia
Breeder: Chaim Kempler, Agriculture & Agri-Food Canada, Agassiz, British Columbia

Varieties used for comparison: 'Tulameen' and 'Meeker'

Summary: *The anthocyanin colouration on the current season's cane of 'BC92641' is weak while it is absent or very weak for 'Tulameen'. 'BC92641' has longer dormant canes than 'Tulameen'. The fruiting lateral of 'BC92641' is longer in length than for the reference varieties. The fruit length of 'BC92641' is medium to long while it is short to medium in 'Meeker'. The fruit width of 'BC92641' is medium to broad while it is narrow to medium in 'Meeker'. Time of vegetative bud burst of*

'BC92641' is medium while it is late for 'Meeker'. The fruiting period of 'BC92641' is short to medium in length while it is long for 'Tulameen'.

Description:

PLANT: upright growth habit, many number of current season's canes, fruit bearing on previous year's canes in summer only

VERY YOUNG SHOOT: no anthocyanin colouration at apex during rapid growth

CURRENT SEASON'S CANE: medium bloom, weak anthocyanin colouration, medium length internode, medium length vegetative bud

PREVIOUS SEASON'S CANE IN SUMMER: brownish grey dormant cane, erect attitude of fruiting lateral, time of vegetative bud burst is medium, time of beginning of flowering is medium, time of beginning of fruit ripening is medium, length of fruiting period is short to medium

SPINES: present, medium density, very small to small size of base, short length, purple

LEAF: medium green on upper side, equally three and five leaflets per leaf, convex profile in cross-section, medium rugosity, free position of lateral leaflets

PEDICEL: absent or very few spines

PEDUNCLE: medium anthocyanin colouration

FLOWER: medium size

FRUIT: medium to long length, medium to broad in width, medium to large length/width ratio, conical in lateral view, small size single drupe, medium to dark red, medium glossiness, firm, weak adherence to plug

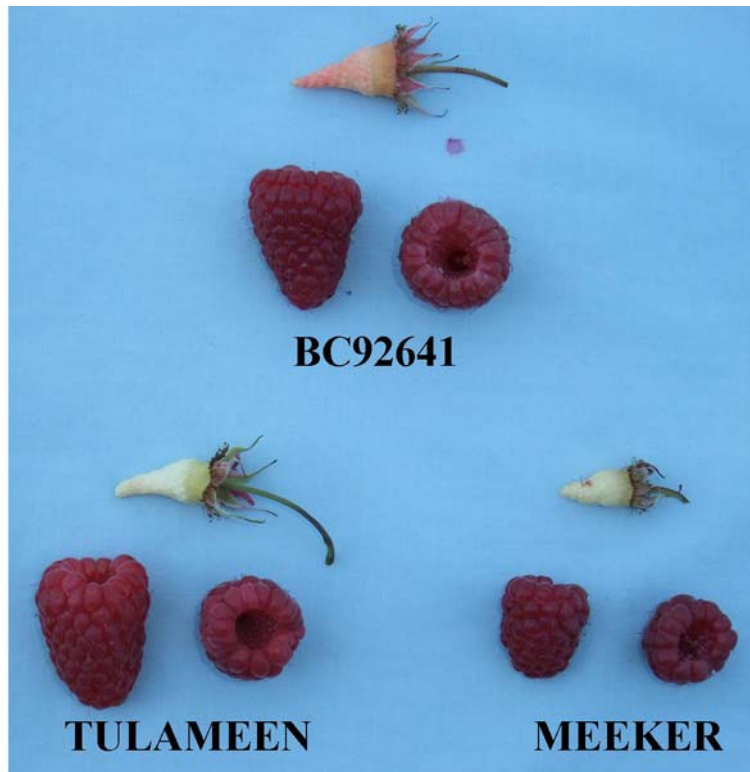
Origin and Breeding: 'BC92641' is the result of a cross made in 1992 between 'Chilliwick' and 'BC86-41-15' at the PARC-Abbotsford Substation, British Columbia. The parentage includes 'BC64-10-198', Skeena, and a wild raspberry *R. strigosus*, clone collected from Québec which has a high level of resistance to root rot. The selection criteria used were fruit appearance, taste, flesh texture, harvest time, plant quality, productivity, precocity, and disease resistance.

Tests and Trials: Trials for 'BC92641' were conducted at the Pacific Agri-Food Research Centre, Abbotsford Substation, British Columbia during 2009 and 2010. The trial included 25 plants per variety separated into 3 replication plots. Plots were 3 metres long rows with a plant spacing of 0.9 metres between plants and 3 metres between the rows.

Comparison table for 'BC92641'

	'BC92641'	'Tulameen'*	'Meeker'*
<i>Dormant cane: length (cm)</i>			
mean	210.30	190.00	207.05
standard deviation	6.96	9.48	9.35
<i>Fruiting lateral: length (cm)</i>			
mean	72.90	50.20	59.50
standard deviation	4.82	7.89	11.40

*reference varieties



Raspberry: 'BC92641' (top, centre) with the reference varieties 'Tulameen' (bottom, left) and 'Meeker' (bottom, right)
