



APPLICATIONS UNDER EXAMINATION

PEAR

PEAR
(*Pyrus ussuriensis*)

Proposed denomination: 'Paul'
Application number: 10-6839
Application date: 2010/02/18
Applicant: Paul Hamer, Dewinton, Alberta
Agent in Canada: Agriclaim Canada Inc., Calgary, Alberta
Breeder: Paul Hamer, Dewinton, Alberta

Note: The applicant has requested an exemption from compulsory licensing to allow time to multiply and distribute propagating material of the variety. If the exemption is granted, it may be allowed for two years from the date rights are granted for the variety.

Varieties used for comparison: 'Ure' and 'Golden Spice'

Summary: *The leaves of 'Paul' are longer and wider than those of both reference varieties. The curvature of the longitudinal axis of 'Paul' is strong whereas it is medium on 'Ure' and weak on 'Golden Spice'. The fruit of 'Paul' are large whereas those of 'Ure' and 'Golden Spice' are small. The depth of the stalk cavity of 'Paul' is medium whereas it is very shallow in 'Ure' and absent to very shallow in 'Golden Spice'.*

Description:

TREE: strong vigour, very strong branching, semi-upright habit, begins flowering mid-season, late maturity for consumption

ONE YEAR OLD SHOOTS: straight growth, brown red on sunny side, medium number of lenticels

VEGETATIVE BUD: obtuse apex, adpressed position in relation to the shoot, medium sized bud support

YOUNG SHOOTS: medium intensity of anthocyanin colouration of growing tip, weak pubescence on upper third

LEAF: outwards attitude in relation to shoot, small length/width ratio, obtuse base and apex, short pointed tip, sharply serrate margin, deep incisions, strong curvature of longitudinal axis

STIPULES: absent

FLOWER: mainly on spurs, stigma located below stamens

SEPALS: adpressed in relation to corolla, brown in colour in early summer

PETALS: touching, large, ovate, truncate base, medium length claw

FRUIT: large length/diameter ratio, position of maximum diameter in middle, large size, symmetric in longitudinal cross section, convex profile of sides

SKIN: yellow green ground colour, small amount of orange red over colour, absent or very small area of russet located around eye basin, on cheeks and around stalk attachment

STALK: thick, medium curvature, oblique attitude in relation to axis of the fruit, medium depth of stalk cavity

EYE BASIN, AT HARVEST: erect sepals, shallow depth, narrow width, smooth relief around eye

FLESH: coarse texture, firm, juicy

SEED: elliptic

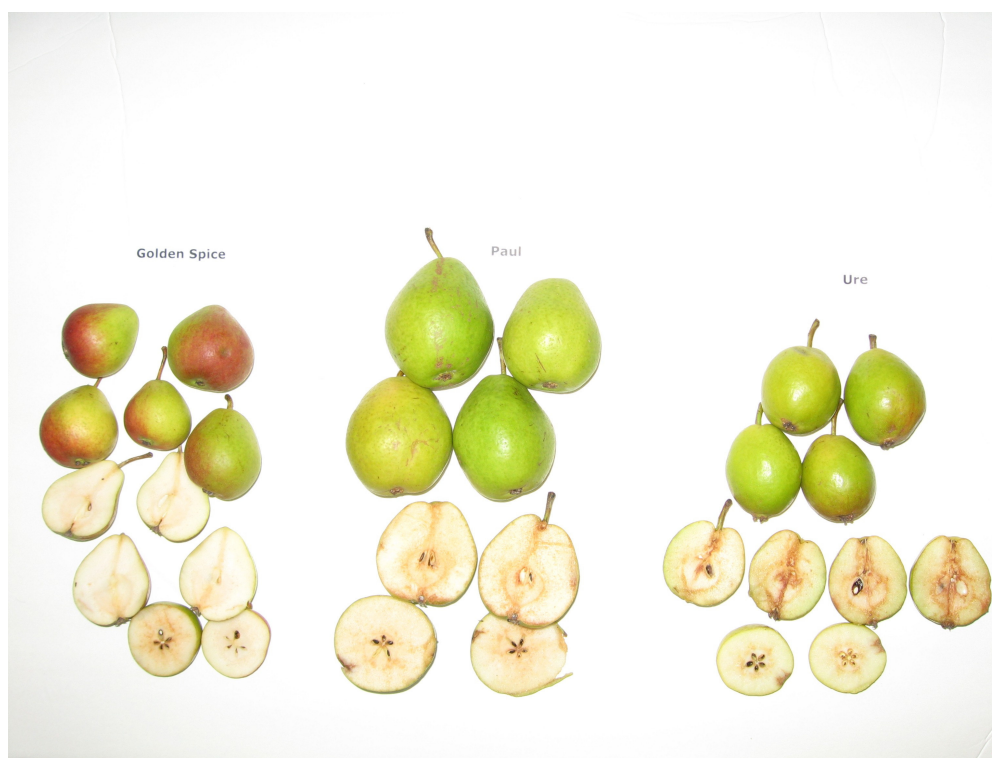
Origin and Breeding: In 1995, seedlings of an unknown pear variety were discovered growing at Saskatoon Farm near Dewinton, Alberta. Several seedlings were evaluated for fruit size, shape and flavour. On the basis of these selection criteria, 'Paul' was selected in 1999 and was grafted onto wild *Pyrus ussuriensis* rootstock.

Tests and Trials: Tests and trials for 'Paul' were conducted during the 2008 to 2010 growing seasons at Saskatoon Farm, Dewinton, Alberta. There were 10 trees of the candidate variety and 3 trees of each reference variety. The trial was planted in 2005 with trees spaced 4 meters apart within the row and approximately 3 meters apart between the rows. Measured characteristics were based on 10 measurements.

Comparison table for 'Paul'

	'Paul'	'Ure'*	'Golden Spice'*
<i>One year old shoot internode length (cm)</i>			
mean	4.6	2.8	2.8
std. deviation	0.69	0.34	0.25
<i>Leaf length (cm)</i>			
mean	8.1	6.4	4.95
std. deviation	0.99	0.69	0.72
<i>Leaf width (cm)</i>			
mean	6.5	4.8	3.5
std. deviation	0.96	0.42	0.47
<i>Fruit length (cm)</i>			
mean	7.0	4.6	4.55
std. deviation	0.23	0.56	0.43
<i>Maximum diameter of fruit (cm)</i>			
mean	6.3	4.1	3.8
std. deviation	0.67	0.39	0.34

*reference varieties



Pear: 'Paul' (centre) with reference varieties 'Golden Spice' (left) and 'Ure' (right)