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(12) **United States Plant Patent**
Olsen

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(54) **PEAR TREE NAMED ‘OLSEN BOSCH’**

(50) Latin Name: *Pyrus communis* L.
Varietal Denomination: **Olsen Bosch**

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(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

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(58) **Field of Classification Search**
USPC Plt./176
See application file for complete search history.

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(57) **ABSTRACT**
The ‘Olsen Bosch’ pear tree, a mutation of ‘Bosc’, is notable for its distinctive fruit. Profound russetting on substantially the entire surface of the skin gives ‘Olsen Bosch’ pears a distinctive bronze appearance.

3 Drawing Sheets

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Latin name: *Pyrus communis* L.
Variety denomination: ‘Olsen Bosch’.

BACKGROUND OF THE VARIETY

‘Olsen Bosch’ is a new and distinct variety of pear tree (*Pyrus communis* L.) discovered as a limb mutation of a ‘Bosc’ pear tree (not patented) growing in a cultivated pear orchard near Zillah, Wash. in 2000. Fruit on the mutated limb was observed to be smoother and more russeted than fruit found elsewhere on the tree. After several years of observation, buds from the limb mutation were asexually propagated by grafting at a fruit tree nursery near Quincy, Wash. in 2007. ‘Olsen Bosch’ has since been asexually reproduced and fruited through successive generations at Quincy, Wash., and has been observed to remain true to type.

BRIEF DESCRIPTION OF THE VARIETY

‘Olsen Bosch’ was first distinguished from the parent tree, and later selected for further observation and propagation, because of its distinctive fruit. The profound russetting on substantially all of the fruit surface gives the fruit a distinctive bronze appearance. ‘Olsen Bosch’ is also distinguished from similar variety ‘Golden Russet Bosc’ (U.S. Plant Pat. No. 5,243, expired). A comparison of the fruit of ‘Olsen Bosch’ to ‘Golden Russet Bosc’ is set forth in Table 1 below.

TABLE 1

Comparison of fruit of ‘Olsen Bosch’ to ‘Golden Russet Bosc’		
	‘Olsen Bosch’	‘Golden Russet Bosc’
Amount of russet on skin	95% to 100%	40% to 60%
Texture of russet	Rougher, duller	Smoother, more shiny
Surface smoothness	Fewer bumps and protruberances	More bumps and protruberances
Fruit lenticels	More pronounced	Less pronounced
Fruit shape	Between pyriform and long pyriform	More toward long pyriform
Shape of calyx end	Flatter, with little to no crowning	Pronounced crowning

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TABLE 1-continued

Comparison of fruit of ‘Olsen Bosch’ to ‘Golden Russet Bosc’		
	‘Olsen Bosch’	‘Golden Russet Bosc’
Flesh	Firmer and sweeter (16 °Brix); less acid	Less firm; less sweet (15.5 °Brix); slightly juicier
Stem diameter	2.5 mm to 3 mm	2.5 mm

BRIEF DESCRIPTION OF THE PHOTOGRAPHS

FIG. 1 is a photograph of a nine-year-old ‘Olsen Bosch’ tree taken in March 2018 near Zillah, Wash.;
FIG. 2 is a photograph of fruit of ‘Olsen Bosch’; and,
FIG. 3 is a photograph of standard ‘Bosc’ (left), ‘Golden Russet Bosc’ (center), and ‘Olsen Bosch’ (right) pears.

DETAILED BOTANICAL DESCRIPTION OF THE VARIETY

The following-detailed botanical description is based on observations made near Zillah, Wash. during the 2015 growing season (unless otherwise noted). The described trees were six years old, grown on ‘Old Home x Farmingdale 97’ rootstock (not patented). All colors are described according to the Munsell Book of Color. It should be understood that the characteristics described will vary somewhat depending upon cultural practices and climatic conditions, and will vary with location and season. Quantified measurements are expressed as an average of measurements taken from a number of individual plants of the new variety. The measurements of any individual plant or any group of plants of the new variety may vary from the stated average.

Tree:
Vigor.—Highly vigorous, similar to ‘Bosc’.
Habit.—Upright to spreading.
Height.—About 3.6 m to 5.5 m.
Spread.—About 3.0 m.

Trunk diameter (at 30 cm above the graft).—16 cm.
Bark texture.—Rough.
Bark color.—Gray 7.5 Y 7/2.
Winter hardiness.—Similar to ‘Bosc’.
 Branch (fruiting branches located at around 1 m above the graft union):
Length.—2.8 m.
Diameter.—7 cm to 11 cm.
Crotch angle.—90°.
Bark color.—Gray 7.5 Y 7/2.
 One year old shoot:
Length.—18 cm to 50 cm.
Color.—Medium brown 7.5YR 4/4.
Pubescence.—None, glabrous.
Thickness.—8 mm to 12 mm.
Internode length.—4 cm to 7 cm.
Pubescence.—None, glabrous.
Number of lenticels.—4 to 10 per cm².
Vegetative bud shape.—Broad ovoid, typical of ‘Bosc’.
Vegetative bud color.—Dark brown 7.5 YR 3/4.
Position of vegetative buds in relation to shoot.—Approximately 45°, typical of ‘Bosc’.
 Flower buds:
Quantity per spur.—2 to 4.
Shape.—Broad ovoid.
Length.—8 mm to 10 mm.
Diameter.—4 mm to 6 mm.
Color.—Light brown 7.5 YR 4/2.
 Flowers:
Diameter of fully open flower.—30 mm to 40 mm.
Depth of open flower.—10 mm.
Relative position of petal margin.—Usually not touching, sometimes touching at base.
Number per cluster.—6 to 10.
Date of first bloom.—Mar. 23, 2015; Apr. 2, 2016.
Date of full bloom.—Mar. 28, 2015; Apr. 7, 2016.
Pollination requirement.—Pollinator required, similar to ‘Bosc’.
 Petals:
Number per flower.—5.
Shape.—Elongated.
Length.—18 mm to 20 mm.
Width.—10 mm.
Margin.—Smooth.
Color of upper surface.—White.
Color of lower surface.—White.
 Pistils:
Length.—6 mm to 8 mm.
Color.—Yellow white 7.5 Y 9/2.
 Stigma:
Length.—6 mm.
Color.—Yellow white 7.5 Y 9/2.
 Style:
Length.—10 mm.
Color.—Yellow white 7.5 Y 9/2.
 Ovary:
Size.—4 mm.
Color.—Light green 7.5 Y 6/6.
 Anthers:
Quantity.—16 to 20 per flower.
Length.—1.5 mm.
Presence of pollen.—Present.
Color of pollen.—Yellow 7.5 Y 8.5/12.

Pedicel:
Length.—18 mm to 20 mm.
Diameter.—2 mm.
Color.—Light green 2.5 GY 7/6.
 Sepals:
Quantity.—5 per flower.
Length.—5 mm.
Width.—2 mm.
Shape.—Ranging from linearly lanceolate to lanceolate with a wide base.
Apex.—Slightly indented.
Margin.—Smooth.
Attitude in relation to corolla.—Spreading.
 Leaves:
Shape.—Ovate.
Length.—7 cm to 10 cm.
Width.—2 cm to 8 cm.
Length/width ratio.—Ranging from 1:1 to 3:1.
Blade margin.—Entire.
Apex.—Acute to acuminate.
Base.—Generally rounded; cuneate to obtuse.
Color of upper surface.—Dark green 10GY 3/4.
Color of lower surface.—Light green 10 GY 5/4.
Attitude in relation to shoot.—30° to 60°.
Curvature of longitudinal axis.—Downward, from 90° to 180° from the vertical shoot.
 Petiole:
Length.—2.5 cm to 3.5 cm.
Diameter.—2 mm.
Petiole color.—Yellowish green 2.5 GY 8/6.
Stipule color.—Yellowish green 2.5 GY 8/6.
Stipule shape.—Spinose.
Stipule length.—8 mm to 13 mm.
Stipule width.—0.5 mm.
Stipule apex.—Sharply pointed.
 Fruit:
Quantity per cluster.—2 to 4.
Height.—9.5 cm to 11 cm; average 10.2.
Width.—6.5 cm to 7.8 cm; average 7.0 cm.
Ratio of height to width.—10:7.
Weight.—216 g; similar to ‘Golden Russet Bosc’.
General shape in profile.—Pyriform; less elongated than ‘Golden Russet Bosc’.
Position of maximum diameter.—Lower third.
Symmetry in longitudinal section.—Asymmetrical; more pronounced than ‘Golden Russet Bosc’.
Profile of sides.—Concave.
Skin texture.—Russeted and dull.
Background color of skin.—Yellowish brown 7.5 YR 7/10.
Area of over color of skin.—95% to 100%.
Intensity of over color of skin.—Intense.
Color of overcolor.—Reddish brown 7.5 YR 5/6.
Relative area of russet around eye basin.—90% to 100%.
Relative area of russet on cheeks.—95% to 100%.
Relative area of russet on stalk attachment.—100%.
Length of stalk.—3 cm to 4 cm; average 3.4 cm.
Diameter of stalk.—2.5 mm to 3 mm.
Curvature of stalk.—Somewhat curved, typical of ‘Bosc’.
Attitude of stalk in relation to axis of fruit.—Somewhat off-center, typical of ‘Bosc’.
Stalk color.—Dark brown 7.5 YR 3/4.
Depth of eye basin.—4 mm.

Width of eye basin.—17 mm.
Firmness of flesh.—17 to 22; average 19 lbs. pressure.
Flesh texture.—Crisp and fine-grained.
Aroma.—Aromatic.
Juiciness.—Medium to juicy.
Brix.—16° Brix.
Flesh color.—Cream 7.5 Y 9/4, translucent.
Seeds:
Quantity per fruit.—7.
Shape.—Obovate.
Length.—7 mm.
Width.—5 mm.
Color.—Dark brown 7.5 Y 2/2.

Harvest:
Time for harvest.—Sep. 2, 2015; Aug. 29, 2016.
Time of maturity for consumption.—5 to 10 days after harvest.
5 *Amount of fruit produced per 200 trees.*—12,100 lbs. (2014), 11,000 lbs. (2015), 16,500 lbs. (2016).
Disease resistance/susceptibility: Similar to ‘Bosc’.
Market use: Fresh, dessert.
Storage characteristics: Excellent.
10 I claim:
1. A new and distinct pear tree substantially as described and illustrated herein.
* * * * *



FIG. 1



FIG. 2



FIG. 3