



US00PP33972P2

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

(10) **Patent No.:** **US PP33,972 P2**
(45) **Date of Patent:** **Mar. 1, 2022**

(54) **PLUM TREE NAMED ‘AJOP20’**
(50) Latin Name: *Prunus salicina*
Varietal Denomination: **AJOP20**
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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.
(21) Appl. No.: **17/300,385**
(22) Filed: **Jun. 9, 2021**
(51) **Int. Cl.**
A01H 5/08 (2018.01)
A01H 6/74 (2018.01)
(52) **U.S. Cl.**
USPC **Plt./184**

(58) **Field of Classification Search**
USPC Plt./184, 180
See application file for complete search history.
(56) **References Cited**

FOREIGN PATENT DOCUMENTS

AU 2019010-V * 2/2019
* cited by examiner

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(57) **ABSTRACT**
A Japanese plum tree named ‘AJOP20’ distinguished by its
early season harvest maturity and its large high-quality fruit
with yellow and pink-red skin color, good flavor and heavy
cropping.

5 Drawing Sheets

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Latin name: *Prunus salicina*.
Variety denomination: ‘AJOP20’.

**BACKGROUND AND SUMMARY OF THE
VARIETY**

The new Japanese plum tree named ‘AJOP20’ originated
as a seedling from a ‘Teak Gold’ plum tree (U.S. Plant Pat.
No. 10,277). The breeder extracted seeds from fruit har-
vested from ‘Teak Gold’ trees growing in a cultivated
orchard near Shepparton East, Victoria, Australia in Novem-
ber 2012. The seeds were stratified in the bottom of the
refrigerator in moist perlite for three months, and then
planted in the nursery in 2013. Once the seedlings began to
grow in the spring of 2013, they were transplanted to the
orchard for observation. The first fruits were seen on the
seedling trees in November and December 2016. One seed-
ling in particular fruited much earlier than the other seed-
lings, and was labelled as ‘AJOP20’. Beginning in Novem-
ber 2016, additional ‘AJOP20’ plum trees were topworked
in the orchard at Shepparton East for further evaluation in
subsequent years. The ‘AJOP20’ plum trees were particu-
larly distinguished by their early season harvest maturity as
compared to ‘Teak Gold’, high quality large to very large
fruit with yellow and pink-red skin color, good flavor and
heavy cropping, as shown in Table 1. Comparisons of
‘AJOP20’ to plum varieties ‘Earlqueen’ (U.S. Plant Pat. No.
8,583) and ‘Suplumtwentytwo’ (U.S. Plant Pat. No. 13,171)
are shown in Tables 2 and 3.

TABLE 1		
Comparison of ‘AJOP20’ to parent variety ‘Teak Gold’		
Characteristic	‘AJOP20’	‘Teak Gold’
Time of harvest maturity	Very early	Mid-season
Fruit sweetness (Brix)	High	Medium to high

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TABLE 1-continued

Comparison of ‘AJOP20’ to parent variety ‘Teak Gold’		
Characteristic	‘AJOP20’	‘Teak Gold’
Fruit skin color	Pink-red, block pattern	Mottled red, blotchy pattern
Fruit size	Large	Large

TABLE 2

Comparison of ‘AJOP20’ to parent variety ‘Earlqueen’		
Characteristic	‘AJOP20’	‘Earlqueen’
Time of harvest maturity	Very early	Very early
Fruit sweetness (Brix)	High	Low to medium
Fruit skin color	Pink-red, block pattern	Garnet red to maroonish blue black
Fruit flesh color	Medium yellow- orange	Pale yellow

TABLE 3

Comparison of ‘AJOP20’ to parent variety ‘Suplumtwentytwo’		
Characteristic	‘AJOP20’	‘Suplumtwentytwo’
Time of harvest maturity	Very early	Very early
Fruit flesh color	Medium yellow- orange	Red, with yellow near stone
Fruit size	Large	Medium

The ‘AJOP20’ plum tree has been found to retain its
distinctive characteristics through successive asexually
propagated generations.

BRIEF DESCRIPTION OF THE PHOTOGRAPHS

The accompanying photographs were obtained in February 2021 at Shepparton East, Victoria, Australia.

FIG. 1 shows a branch, leaves and fruit on an 'AJOP20' plum tree;

FIG. 2 shows a sectioned fruit from an 'AJOP20' plum tree;

FIG. 3 shows leaves from an 'AJOP20' plum tree;

FIG. 4 shows 'AJOP20' plum trees; and,

FIG. 5 shows the trunk of an 'AJOP20' plum tree.

The colors shown in these photographs may vary with lighting conditions. Color characteristics of the claimed variety should therefore be determined with reference to the observations described herein, rather than from the photographs alone.

DETAILED BOTANICAL DESCRIPTION

The following detailed botanical description is based on observations of second-generation 'AJOP20' trees, grafted onto 'H29C' Myrobalan plum rootstock (not patented) in 2016 and grown on a trellis structure. Observations were recorded during the 2020-2021 growing season near Shepparton East, Victoria, Australia. 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.

Color descriptions are made with reference to The R.H.S. Colour Chart (Royal Horticultural Society, 5th ed.).

Tree:

Size.—Height approximately 4.0 m to top of flushing branches; spread approximately 1.1 m at top of fruit load position.

Vigor.—Moderate vigor.

Habit, shape.—Semi-spreading, rounded.

Density.—Moderately dense.

Productivity.—Moderate to heavy crop load, about 30 kg per tree.

Bearing.—Potential for biannual bearing.

Number of picks.—Single pick.

Chilling requirement.—400 to 500 hours with base temperature of 7° C.

Trunk:

Diameter.—6.5 cm at 30 cm above graft union.

Lenticels.—Dense, 6 per cm²; horizontal; greyed-orange 166C.

Texture.—Smooth overall, with longitudinal cracking.

Color.—Brown 200B.

Branches:

Terminal shoot length.—1.3 m.

Diameter at base of terminal shoot.—10.5 mm.

Diameter at end of terminal shoot.—3.9 mm.

Texture.—Smooth on first year wood, with increasing longitudinal peeling of cuticle; cracking exposes corky underlay as tree ages.

Lenticels on 2 year old wood.—6 to 10 per cm², arranged horizontally.

Attitude of one year old shoot.—Semi-erect to erect.

One year old shoot color.—Greyed-orange 165B.

One year old shoot lenticel color.—Greyed-orange 167C.

Color of new wood.—Grey-brown 199A.

Branch crotch angle.—30° to 40° at 1 m above graft union.

Fruiting branch color.—Brown 200C.

Fruiting branch lenticel color.—Greyed-orange 166C.

Leaves:

Arrangement.—Alternate.

Attitude in relation to shoot.—Horizontal.

Length.—11.0 cm.

Width.—6.0 cm.

Form.—Obovate.

Apex.—Acuminate.

Base.—Acute.

Margin.—Broad crenate.

Venation.—Upper surface reticulate; lower surface mildly reticulate.

Texture of upper surface.—Glabrous.

Color.—Upper surface — Yellow-green 146A.

Color.—Lower surface — Yellow-green 146C.

Color.—Vein upper surface — Yellow-green 146B.

Color.—Vein lower surface — Yellow-green 145A.

Petiole length.—19.7 mm.

Petiole diameter.—2.1 mm.

Petiole color.—Yellow-green 148C.

Petiole glands.—Up to 6 or more globose glands in alternate arrangement on upper portion of petiole.

Stipules.—Absent or non-conspicuous.

Fruit:

Maturity.—Very early, February 15 to 25 at Shepparton East.

Size.—Large.

Weight.—87 g.

Length.—53 mm.

Diameter at widest point.—53 mm.

Form, viewed from apex.—Round to ovate.

Form, viewed from suture side.—Occasionally slightly asymmetrical.

Form, viewed from side perpendicular to suture.—Occasionally slightly asymmetrical.

Suture depth.—2.3 mm.

Stalk cavity depth.—4.8 mm.

Stalk Cavity diameter.—6.0 mm.

Base shape.—Slightly flat on shoulders.

Apex shape.—Slightly pointed.

Stem length.—10.7 mm.

Stem diameter.—1.6 mm.

Fruit flesh:

Firmness.—Very firm, Average 2.5 kgf.

Texture.—Firm and dense.

Fibers.—Fine and not obvious.

Flavor.—Sweet with mild acidity.

Juiciness.—35% to 40% juice content.

Brix.—17.6%.

Flesh to stone ratio.—1:25.

Aroma.—Moderately strong.

Flesh color.—Yellow-orange 21B.

Cavity at tip end of stone.—Not noticeable.

Fruit skin:

Thickness.—Medium.

Texture.—Smooth, glabrous and shiny upon brushing.

Bloom wax.—Heavily present on fruit at harvest.

Ground color.—Yellow-orange 23A.

Overcolor.—Orange-red 34A.

Taste.—Balanced sweet with low acidity.
Lenticel quantity.—More than 70 per cm².
Lenticel color.—White to brown.

Stone:

Type.—Semi-freestone.
Length.—25 mm.
Width.—18 mm.
Color.—Greyed-orange 165D.
Shape.—Sub-globular in ventral view; Long elliptical in basal view; pointed pistil end.
Sides.—Profile view asymmetrical; Ventral view symmetrical.

Surface texture.—Small pits throughout, including on blade.

Ridges.—Blade on suture complete or partial.

Tendency to split.—No splitting observed.

Pest and disease resistance and susceptibility.—Typical of *Prunus salicina* varieties.

Use: Fresh consumption.

Shipping quality: Good for domestic market.

The invention claimed is:

1. A new and distinct plum tree named 'AJOP20' substantially as illustrated and described herein.

* * * * *



FIG. 1



FIG. 2

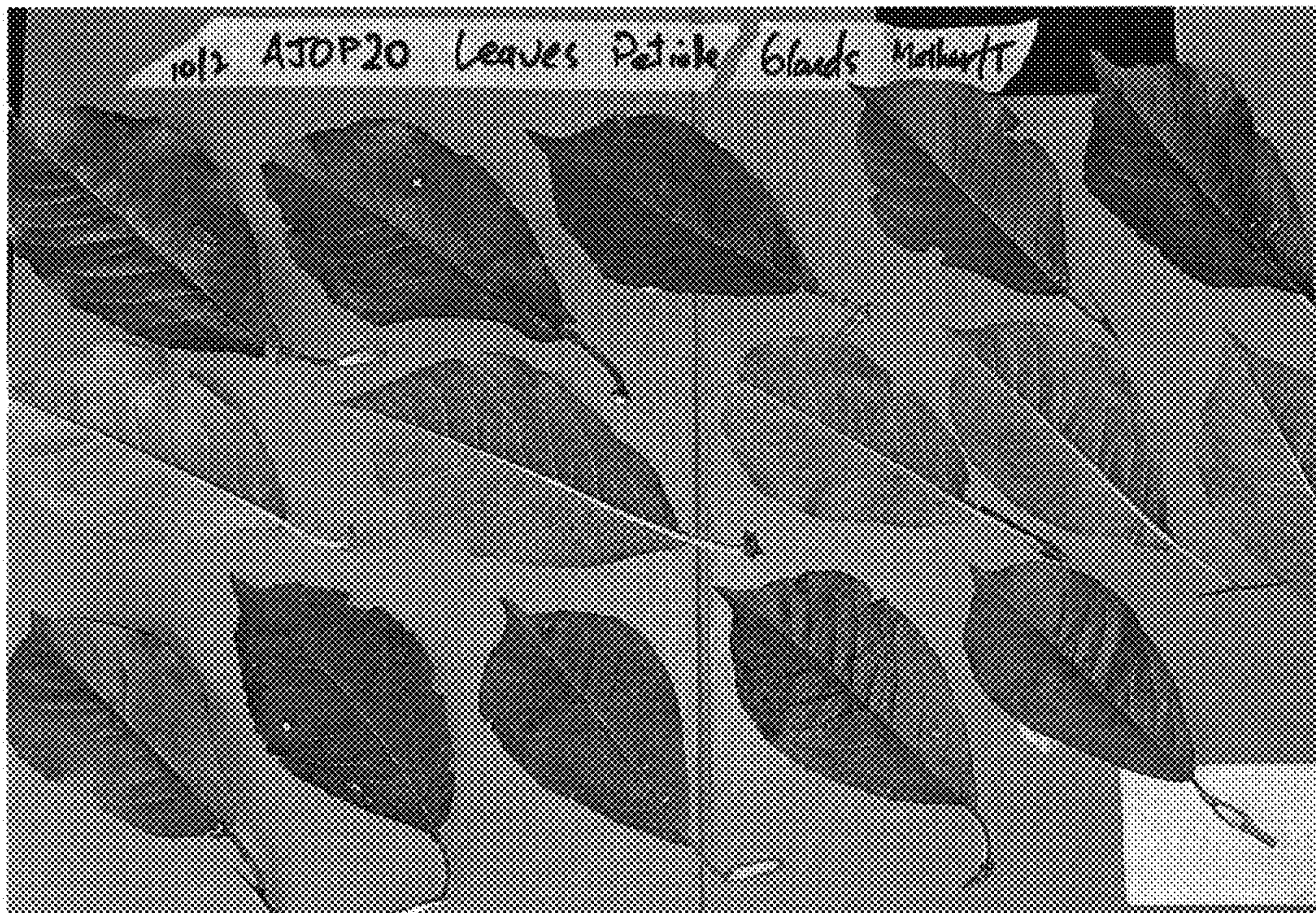


FIG. 3



FIG. 4



FIG. 5