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Wolfram

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(54) **PRUNUS TREE ROOTSTOCK NAMED**
'PIKU 3'

(51) **Int. Cl.⁷** **A01H 5/00**

(52) **U.S. Cl.** **Plt./183**

(50) Latin Name: *Prunus L.*
Varietal Denomination: **Piku 3**

(58) **Field of Search** **Plt./183**

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patent is extended or adjusted under 35
U.S.C. 154(b) by 16 days.

(57) **ABSTRACT**

A new and distinct *Prunus* rootstock compatible with other
Prunus varieties and producing trees with reduced growth,
adaptability to soil and high productivity.

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(65) **Prior Publication Data**

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4 Drawing Sheets

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Classification: *Prunus L.*
Varietal denomination: 'Piku 3'.

DESCRIPTION OF THE PLANT

BACKGROUND OF THE INVENTION

The present invention comprises a new and distinct cul-
tivar of hybrid *Prunus* known by the varietal name 'Piku 3'.
The new variety was discovered in 1972 in a selective
breeding program designed to produce growth reducing
rootstock for cherry trees in Dresden-Pillnitz, Germany as a
cross between an unnamed, unpatented variety of *Prunus*
pseudocerasus (female parent) and an unnamed, unpatented
Prunus hybrid of *Prunus canescens*×*Prunus incisa* (male
parent). The new variety differs from its parents in its growth
habit. The following characteristic distinguish the new vari-
ety from *Prunus avium* rootstock varieties:

5 The following detailed description sets forth the charac-
teristics of the new cultivar. The data which defines these
characteristics were collected by asexual reproductions via
green cuttings carried out in Dresden-Pillnitz, Germany. The
color designations were taken outdoors in Dresden-Pillnitz,
Germany. Rootstocks were 6 to 7 years old when described.
Color designations are noted with reference to standard
Prunus avium rootstock. The new variety is adaptable to soil
and is free of PNRV and PDV. As a rootstock, it can be
reproduced via softwood cuttings and tissue culture. The
new variety anchors well with some root sprouts, has good
compatibility with grafts and exhibits growth reduction.

1. Three-way hybrid.
2. Reduces growth in grafted varieties by 20%.
3. Minimally precocious crop.
4. Adaptable to soil.

The new variety was first asexually reproduced via green
cuttings in 1975 in Dresden-Pillnitz, Germany and subse-
quent propagation therein has confirmed that the character-
istics of the new variety are stable and are transmitted to
subsequent generations.

TREE

- 15 Size: Average height of 3.0 m and an average width of 1.90
m.
- Form: Upright, pyramidal.
- Trunk:
20 *Bark color*.—Brown.
Diameter.—8.1 cm, measured at a height of 40 cm.
- Branches:
Surface texture.—Pubescent.
Bark color.—200C.
25 *New growth color*.—Light-green red.
Mature growth color.—Dark.
Average crotch angle.—40–45°.
Internode length.—About 2.3 cm.
Lenticels.—Diameter: 0.10–0.20 cm. Color: 160A.
Amount per shoot: >100.
- 30 *Bud*.—Small.
- Leaves:
Length.—8.7 cm.
Width.—4.0 cm.
Surface texture.—Pubescent.
- 35 *Shape*.—Elliptical.
Color.—Upper Surface: 137A. Lower Surface: 146A.
- Petioles:
Length.—1.2 cm.
Thickness.—0.10 cm.

DESCRIPTION OF THE DRAWINGS

The accompanying photographic drawings illustrate the
new variety, with the color being as nearly true as is possible
with color illustrations of this type.

- FIG. 1 shows the tree of the new variety;
- FIG. 2 shows a branch with leaves;
- FIG. 3 shows a branch with flower buds; and
- FIG. 4 shows a branch with opened flowers.

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Leaf glands:

Quantity.—1-2.

Position.—Under leaf end.

Size.—0.10-0.15 cm.

Color.—Green.

Stipules:

Quantity.—Rare.

Length.—0.6-1.5 cm.

Color.—Green.

Flowers:

Diameter.—2.70 cm.

Color.—Upper Surface: N155A. Lower Surface:
N155A.

Bud color.—69C.

Number.—Many.

Petals.—Length: Approximately 1.2 cm. Width:
Approximately 0.6 cm. Quantity per flower: 5.

Sexual characteristics.—Diploid.

Stamen number.—>10.

Pistil number.—1.

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FRUIT

Maturity date/location: Mid-season in Dresden, Pillnitz.

Size: Small; low crop yield.

Weight: 1-2 grams.

Axial diameter: 1-2 cm.

Fruit stone:

Length.—Approximately 0.7 cm.

Diameter.—Approximately 0.4 cm.

Skin: Thin, soft, colored 183A/183B.

Flesh color: 187A.

GENERAL

Weather hardiness: Moderately susceptible to winter frost.

Disease resistance: Tolerant to Cytospora.

I claim:

1. A new and distinct variety of *Prunus* rootstock tree
named 'Piku 3' substantially as shown and described.

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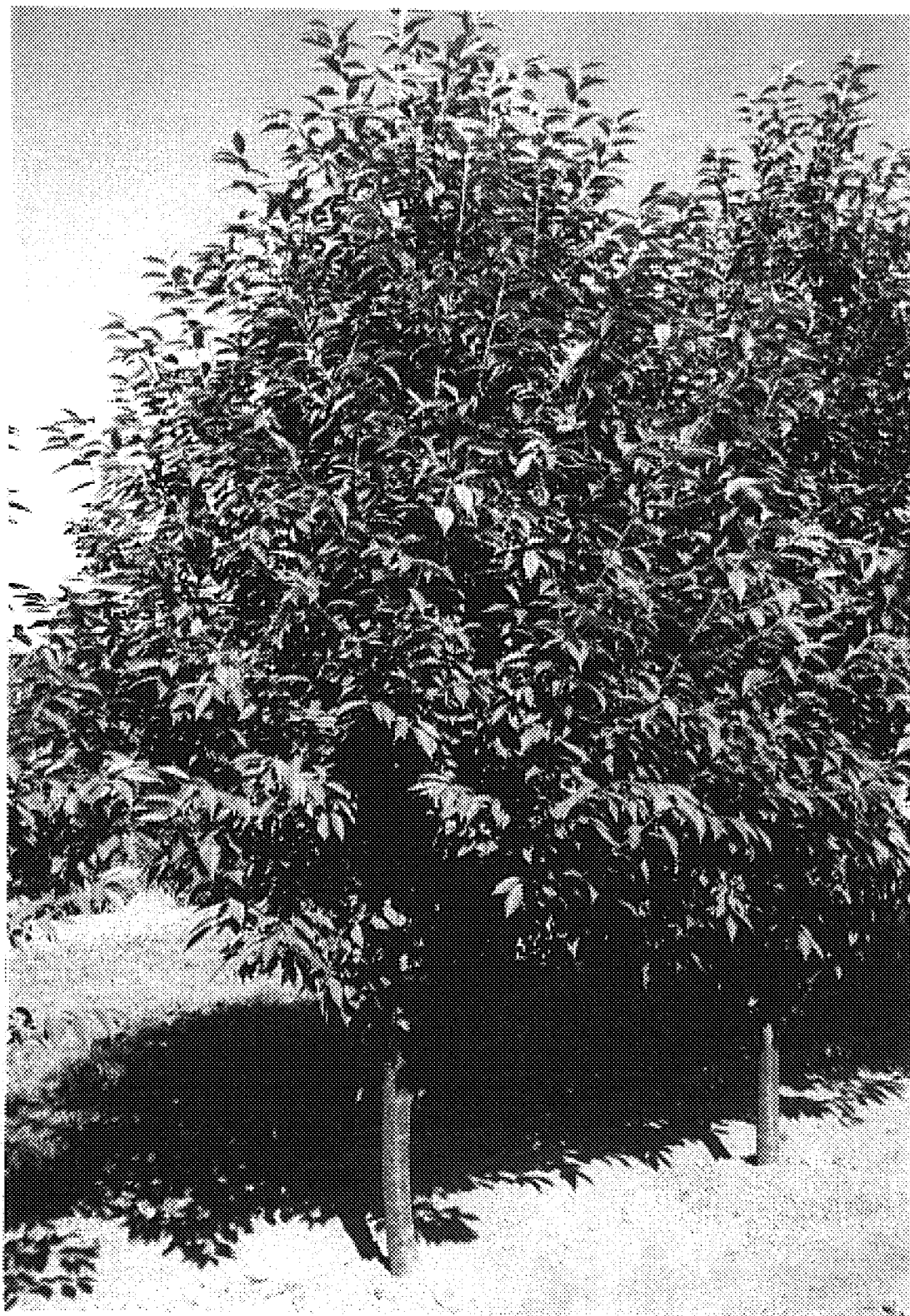


Fig. 1



Fig. 2



Fig. 3



Fig. 4