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

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(54) **AVOCADO TREE NAMED 'MALUMA'**

(50) Latin Name: *Persea americana* Mill

Varietal Denomination: **Maluma**

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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.: **12/290,341**

(22) Filed: **Oct. 28, 2008**

(65) **Prior Publication Data**

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(51) **Int. Cl.**  
**A01H 5/00** (2006.01)

(52) **U.S. Cl.** ..... **Plt./200**

(58) **Field of Classification Search** ..... Plt./200  
See application file for complete search history.

(56) **References Cited**

OTHER PUBLICATIONS

Upov Plant Variety Database 2009/03. 2 pages.\*

\* cited by examiner

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(57) **ABSTRACT**

'Maluma' avocado (*Persea americana* Mill.) is notable for its  
early bearing, precociousness and high yield. The fruit of  
'Maluma' is larger and slightly more pyriform than 'Hass', and  
is less prone to skin blemishes.

**4 Drawing Sheets**

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Latin name: *Persea americana* Mill.

Variety denomination: 'Maluma'.

**BACKGROUND OF THE VARIETY**

'Maluma' is a new and distinct variety of avocado tree  
*Persea americana* Mill. This new variety originated as a  
chance seedling discovered by the inventor in a cultivated  
avocado orchard. Although the parentage of the new variety is  
not known, it appears to be a 'Hass' (U.S. Plant Patent No.  
139) type avocado, related to Guatemalan avocado varieties,  
with some Mexican avocado genetics. 'Maluma' was first  
observed at a farm located at Levubu, Limpopo Province,  
Republic of South Africa, and was selected because of its  
large, early fruit as compared to the surrounding trees.  
'Maluma' was first asexually reproduced at Tzaneen, Lim-  
popo Province, in the late 1990s by grafting onto clonal 'Duke  
7' (not patented) rootstock and has since been observed to  
remain true to type over successive asexually propagated  
generations.

**BRIEF DESCRIPTION OF THE VARIETY**

'Maluma' was first noted and selected for its early bearing,  
precociousness and high yield. The fruit of 'Maluma' is larger  
and slightly more pyriform than 'Hass', and is less prone to  
skin blemishes.

**BRIEF DESCRIPTION OF THE PHOTOGRAPHS**

FIG. 1 shows a 'Maluma' tree;  
FIG. 2 shows the leaves and inflorescence of 'Maluma';  
FIG. 3 shows the fruit and leaves of 'Maluma'; and  
FIG. 4 shows a sectioned fruit of 'Maluma'.

**DETAILED BOTANICAL DESCRIPTION OF THE  
VARIETY**

The following detailed botanical description is based on  
observations made during the 2008 growing season at Lim-  
popo, Republic of South Africa of seven year old 'Maluma'

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trees grown on 'Duke 7' rootstock. All colors are described  
according to The Royal Horticultural Society Colour Chart. It  
should be understood that the characteristics described will  
vary somewhat depending upon cultural practices and cli-  
matic conditions, and will vary with location and season.  
Quantified measurements are expressed as an average of mea-  
surements 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:

*Height*.—5.5 m.

*Spread*.—2.5 m at base.

*Vigor*.—25 to 30 cm per year.

*Branching habit*.—Axial-irregular.

*Density*.—Open-intermediate.

*Habit*.—Upright.

*Hardiness*.—Tolerant to light frost, high wind tolerance,  
tolerant to lenticel damage.

*Production*.—Productive, >20,000 kg per hectare per  
year.

*Bearing*.—Precocious, annual.

*Trunk*.—Circumference 55 cm at 30 cm from ground.

*Bark texture*.—Grooves and ridges.

*Bark color*.—Greyed-green 194B.

*Trunk lenticels*.—Color greyed-green 194A, size 3 mm  
by 6 mm, density 150 per 100 cm<sup>2</sup>.

Branch:

*Primary branch diameter*.—80 mm.

*Primary branch length*.—2.5 m.

*Crotch angle*.—Obtuse (>90°).

*Texture*.—Light grooves and ridges.

*Color, most recent flush*.—Green 134B.

*Color, previous flush*.—Green 134A.

*Lenticels*.—Color green 135A, size 0.5 by 2 mm, density  
30 per cm<sup>2</sup>.

Leaves:

*Length*.—20 to 25 cm.

*Width*.—5–6 cm.

*Leaf shape*.—Oblanceolate.

*Tip shape*.—Acute.

*Base shape*.—Cuneate.

*Margin*.—Entire.

*Color*.—Upper surface green 135B, lower surface green 135D.

*Venation pattern*.—Secondary veins alternate, tertiary veins inconspicuous.

*Midvein size at base*.—Length 15 to 20 cm, diameter 2 mm, conspicuous.

*Midvein color*.—Upper surface yellow-green 144C, lower surface yellow-green 144D.

*Petiole*.—Length 4 to 6 cm, diameter 3 to 4 mm at axial end.

*Petiole color*.—Upper surface yellow-green 144C, lower surface 144D.

*Leaf arrangement*.—Alternate.

*Anthocyanin coloration*.—Present.

#### Flowers:

*Flower type*.—A type.

*Bud*.—Length 5 to 6 mm; width 4 to 5 mm; color yellow-orange 21C.

*Pedicel length*.—6 to 8 mm. Both determinate and indeterminate inflorescence, avg. 5 to 10 peduncles per inflorescence (panicle) with 10 to 20 flowers per peduncle.

*Peduncle length*.—6 to 8 cm. Flower abundance intermediate; Flower consists of pistil with stigma, style (straight) and ovary, 9 stamens (3 per whorl), 3 stami-

nodes, nectaries (2 per inner stamen whorl), 3 petals, 3 sepals and a pedicel. Bloom date range mid-July to mid-September.

Fruit: Maturity date range early April to mid-June.

*Picking dates*.—First picking, week 12 (22% dry matter), last picking, week 24 (35% dry matter).

*Fruit size*.—Apical diameter 70 mm, axial diameter 35 mm, weight range 150 g to 400 g, with 250 g peak.

*Fruit shape*.—Pyriform, pedicel asymmetrical.

*Stem*.—Length 20 mm, diameter 14 mm, color yellow-green 144D.

*Skin*.—Unripe color green 135B, ripe color purple 79A, thickness 2 mm, texture leathery, semi-rough and pebbly, tenacity intermediate.

*Flesh*.—Color yellow-green 154C, texture when ripe smooth and buttery.

*Seed*.—Size 38 mm by 39 mm, weight 32 g, shape obovate with flattened base, skin color yellow 11C, cotyledon color yellow-green 153C.

*Eating quality*.—Excellent flavor and texture.

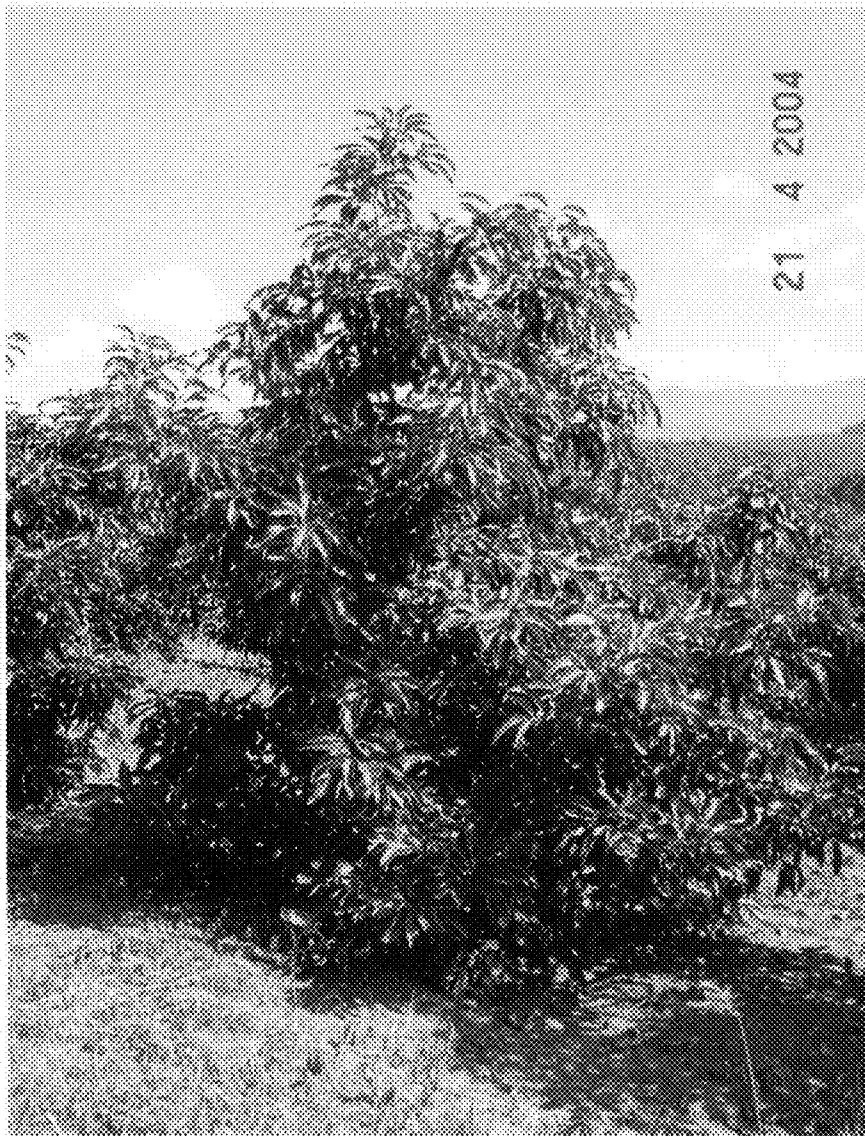
Storage characteristics: Acceptable.

Shipping characteristics: Excellent.

I claim:

1. A new and distinct avocado tree substantially as described and illustrated herein.

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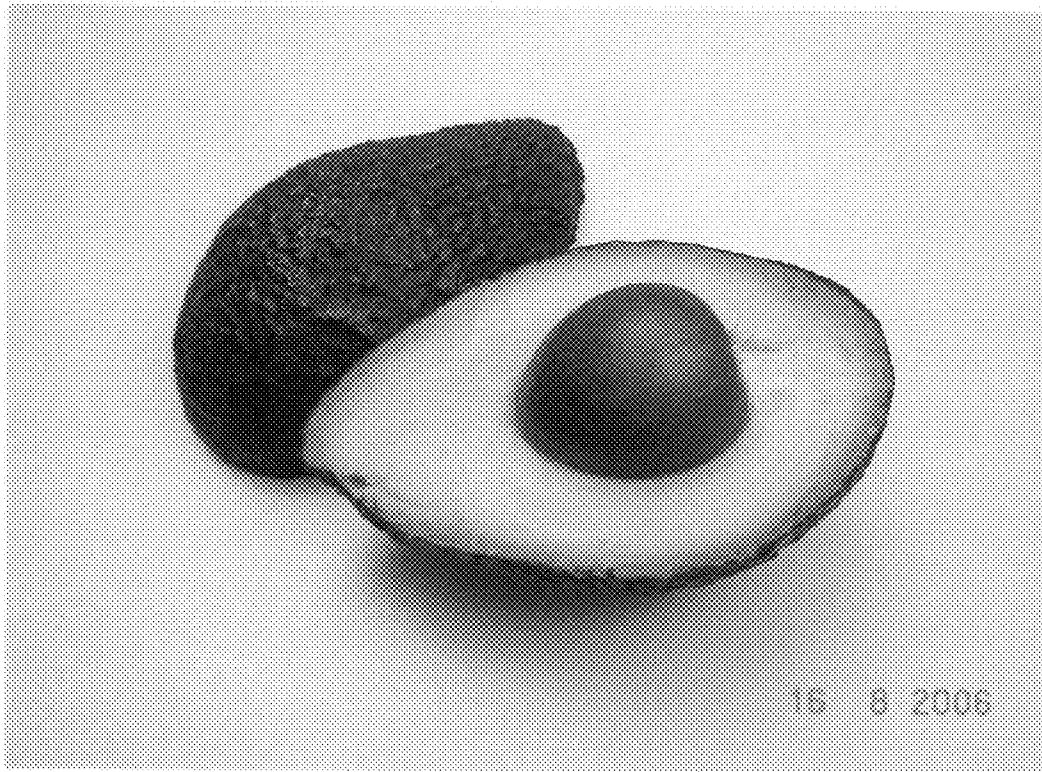
***FIG. 1***



***FIG. 2***



***FIG. 3***



***FIG. 4***