



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

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(54) ***EUCALYPTUS* TREE NAMED ‘G4’**

(50) Latin Name: *Eucalyptus grandis*
Varietal Denomination: **G4**

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patent is extended or adjusted under 35
U.S.C. 154(b) by 0 days.

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(58) **Field of Classification Search** **Plt./216**
See application file for complete search history.

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(57) **ABSTRACT**

A new *Eucalyptus grandis* tree particularly distinguished by
having a fast growth rate, excellent frost tolerance, and good
coppicing properties, is disclosed.

5 Drawing Sheets

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**ACKNOWLEDGEMENT OF FEDERAL
RESEARCH SUPPORT**

The present invention was supported in part by funds from
the U.S. Government. The U.S. Government therefore may
have certain rights in the invention.

Genus and species: *Eucalyptus grandis*.
Variety denomination: ‘G4’.

BACKGROUND OF THE NEW PLANT

The present invention comprises a new and distinct variety
of *Eucalyptus*, botanically known as *Eucalyptus grandis*, and
hereinafter referred to by the variety name ‘G4’. It is charac-
terized by having a fast growth rate, excellent frost tolerance,
and good coppicing properties when grown under normal
forestry practices in central, southern, and possibly northern
Florida.

‘G4’ originated from a group of 31,725 seedlings of *E.*
grandis. ‘G4’ is the result of open-pollination in a third-
generation seedling seed orchard at Palmdale, Fla. The
female (seed) parent of ‘G4’ is the proprietary *E. grandis*
seedling selection with the identification number ‘1480’ (un-
patented) characterized by its fast growth and average frost
tolerance. The male (pollen) parent of ‘G4’ is unknown. The
maternal parent (1480) originated from control-pollination.
The female (seed) parent of ‘1480’ is the proprietary *E. gran-*
dis seedling selection with the identification number ‘1179’
(unpatented) characterized by its good growth and acceptable
frost tolerance. The male (pollen) parent of ‘1480’ is the
proprietary *E. grandis* seedling selection with the identifica-
tion number ‘1013’ (unpatented) also characterized by its
good growth and acceptable frost tolerance. ‘G4’ was selected
as a single clone from the progeny of the above stated open-
pollination during February 1982.

‘G4’ was first asexually propagated in June of 2007 in Lake
Alfred, Fla. through cuttings and in vitro propagation. Asexu-
ally propagated trees of ‘G4’ have remained true to the origi-
nal selected tree, and all characteristics of the tree have been
transmitted and retained through three successive asexual
vegetative generations.

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Plant Breeder’s Rights for this cultivar have not been
applied for. ‘G4’ has not been made publicly available more
than one year prior to the filing of this application.

DESCRIPTION OF THE PHOTOGRAPH(S)

This new *eucalyptus* tree is illustrated by the accompany-
ing photographs which show the tree’s form and foliage. The
colors shown are as true as can be reasonably obtained by
conventional photographic procedures. The photographs are
of a tree approximately 13-years old.

FIG. 1 shows the overall plant habit including foliage.

FIG. 2 shows a close-up of over-mature leaves and a few
seeds.

FIG. 3 shows a close-up of the trunk.

FIG. 4 shows the branches at the top of the tree.

FIG. 5 shows a close-up of the mature seeds.

FIG. 6 shows a close-up of the coppice.

DESCRIPTION OF THE NEW CULTIVAR

The following detailed description sets forth the distinctive
characteristics of ‘G4’. The present botanical description is
that of 13-year-old trees growing near Mulberry, Fla. The
colors (except those in common terms) are described from
R.H.S. Colour Chart published by The Royal Horticultural
Society in London (second edition), in association with the
Flower Council of Holland.

DETAILED BOTANICAL DESCRIPTION

Classification:

Botanical.—*Eucalyptus grandis* var. ‘G4’.

Common name.—*Eucalyptus*.

Parentage:

Female parent.—‘1480’ (unpatented).

Male parent.—Unknown.

Tree:

Size.—Height: About 16.0 m. Spread: About 3.0 m.

Vigor.—Good.

Density.—Open.

Form (overall shape of tree).—Narrowly upright with somewhat drooping branches.
Growth habit.—Evergreen.

Trunk and branches:
Trunk texture.—Smoother at top.
Trunk bark color.—Mottled grey, pink.
Branch texture.—Smooth.
Branch color.—Gray-reddish.

Leaves:
Size (lamina average).—Length: 10.0 cm to 15.0 cm. 10
Width: 2.0 cm.
Type.—Simple, petiolate, alternate, persistent.
Shape.—Narrow lanceolate, slightly sickle shaped.
Apex.—Acuminate.
Base.—Typically acute, can be slightly unequilateral, 15
slightly offcenter midrib.
Margin.—Smooth, wavy.
Surface texture (both surfaces).—Glabrous.
Color.—Upper surface: Green. Lower surface: Paler green.
Petiole.—Shape: Slightly flattened with a groove at top. 20
Length: 1.0 cm to 2.0 cm. Width: 0.1 cm to 0.2 cm.
Color: Light green and pink. Texture: Smooth.

Flowers:
Type.—Clustered. 25
Blossom period.—Mid-September to late-October.
Fragrance.—Mild.

Reproductive organs:
Stamen number.—Many.
Anther color.—White. 30

Anther filament length.—About 1.0 cm.
Pistil number.—1.
Pistil length.—Less than 1.0 cm.

Fruit/seed (if produced):
Size.—Length: 0.5 cm to 0.7 cm. Width: 0.5 cm to 0.8 cm.
Number.—3 to 7 capsules per cluster.
Shape.—Pyriform.
Texture.—Smooth, woody.
Apex.—Cuspidate.
Base.—Attenuate.
Color.—Immature: Green. Mature: Gray brown.
Stalk.—Short.

Resistance/tolerance to diseases/pests: No unusual susceptibilities noted.

COMPARISON WITH PARENTAL AND KNOWN VARIETIES

‘G4’ differs from the female parent ‘1480’ (unpatented) by having faster growth and better frost tolerance than ‘1480’. In addition, ‘G4’ had good coppicing properties.
There are no commercial varieties known to the inventor which can be compared with ‘G4’.

I claim:
1. A new and distinct variety of *Eucalyptus grandis* tree as shown and described herein.

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Fig. 1



Fig. 2



Fig. 3



Fig. 4



Fig. 5



Fig. 6