



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

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(54) **METASEQUOIA GLYPTOSTROBOIDES PLANT NAMED 'SHIRRMANN'S NORDLICHT'**

(50) Latin Name: *Metasequoia glyptostroboides*
Varietal Denomination: **Shirrmann's Nordlicht**

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patent is extended or adjusted under 35
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(58) **Field of Classification Search** **Plt./213**
See application file for complete search history.

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(57) **ABSTRACT**

A new and distinct cultivar of *Metasequoia* plant named
'Shirrmann's Nordlicht', characterized by its medium green-
colored leaves occasionally with greenish-white axial varie-
gation, globe-shaped compact growth habit, and good garden
performance, is disclosed.

2 Drawing Sheets

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Latin name of genus and species of plant claimed: *Metase-
quoia glyptostroboides*.

Variety denomination: 'Shirrmann's Nordlicht'.

BACKGROUND OF THE INVENTION

The present invention relates to a new and distinct cultivar
of *Metasequoia* plant botanically known as *Metasequoia*
glyptostroboides and hereinafter referred to by the cultivar
name 'Shirrmann's Nordlicht'.

The new *Metasequoia* cultivar is a naturally-occurring
sport of 'White Spot', not patented, characterized by green
leaves marked with subtle creamy-white variegation and a
narrow, conical tree-like habit. The new cultivar was discov-
ered as a branch sport and selected in 2004 in an outdoor
nursery environment at Deurne, Germany.

Asexual reproduction of the new *Metasequoia* by grafting
in a controlled environment in Deurne, Germany since 2006,
has shown that the unique features of this new *Metasequoia*
are stable and reproduced true to type in successive genera-
tions.

SUMMARY OF THE INVENTION

The following characteristics of the new cultivar have been
repeatedly observed and can be used to distinguish 'Shir-
rmann's Nordlicht' as a new and distinct cultivar of *Metase-
quoia* plant:

1. Medium green-colored leaves occasionally with green-
ish-white axial variegation;
2. Globe-shaped compact growth habit; and
3. Good garden performance.

Of the many commercially available *Metasequoia* culti-
vars, the most similar in comparison to the new cultivar is the
cultivar 'Mattheai', not patented. However, in comparison,
plants of the new cultivar differ from 'Mattheai' in leaf color
and plant habit. The new cultivar has variegated foliage and a
more compact growth habit.

BRIEF DESCRIPTION OF THE PHOTOGRAPHS

The accompanying photographs show, as nearly true as it is
reasonably possible to make the same in color illustrations of

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this type, typical foliage characteristics of the new cultivar.
Colors in the photographs differ slightly from the color values
cited in the detailed description, which accurately describes
the colors of 'Shirrmann's Nordlicht'. The plants were grown
outdoors in 2.5 liter containers for approximately 3 years in
Deurne, The Netherlands.

FIG. 1 is a side perspective view of typical plants of 'Shir-
rmann's Nordlicht' grown in an outdoor nursery.

FIG. 1 is a close-up view of typical foliage of 'Shirrmann's
Nordlicht'.

DETAILED BOTANICAL DESCRIPTION

The new cultivar has not been observed under all possible
environmental conditions to date. Accordingly, it is possible
that the phenotype may vary somewhat with variations in the
environment, such as temperature, light intensity, and day
length, without, however, any variance in genotype.

The chart used in the identification of colors described
herein is The R.H.S. Colour Chart of The Royal Horticultural
Society, London, England, 2001 edition, except where gener-
al color terms of ordinary significance are used. The color
values were determined in August 2008 under natural light
conditions in Deurne, The Netherlands when day tempera-
tures ranged from 12° C. to 32° C. (53° F. to 90° F.) and night
temperatures ranged from 6° C. to 18° C. (43° F. to 64° F.).

Plants used in the following description were grown in
Deurne, The Netherlands, in an outdoor nursery in 3.5 liter
containers and under conditions which closely approximate
commercial production conditions. The plants were grown
for approximately 3 years when the description was taken.
Measurements and numerical values represent averages of
typical plants.

Botanical classification: *Metasequoia glyptostroboides* culti-
var Shirrmann's Nordlicht.

Parentage: Naturally-occurring branch sport of *Metasequoia*
glyptostroboides 'White Spot', not patented.

Propagation:
Type.—Graft.

Plant description:

Growth habit and general appearance.—Globular, deciduous conifer perennial shrub having low to moderate vigor, growing an average of 10.0 cm per season.

Crop time.—Approximately 10 months from grafting to finish in an 11 cm container. 5

Size.—Plant height (from graft union): Approximately 25.0 cm. Plant width (spread): Approximately 29.4 cm.

Trunk diameter.—Midpoint above the soil line: approximately 1.6 cm. Texture: smooth. Color of trunk: 165A to 200D. 10

Branches.—Freely branching. Quantity: Approximately 27. Shape: Rounded. Appearance: Dull, covered with scale-like leaves, opposite in arrangement. Strength: Moderately strong. Length: Approximately 9.9 cm. Diameter: Approximately 2.0 mm. Internode length: Approximately 5.0 mm. Texture: Glabrous. Color of young stem: N170B to N170C. Color of mature stem: 175B to 175C. 15

Foliage description:

General description.—Type: Approximately 50% compound and 50% simple. Arrangement: Opposite. Quantity per lateral branch: Approximately 40. Texture of upper and lower surfaces: Smooth, glabrous. Venation pattern: Parallel. Color of upper surface of young foliage: 138B to 138C, slightly overlaid with N170B to N170C at the tips. Color of lower surface of young foliage: 138D. Color of upper surface of mature foliage: 138B occasionally with an axial var- 20

iegation of 157A to 157B. Color of lower surface of mature foliage: 138D. Color of upper and lower surfaces of venation: Indistinguishable from leaf color.

Leaves.—Shape: Paripinnate, with an overall oblong shape. Appearance: Dull. Apex: Acute. Base: Attenuate. Margin: Entire. Length: Approximately 7.2 cm. Width: Approximately 1.7 cm. Leaflet shape: Ligulate. Leaflet apex: Acute. Leaflet base: Sessile. Leaflet margin: Entire. Leaflet length: Approximately 1.9 cm. Leaflet width: 1.8 mm.

Petiole.—Length: Approximately 5.0 mm. Diameter: Approximately 1.0 mm. Texture: Smooth, glabrous. Color: 138C.

Cone and seed production: Not available, cone and seed production have not been observed.

Disease and pest resistance: Plants of the new *Metasequoia* have not been noted to be resistant to pathogens and pests common to *Metasequoia*.

Weather tolerance: Plants of the new *Metasequoia* have been observed to be highly tolerant to rain and wind. Plants of the new *Metasequoia* have been observed to tolerate high temperatures of about 35° C. (95° F.) and to be hardy to a least USDA Zone 5.

What is claimed is:

1. A new and distinct cultivar of *Metasequoia* plant named ‘Shirrmann’s Nordlicht’, substantially as herein shown and described.

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