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(54) *METASEQUOIA GLYPTOSTROBOIDES* PLANT
NAMED 'GOLDEN DAWN'

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patent is extended or adjusted under 35
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(58) **Field of Search** **Plt./213**

(56) **References Cited**

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(57) **ABSTRACT**

A new and distinct cultivar of *Metasequoia glyptostroboides*
plant characterized by the globose shape, slow rate of
growth, golden yellow color and stable dwarf characteristic.

2 Drawing Sheets

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BACKGROUND

The present invention relates to a new and distinct cultivar
of *Metasequoia glyptostroboides*, from the Taxodiaceae
family, the novel characteristics of which reside particularly
in the short, globose shape of the tree, slow rate of growth
and golden yellow color.

The new cultivar, 'Golden Dawn', was discovered by
Kenneth W. Murray and is the result of a seedling mutation
from seeds of the species that were sown in 1986. The
parentage of the seedling leading to 'Golden Dawn' is
unknown. 'Golden Dawn' is the result of a seedling mutation
that just happened to result in a yellow-leaved, slow growing
plant. The mutation occurred naturally and was not induced.
This plant was picked out of a large group of seedling
because of its slow growth rate and golden yellow color of
the leaves. It originated and was cultivated in Wilmington,
Del. Thereafter, 'Golden Dawn' was successfully asexually
reproduced in Kennedyville, Md. by Mr. Murray, by side
grafting hardwood scions from 'Golden Dawn' onto an
understock of an understock of an unknown cultivar of
Metasequoia glyptostroboides. Such asexual reproduction
resulted in one hundred plants over a two year period, which
have consistently displayed the short, bushy tree shape and
dwarf characteristic after the first year of development.
Propagations in 1997, included 25 plants in three gallon
containers and 15 plants in the field. The propagations that
were performed in 1998 included 60 plants which are in two
gallon containers.

An interesting characteristic of the new cultivar, 'Golden
Dawn', is its branching habit which is more dense than that
of the species. The overall growth rate of 'Golden Dawn' is
much slower than typical plants of the species. For example,
the single straight trunk grows only 6" in height per year,
distinguishing 'Golden Dawn' from known cultivars.

Other distinctive characteristics of the new cultivar are
exemplified in the accompanying illustrations, taken during
the summer of 1996 at the inventor's residence, wherein:

FIG. 1 is a photograph showing an adult tree of the new
variety with a person standing next to the tree for size
reference. The tree of the new variety in this figure is the one
that resulted from the seed originally sown in 1986;

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FIG. 2 is a close up photograph, showing the nature of the
branches with adult leaves of a ten year old tree;

FIG. 3 is a close up of the leaves showing their golden
color and opposite arrangement on the stem;

FIG. 4 shows the typical shape at the adult stage of
development and depicts the golden yellow color, which is
apparent in Spring, as accurately as is reasonably possible.

TECHNICAL DESCRIPTION

The following is a description in some detail of a ten
year-old plant of the new cultivar of *Metasequoia*
glyptostroboides, 'Golden Dawn', as grown in ambient
outdoor conditions in Wilmington, Del.

Family: Taxodiaceae

Tree: Short, bushy globose, with a single straight trunk and
branchlets of two kinds, persistent and deciduous. The
persistent is bright reddish brown when young, shallowly
ridged, carrying the deciduous branchlets, numerous veg-
etative buds and a few leaves. The green deciduous
branchlets are up to about 3" long, usually opposite in
arrangement, more or less horizontal, ribbed with long
decurrent bases of up to 55-65 or more leaves.

Parentage: *Metasequoia glyptostroboides* (common type).
The new cultivar, 'Golden Dawn', was reproduced by
grafting hardwood scions of 'Golden Dawn' onto the
understock of *Metasequoia glyptostroboides*. The muta-
tion was not artificially induced, and the cause of the
mutation is unknown. The precise parentage of the
mutated seedling (from which the new cultivar was
cultivated) is also unknown.

Foliage: Leaves are deciduous, opposite in arrangement,
linear, flattened, straight or slightly curved, arranged
comb-like, obtusely pointed, tapering abruptly towards
the juncture with the branchlet. They are 5/16" and 1/16"
broad on a ten-year-old tree. Buds are non-resinous
(opposite), usually in pairs at the base of deciduous
branchlets but sometimes solitary between the branchlets;
ovoid in shape, about 1/16" long and 1/32" wide, scales light
reddish or yellowish brown with a linear keel, appearing
stalked.

Location where the new cultivar was discovered and sexually reproduced: 'Golden Dawn' was first discovered in Wilmington, Del., and asexually reproduced, in Kennedyville, Md., by Kenneth W. Murray.

Color: The leaf color is predominantly golden yellow, (or Royal Horticultural Society Colour Chart #154-C). Due to variations in the intensity of sunlight, the color may vary up to 10-D. The brighter the sunlight, the lighter the color will be. Also, the older the leaves, the lighter their color will be due to their longer exposure to sunlight. In the Fall the leaves change to a warm brown color similar to R.H.S. 173-C. Both the upper and lower surfaces of the leaves display the same color characteristics. The bark is warm russet brown (R.H.S. 174-A), when young, becoming darker, grayish (R.H.S. 201-A), fissured, and then exfoliating in long, narrow strips with age. The branchlets are a red-brown (R.H.S. 173-A).

Reproductive

Organs: To date, there are no observable cones, or seeds.
Size: 5 feet in 10 years with a 4 foot spread.

Rate: Growth rate is slow, approximately 6 inches per year.

Culture: Transplants easily, performs best in moist, deep, well-drained, slightly acid soils, partial shade in afternoon. Seldom requires pruning due to small globose habit.

Hardiness: No known serious problems in Zone 7 and no anticipated problems in Zones 4 to 8, as evidenced in the typical species. However, 'Golden Dawn' has not been tested in Zones 4 to 8. There are no known problems relative to diseases and insects with 'Golden Dawn'.

The principal novel characteristics of the new cultivar, 'Golden Dawn,' as herein shown and described, are its globose shape, slow growth and golden yellow color. The unique combination of these distinctions and its ability to propagate make 'Golden Dawn' ideal for small landscapes.

I claim:

1. A new and distinct *Metasequoia glyptostroboides* plant, 'Golden Dawn', as described and illustrated.

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FIG. 1



FIG. 2



FIG. 3



FIG. 4