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(12) **United States Plant Patent**  
**de Jong**

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(54) **THUJA PLANT NAMED 'DE RAKT'**

(58) **Field of Classification Search** ..... Plt./213

See application file for complete search history.

(50) Latin Name: *Thuja plicata*  
Varietal Denomination: **De Rakt**

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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.

(57) **ABSTRACT**

A new cultivar of *Thuja plicata* named 'De Rakt' character-  
ized by its bright and light green foliage with good color  
retention throughout the winter, its fine textured foliage, and  
its narrow columnar growth habit.

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

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**2 Drawing Sheets**

**1**

**2**

Botanical classification: *Thuja plicata*.  
Varietal denomination: 'De Rakt'.

shiny green foliage, a broader habit, and also loses its sum-  
mer foliage color in winter.

**BACKGROUND OF THE INVENTION**

**BRIEF DESCRIPTION OF THE DRAWING**

The present invention relates to a new and distinct cultivar  
of *Thuja plicata* and will be referred to hereafter by its culti-  
var name, 'De Rakt'. 'De Rakt' represents a new western red  
cedar, an evergreen tree grown for landscape use.

5 The plant and plant parts depicted in the accompanied  
photographs illustrate the unique characteristics of 'De  
Rakt'. The photographs were taken of a six year-old plant as  
grown outdoors in a 15-liter container in Uden, The Nether-  
lands.

The inventor discovered this new *Thuja* (un-patented) as a  
naturally occurring branch mutation of *Thuja plicata* 'Gelder-  
land' (not patented) in May of 1989 in his garden in Uden,  
The Netherlands by the inventor.

10 FIG. 1 provides an overall view of the habit and foliage  
texture of 'De Rakt'.

FIG. 2 provides a close-up view of the foliage.

Asexual reproduction of the new cultivar was first accom-  
plished by hardwood cuttings in Uden, the Netherlands in  
summer of 1999 by the inventor. Further generations of cut-  
tings were taken in following years and trials have deter-  
mined that the characteristics of this cultivar are stable and  
are reproduced true to type in successive generations.

15 The colors in the photographs are as close as possible with  
the photographic and printing technology utilized. The color  
values cited in the detailed botanical description accurately  
describe the colors of the new *Thuja*.

**DETAILED BOTANICAL DESCRIPTION**

**SUMMARY OF THE INVENTION**

The following traits have been repeatedly observed and  
represent the characteristics of the new cultivar. These  
attributes in combination distinguish 'De Rakt', as unique  
from all other selections and forms of *Thuja plicata* known  
to the inventor.

20 The following is a detailed description of the new cultivar  
as taken from six year-old plants as grown in 15-liter con-  
tainers in Uden, The Netherlands. The plants were grown  
under average day temperature of 6° to 15° C. and average  
night temperatures of -2 to 8° C. The phenotype of the new  
cultivar may vary with variations in environmental, climatic,  
and cultural conditions, as it has not been tested under all  
possible environmental conditions. The color determination  
is in accordance with the 2001 R.H.S. Colour Chart of the  
Royal Horticultural Society, London, England, except where  
general color terms of ordinary dictionary significance are  
used.

- 1. 'De Rakt' exhibits bright light green foliage with good  
color retention throughout the winter.
- 2. 'De Rakt' exhibits fine textured foliage.
- 3. 'De Rakt' exhibits a narrow columnar growth habit.

General description:

'De Rakt' differs from its parent plant, 'Gelderland', in  
having brighter and lighter green foliage that is finer in  
texture, in having a more narrow plant habit, and in having  
foliage that retains its foliage color throughout winter; the  
foliage color of 'Gelderland' that fades to a brown color in  
winter. 'De Rakt' can be compared to other cultivars of  
*Thuja plicata* that have a slender form. 'Fastigiata' (not  
patented) differs in having darker green foliage that turns a  
muddy brown in winter and 'Atrovirens' (not patented) has

*Plant type*.—Coniferous, evergreen, tree for landscape  
use.

*Growth habit*.—Narrow columnar with fine foliage.

*Height and spread*.—(6 year-old plants) Average of 181  
cm in height and 63 cm in width.

*Cone development*.—Neither male nor female cones  
have been observed.

*Cold hardiness*.—U.S.D.A. Zone 5.

*Diseases and pests.*—No susceptibility or resistance to diseases or pests known to affect *Thuja* has been observed.

*Root description.*—Fibrous.

*Growth rate.*—Moderate.

Stem description:

*Shape.*—Round to oval.

*Stem size.*—Main branch; average of 1.6 cm in diameter and 180 cm in length, lateral branches; average of 3 mm in diameter and 21.3 cm in length.

*Stem surface.*—Young branches are glabrous and knobby with scales, mature bark is thin, fibrous, fissured into connecting ridges.

*Branching.*—Main stem arises from base with numerous secondary branches, number of lateral branches an average of 55 per main stem 181 cm in length.

*Branch arrangement.*—Alternate (closely on twigs).

*Branch aspect.*—Main stems upright, lateral stems held at about an average of 45° angle from the main stem with sprays that curve upwards.

*Internode length.*—Average of 1.2 cm.

*Stem color.*—New growth on sprays (twigs) are 144C with scales 144A, young branches 165C with scales N167B, branches mature to 200D becoming 200A to 200B with age.

Foliage description:

*Leaf arrangement.*—Numerous leaves arranged on planar branchlets (closely alternate or opposite), scale-like decussate.

*Leaf shape.*—Facial pair keeled, flat pair flattened and oblong.

*Leaf division.*—Simple.

*Leaf base.*—Cuneate.

*Leaf apex.*—Apiculate.

*Leaf venation.*—Not visible.

*Leaf margins.*—Entire.

*Leaf surface.*—Upper and lower; glabrous, smooth, glossy.

*Leaf color.*—Young upper surface; 144A, young lower surface; 144B, mature upper surface; 137A, mature lower surface; 137A to 137B, winter upper surface; 147B, winter lower surface; 138A.

*Leaf fragrance.*—Cedar scented when crushed.

*Leaf size.*—Average of 3.5 mm in length and 15 mm in width.

*Leaf quantity.*—About 1,400 leaves per lateral branch.

Cone description: No cones have been observed on the plants trialed for data collection.

It is claimed:

1. A new and distinct cultivar of *Thuja* plant named 'De Rakt' as herein illustrated and described.

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FIG. 1



FIG. 2