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(12) **United States Plant Patent**  
**Hofman et al.**

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(54) **NEMESIA PLANT NAMED 'INTRAIYEL'**  
(50) Latin Name: *Nemesia* hybrid  
Varietal Denomination: **Intraiyel**  
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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 9 days.  
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**A01H 5/00** (2006.01)  
(52) **U.S. Cl.** ..... **Plt./263**  
(58) **Field of Classification Search** ..... **Plt./263**  
See application file for complete search history.

(56) **References Cited**  
**PUBLICATIONS**  
UPOV ROM GTITM Computer Database, GTI Jouve Retrieval Software 2006/05 Citations for 'Intraiyel'.\*  
[http://www.provenwinners.com/plants/detail.cfm?photoID=5993&doSearch=1&viewType=Fall.\\*](http://www.provenwinners.com/plants/detail.cfm?photoID=5993&doSearch=1&viewType=Fall.*)  
\* cited by examiner  
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(57) **ABSTRACT**  
A new and distinct cultivar of *Nemesia* plant named 'Intraiyel', characterized by its upright, outwardly spreading to trailing plant habit; freely branching habit; dense and bushy appearance; early flowering habit; numerous large pale yellow-colored flowers; and long flowering period.

**1 Drawing Sheet**

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Botanical designation: *Nemesia* hybrid.  
Cultivar denomination: 'Intraiyel'.

**BACKGROUND OF THE INVENTION**

The present invention relates to a new and distinct cultivar of *Nemesia* plant, botanically known as *Nemesia* hybrid and referred to by the name 'Intraiyel'.

The new *Nemesia* is a product of a planned breeding program conducted by the Inventors in Gensingen, Germany. The objective of the program is to create new strong *Nemesia* cultivars with numerous flowers and unique flower colors.

The new *Nemesia* originated from a cross-pollination made by the Inventors of an unnamed *Nemesia strumosa* selection, not patented, as the female, or seed, parent with an unnamed *Nemesia fruticans* selection, not patented during the summer of 2001. The cultivar Intraiyel was discovered and selected by the Inventors as a single flowering plant within the progeny of the stated cross-pollination in a controlled environment in Gensingen, Germany during the summer of 2002.

Asexual reproduction of the new *Nemesia* by terminal cuttings in a controlled environment in Gensingen, Germany since June, 2002, has shown that the unique features of this new *Nemesia* are stable and are reproduced true to type in successive generations.

**SUMMARY OF THE INVENTION**

The new *Nemesia* has not been observed under all possible environmental conditions. The phenotype may vary somewhat with variations in environment such as temperature, daylength and light intensity, without, however, any variance in genotype.

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The following characteristics have been repeatedly observed and are determined to be basic characteristics of 'Intraiyel' and distinguish 'Intraiyel' as a new and distinct cultivar:

- 5 1. Upright, outwardly spreading to trailing plant habit.
- 2. Freely branching habit; dense and bushy appearance.
- 3. Early flowering habit.
- 4. Numerous large pale yellow-colored flowers.
- 10 5. Long flowering period.

Plants of the new *Nemesia* differ primarily from plants of the female parent selection in the following characteristics:

- 15 1. Plants of the new *Nemesia* are more outwardly spreading than and not as upright as plants of the female parent selection.
- 2. Plants of the new *Nemesia* flower for a longer period of time than plants of the female parent selection.

Plants of the new *Nemesia* differ primarily from plants of the male parent selection in the following characteristics:

- 20 1. Plants of the new *Nemesia* have larger flowers than plants of the male parent selection.
- 2. Plants of the new *Nemesia* and the male parent selection differ in flower color as plants of the male parent selection have white to soft pink-colored flowers.

Plants of the new *Nemesia* can be compared to plants of the cultivar Intraibana, disclosed in U.S. Plant patent application Ser. No. 11/174,977. In side-by-side comparisons conducted in Gensingen, Germany, plants of the new *Nemesia* differed primarily from plants of the cultivar Intraibana in flower color as plants of the new *Nemesia* had lighter yellow-colored flowers than plants of the cultivar Intraibana.

**BRIEF DESCRIPTION OF THE PHOTOGRAPHS**

35 The accompanying colored photographs illustrate the overall appearance of the new *Nemesia*, showing the colors



as true as it is reasonably possible to obtain in colored reproductions of this type. Colors in the photographs may differ slightly from the color values cited in the detailed botanical description which accurately describe the colors of the new *Nemesia*.

The photograph at the top of the sheet comprises a side perspective view of a typical plant of 'Intraiyel' grown in a container.

The photograph at the bottom of the sheet comprises a close-up view of typical flowers of 'Intraiyel'.

#### DETAILED BOTANICAL DESCRIPTION

The aforementioned photographs and following observations and averaged measurements describe plants grown in Bonsall, Calif., in an outdoor nursery during the summer with day temperatures ranging from 18° C. to 35° C. and night temperatures ranging from 7° C. to 18° C. After rooting, plants were grown for ten weeks in 15-cm containers with one plant per container. Color references are made to The Royal Horticultural Society Colour Chart, 1995 Edition, except where general terms of ordinary dictionary significance are used.

Botanical classification: *Nemesia* hybrid cultivar Intraiyel.

Parentage:

*Female parent*.—Unnamed *Nemesia strumosa* selection, not patented.

*Male parent*.—Unnamed *Nemesia fruticans* selection, not patented.

Propagation:

*Type*.—By vegetative cuttings.

*Time to initiate roots*.—About 10 to 14 days at 20° C.

*Time to develop roots*.—About two to three weeks at 20° C.

*Root description*.—Fine; white in color.

*Rooting habit*.—Freely branching.

Plant description:

*General appearance*.—Upright, outwardly spreading to trailing plant habit; broad inverted triangle. Freely branching, typically about 15 primary lateral branches; numerous secondary and tertiary lateral branches. Vigorous growth habit.

*Plant height*.—About 20 cm.

*Plant diameter or spread*.—About 55 cm.

*Lateral branches*.—Appearance: Square in cross-section with longitudinal ridges. Length: About 28 cm. Diameter: About 3.5 mm. Internode length: About 2.5 cm. Strength: Strong. Texture: Smooth, glabrous. Color: 146A.

*Foliage description*.—Arrangement: Opposite, simple; sessile. Shape: Elliptic to lanceolate. Apex: Acute. Base: Obtuse. Length: About 4.5 cm. Width: About 1.5 cm. Margin: Serrate. Texture, upper and lower surfaces: Smooth, glabrous. Venation pattern: Pinnate, arcuate. Color: Developing and fully expanded leaves, upper surface: 146A. Developing and fully expanded leaves, lower surface: 146B. Venation, upper and lower surfaces: 146B.

Flowering description:

*Arrangement/appearance*.—Zygomorphic solitary flowers arranged on terminal racemes; flowering

acropetally towards apex. Flowers bilabiate with nectar spur. Flowers face upright and outward. Flowers last about five days on the plant. Flowers not persistent.

*Natural flowering season*.—Long flowering period; natural flowering season is spring to fall; flowering continuous during this period.

*Quantity of flowers*.—Freely flowering with about 19 flowers and flower buds per inflorescence.

*Fragrance*.—None detected.

*Inflorescence length*.—About 14 cm.

*Inflorescence diameter*.—About 3.5 cm.

*Flower diameter*.—About 1.5 cm by 1.5 cm.

*Flower depth, including nectar spur*.—About 1.4 cm.

*Flower buds*.—Shape: Ovoid with spur. Length including spur: About 1.1 cm. Diameter: About 5 mm. Color: 1C to 1D.

*Petals*.—Arrangement/shape: Five petals in a single whorl. Four upper petals are fused at base to form an upright lobed and arched banner lip; lower petal modified into a larger lip with nectar spur and central protuberance which serves as pollinator nectar guide and landing platform. Apex: Rounded. Margin: Entire. Length: Upper lip petals: About 4 mm. Lower lip petal: About 8 mm. Width: Upper lip petals: About 4 mm. Lower lip petal: About 1 cm. Texture, upper and lower surfaces: Smooth, velvety. Color: When opening, upper and lower surfaces: 8D. Fully opened, upper surface: 8D; stripes at base, 71A. Fully opened, lower surface: 8D; stripes, 71A. Nectar guide: 13A. Nectar spur: 8D.

*Sepals*.—Quantity: Five-parted, star-shaped calyx. Shape: Linear. Apex: Acute. Base: Fused. Margin: Entire. Length: About 4 mm. Diameter: About 1 mm. Texture, upper and lower surfaces: Pubescent. Color, upper and lower surfaces: 146A.

*Peduncle*.—Length: About 3.5 cm. Diameter: About 2 mm. Strength: Moderately strong. Angle: Upright to 45° from the stem. Color: 146A.

*Pedicel*.—Length: About 1.3 cm. Diameter: Less than 1 mm. Strength: Moderately strong. Angle: About 45° from the stem. Color: 144A.

*Androecium*.—Stamen number: Four per flower. Anther shape: Oval. Anther length: Less than 1 mm. Anther color: 7A. Amount of pollen: Scarce. Pollen color: 7A.

*Gynoecium*.—Pistil number: One per flower. Pistil length: About 2 mm. Style length: About 1 mm. Style color: 145B. Stigma shape: Rounded. Stigma color: 145B. Ovary color: 145A.

*Seed/fruit*.—Seed and fruit production has not been observed on plants of the new *Nemesia*.

*Disease/pest resistance*: Plants of the new *Nemesia* have not been observed to be resistant to pathogens or pests common to *Nemesias*.

*Temperature tolerance*: Plants of the new *Nemesia* have been observed to be tolerant to temperatures ranging from 2° C. to 35° C.

It is claimed:

1. A new and distinct cultivar of *Nemesia* plant named 'Intraiyel', as illustrated and described.

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