



US00PP16542P2

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

(10) **Patent No.:** **US PP16,542 P2**  
(45) **Date of Patent:** **May 16, 2006**

(54) **NEMESIA PLANT NAMED ‘SUMNEM 02’**

(50) Latin Name: *Nemesia caerulea*  
Varietal Denomination: **Sumnem 02**

(76) Inventor: **Ralf Schröder**, Karl-Leisner-Str. 15,  
D-59348 Lüdinghausen (DE)

(\*) Notice: Subject to any disclaimer, the term of this  
patent is extended or adjusted under 35  
U.S.C. 154(b) by 43 days.

(21) Appl. No.: **10/959,876**

(22) Filed: **Oct. 6, 2004**

(51) **Int. Cl.**  
**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.

*Primary Examiner*—Anne Marie Grunberg

*Assistant Examiner*—June Hwu

(74) *Attorney, Agent, or Firm*—C. A. Whealy

(57) **ABSTRACT**

A new and distinct cultivar of *Nemesia* plant named ‘Sum-  
nem 02’, characterized by its upright and compact plant  
habit; freely branching habit; short internodes; dense and  
bushy growth habit; early flowering habit; and numerous  
light purple-colored flowers.

**1 Drawing Sheet**

**1**

Botanical classification/cultivar designation: *Nemesia*  
*caerulea* cultivar Sumnem 02.

**BACKGROUND OF THE INVENTION**

The present invention relates to a new and distinct cultivar  
of *Nemesia* plant, botanically known as *Nemesia caerulea*  
and referred to by the name ‘Sumnem 02’.

The new *Nemesia* is a product of a planned breeding  
program conducted by the Inventor in Lüdinghausen, Ger-  
many. The objective of the program is to create new upright,  
vigorous and early-flowering *Nemesia* cultivars with numer-  
ous flowers and unique flower colors.

The new *Nemesia* originated from a cross-pollination  
made by the Inventor of a proprietary *Nemesia caerulea*  
selection identified as Seedling 12, not patented, as the  
female, or seed, parent with a proprietary *Nemesia caerulea*  
selection identified as Seedling 9, not patented, as the male,  
or pollen, parent in May, 2002. The cultivar Sumnem 02 was  
discovered and selected by the Inventor as a flowering plant  
within the progeny of the stated cross-pollination in a  
controlled environment in Lüdinghausen, Germany in April,  
2003.

Asexual reproduction of the new *Nemesia* by terminal  
cuttings in a controlled environment in Lüdinghausen, Ger-  
many since April, 2003, 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 pos-  
sible environmental conditions. The phenotype may vary  
somewhat with variations in environment such as  
temperature, daylength and light intensity, without,  
however, any variance in genotype.

The following characteristics have been repeatedly  
observed and are determined to be basic characteristics of  
‘Sumnem 02’ and distinguish ‘Sumnem 02’ as a new and  
distinct cultivar:

1. Upright and compact plant habit.
2. Freely branching habit.

**2**

3. Short internodes; dense and bushy growth habit.

4. Early flowering habit.

5. Numerous light purple-colored flowers.

Plants of the new *Nemesia* differ primarily from plants of  
the female parent selection in flower color as plants of the  
female parent selection have pink-colored flowers.

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

1. Plants of the new *Nemesia* are more compact than  
plants of the male parent selection.

2. Plants of the new *Nemesia* have stronger lateral  
branches than plants of the male parent selection.

Plants of the new *Nemesia* can be compared to plants of  
the cultivar Pencand, disclosed in U.S. Plant Pat. No.  
14,370. In side-by-side comparisons conducted in  
Lüdinghausen, Germany, plants of the new *Nemesia* differed  
from plants of the cultivar Pencand in the following char-  
acteristics:

1. Plants of the new *Nemesia* were more upright than and  
not as outwardly spreading as plants of the cultivar  
Pencand.

2. Plants of the new *Nemesia* had narrower leaves than  
plants of the cultivar Pencand.

3. Plants of the new *Nemesia* flowered about one to two  
weeks earlier than plants of the cultivar Pencand.

4. Plants of the new *Nemesia* had smaller flowers than  
plants of the cultivar Pencand.

5. Plants of the new *Nemesia* and the cultivar Pencand  
differed slightly in flower color.

**BRIEF DESCRIPTION OF THE PHOTOGRAPH**

The accompanying colored photograph illustrates 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 photograph may  
differ slightly from the color values cited in the detailed  
botanical description which accurately describe the colors of  
the new *Nemesia*. The photograph comprises a side perspec-  
tive view of a typical plant of ‘Sumnem 02’ grown in a  
hanging basket container.



## DETAILED BOTANICAL DESCRIPTION

The aforementioned photograph and following observations and averaged measurements describe plants grown in Lüdinghausen, Germany, in an outdoor nursery during the spring and summer with day temperatures ranging from 16 to 24° C., night temperatures ranging from 8 to 12° C. and light levels ranging from 25,000 to 45,000 lux. After rooting, plants were grown for about four months in hanging basket containers. Plants were pinched once. Color references are made to The Royal Horticultural Society Colour Chart, 2001 Edition, except where general terms of ordinary dictionary significance are used.

Botanical classification: *Nemesia caerulea* cultivar Sumnem 02.

Parentage:

*Female parent*.—Proprietary *Nemesia caerulea* selection identified as Seedling 12, not patented.

*Male parent*.—Proprietary *Nemesia caerulea* selection identified as Seedling 9, not patented.

Propagation:

*Type*.—By vegetative cuttings.

*Time to initiate roots, summer*.—About 7 days at 18° C.

*Time to initiate roots, winter*.—About 8 to 9 days at 18° C.

*Time to develop roots, summer*.—About 16 days at 18° C.

*Time to develop roots, winter*.—About 24 days at 18° C.

*Root description*.—Fine, fibrous; freely branching; 162C in color.

Plant description:

*General appearance*.—Upright and compact plant habit. Freely branching, typically about six to eight primary lateral branches each with numerous secondary and tertiary lateral branches. Short internodes; dense and bushy growth habit. Numerous light purple-colored zygomorphic flowers. Moderately vigorous growth habit.

*Plant height*.—About 20 to 25 cm.

*Plant diameter or spread*.—About 20 to 25 cm.

*Lateral branches*.—Length: About 20 cm. Diameter: About 2 mm. Internode length: About 2.5 to 3 cm. Strength: Strong. Texture: Smooth, glabrous. Color: 144A.

*Foliage description*.—Arrangement: Opposite, simple. Shape: Lanceolate. Apex: Acute. Base: Acute to obtuse. Length: About 2.5 to 3 cm. Width: About 1 to 1.2 cm. Margin: Serrate. Texture, upper and lower surfaces: Smooth, glabrous. Venation pattern: Pinnate, arcuate. Petiole length: About 2 mm. Petiole diameter: About 1 mm. Petiole texture, upper and lower surfaces: Smooth, glabrous. Color: Developing leaves, upper surface: 137B. Developing leaves, lower surface: 137C. Fully expanded leaves, upper surface: 137A. Fully expanded leaves, lower surface: 138A. Venation, upper surface: 143B. Venation, lower surface: 144A. Petiole, upper surface: 143B. Petiole, lower surface: 144A.

Flowering description:

*Arrangement/appearance*.—Zygomorphic solitary flowers arranged on terminal racemes; flowering acropetally towards apex. Flowers bilabiate with nectar spur. Flowers face upright to outwardly. Flow-

ers last about eight to ten days on the plant. Flowers not persistent.

*Natural flowering season*.—Natural flowering season is early spring to fall in northern Europe; flowering continuous during this period. Early flowering, plants start flowering about five to six weeks after pinching.

*Quantity of flowers*.—Freely flowering with about 22 to 28 flowers and flower buds per raceme at one time.

*Fragrance*.—Floral-like; faint.

*Inflorescence length*.—About 12 to 15 cm.

*Inflorescence diameter*.—About 3 to 3.5 cm.

*Flower diameter*.—About 1.8 to 2 cm.

*Flower depth*.—About 2.2 to 2.4 cm.

*Flower buds*.—Shape: Rotund. Length: About 2 mm. Diameter: About 2 mm. Color: 138A.

*Petals*.—Arrangement/shape: Five petals. 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 convex oval protuberance which serves as pollinator nectar guide and landing platform. Shape: Oval to obovate. Apex: Rounded. Margin: Entire. Length: Upper lip petals: About 1.5 to 1.7 cm. Lower lip petal: About 1 to 1.1 cm. Width: Upper lip petals: About 4 to 7 mm. Lower lip petal: About 1 cm. Texture, upper and lower surfaces: Smooth, velvety. Color: When opening, upper surface: 68A. When opening, lower surface: 69C. Fully opened, upper surface: 76A; color becoming closer to 91D with development. Fully opened, lower surface: 76D. Nectar guide: Close to 4A. Nectar spur, when opening: 1C. Nectar spur, fully opened: 2D.

*Sepals*.—Quantity: Five-parted, star-shaped calyx. Shape: Lanceolate. Apex: Acute. Base: Truncate. Margin: Entire. Length: About 1.5 to 2 mm. Diameter: About 1 mm. Texture, upper and lower surfaces: Smooth, glabrous. Color, immature, upper and lower surfaces: 137C. Color, mature, upper surface: 137B. Color, mature, lower surface: 137C.

*Pedicels*.—Length: About 1.2 to 1.5 cm. Diameter: About 0.5 to 1 mm. Strength: Strong. Angle: About 35 to 45° from the stem. Texture: Smooth, glabrous. Color: 141A.

*Androecium*.—Stamen number: Two per flower. Anther shape: Rounded. Anther length: Less than 0.5 mm. Anther color: 5A. Amount of pollen: Moderate. Pollen color: 5A.

*Gynoecium*.—Pistil number: One per flower. Pistil length: Less than 1 mm. Style length: Less than 1 mm. Style color: 144C. Stigma shape: Rounded. Stigma color: 5A. Ovary color: 144C.

*Seed*.—Length: About 3 mm. Diameter: About 2 mm. Color: 200D.

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

Temperature tolerance: Plants of the new *Nemesia* have been observed to be tolerant to temperatures ranging from 0° to 40° C.

It is claimed:

1. A new and distinct cultivar of *Nemesia* plant named 'Sumnem 02', as illustrated and described.

\* \* \* \* \*



