



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

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(54) **ALSTROEMERIA PLANT NAMED ‘ZALSATAI’**

(50) Latin Name: *Alstroemeria hybrida*
Varietal Denomination: **Zalsatai**

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patent is extended or adjusted under 35
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(58) **Field of Classification Search** Plt./309
See application file for complete search history.

(56) **References Cited**
PUBLICATIONS

Upov-rom GTITM, Plant Variety Database, 2006/01, GTI
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(57) **ABSTRACT**

A new and distinct cultivar of *Alstroemeria* plant named
‘Zalsatai’, characterized by its erect and strong flowering
stems; vigorous growth habit; white-colored flowers with
yellow and pink-colored throats; and good postproduction
longevity.

1 Drawing Sheet

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Botanical designation: *Alstroemeria hybrida*.
Cultivar denomination: ‘Zalsatai’.

BACKGROUND OF THE INVENTION

The present Invention relates to a new and distinct culti-
var of *Alstroemeria* plant, botanically known as *Alstroeme-
ria hybrida*, commercially used as a cut flower *Alstroemeria*,
and hereinafter referred to by the name ‘Zalsatai’.

The new *Alstroemeria* is a product of a planned breeding
program conducted by the Inventor in Hillegom, The Neth-
erlands. The objective of the breeding program was to
develop new cut flower *Alstroemeria* cultivars with desir-
able flower and plant qualities, attractive flower colors and
excellent postproduction longevity.

The new *Alstroemeria* originated from a cross-pollination
made by the Inventor in June, 1998 in Hillegom, The
Netherlands, of a proprietary *Alstroemeria hybrida* selection
identified as 97-669-4PN, not patented, as the female, or
seed, parent with a proprietary *Alstroemeria hybrida* selec-
tion identified as 97-285-1, not patented, as the male, or
pollen, parent. The new *Alstroemeria* was discovered and
selected by the Inventor as a flowering plant within the
progeny of the stated cross-pollination in a controlled envi-
ronment in Hillegom, The Netherlands in April, 1999.

Asexual reproduction of the new cultivar by root divisions
in a controlled environment in Hillegom, The Netherlands,
since August, 1999, has shown that the unique features of
this new *Alstroemeria* are stable and reproduced true to type
in successive generations of asexual propagation.

SUMMARY OF THE INVENTION

Plants of the cultivar ‘Zalsatai’ have not been observed
under all possible environmental conditions. The phenotype
may vary somewhat with variations in environment such as

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temperature and light intensity without, however, any vari-
ance in genotype.

The following traits have been repeatedly observed and
are determined to be the unique characteristics of ‘Zalsatai’.
These characteristics in combination distinguish ‘Zalsatai’
as a new and distinct cultivar:

1. Erect and strong flowering stems.
2. Vigorous growth habit.
3. White-colored flowers with yellow and pink-colored
throats.
4. Good postproduction longevity.

Plants of the new *Alstroemeria* can be compared to plants
of the female parent selection. In side-by-side comparisons
conducted in Hillegom, The Netherlands, plants of the new
Alstroemeria differed from plants of the female parent
selection in the following characteristics:

1. Plants of the new *Alstroemeria* has larger flowers than
plants of the female parent selection.
2. Plants of the new *Alstroemeria* and the female parent
selection differed in flower color as plants of the female
parent selection had pink-colored flowers.

Plants of the new *Alstroemeria* can be compared to plants
of the male parent selection. In side-by-side comparisons
conducted in Hillegom, The Netherlands, plants of the new
Alstroemeria differed primarily from plants of the male
parent selection in the following characteristics:

1. Plants of the new *Alstroemeria* had larger flowers than
plants of the male parent selection.
2. Plants of the new *Alstroemeria* and the male parent
selection differed in flower color as plants of the male
parent selection has solid white-colored flowers.

Plants of the new *Alstroemeria* can also be compared to
plants of the cultivar Stabec, disclosed in U.S. Plant Pat. No.

9,041. In side-by-side comparisons conducted in Hillegom, The Netherlands, plants of the new *Alstroemeria* differed from plants of the cultivar Stabec in the following characteristics:

1. Plants of the new *Alstroemeria* have shorter flowering stems with shorter internodes than plants of the cultivar Stabec.
2. Plants of the new *Alstroemeria* has smaller flowers than plants of the cultivar Stabec.
3. Plants of the new *Alstroemeria* and the cultivar Stabec differed in flower color as plants of the cultivar Stabec had red and white-colored flowers.

BRIEF DESCRIPTION OF THE PHOTOGRAPH

The accompanying colored photograph illustrates the overall appearance of the new *Alstroemeria*, 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 *Alstroemeria*. The photograph comprises a side perspective view of a typical flowering stem of 'Zalsatai'.

DETAILED BOTANICAL DESCRIPTION

The aforementioned photograph and following observations and measurements describe plants of the new *Alstroemeria* grown in Rijsenhout, The Netherlands in a glass-covered greenhouse in ground beds. During the production of the plants, day temperatures ranged from 15° C. to 20° C., night temperatures ranged from 10° C. to 15° C., soil temperature was about 14° C. and light levels averaged 5,000 lux. Plants used for the photograph and description were about one year-old. The photograph and the description were taken during March and April, 2005. 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: *Alstroemeria hybrida* cultivar 'Zalsatai'.

Parentage:

Female parent.—Proprietary *Alstroemeria hybrida* selection identified as 97-669-4PN, not patented.

Male parent.—Proprietary selection of *Alstroemeria hybrida* identified as 97-285-1, not patented.

Propagation:

Type.—By root divisions.

Root description.—Fibrous, fleshy, thick; white, close to 155D, in color.

Rooting habit.—Freely branching.

Rhizomes.—Shape: Elongate; rounded. Length: About 10 cm to 30 cm. Diameter: About 3 mm to 10 mm. Texture: Smooth. Color: Close to 155D.

Plant description:

Plant habit.—Upright; freely branching, bushy appearance. Vigorous growth habit.

Time from planting to harvest of cut flowers.—About 80 to 90 days.

Number of flowering stems produced per year.—About 240 to 260.

Plant height.—About 90 cm to 120 cm.

Plant diameter (spread).—About 25 cm to 30 cm.

Flowering stem description.—Aspect: Erect. Length: About 120 cm. Diameter: About 5 mm to 8 mm. Internode length: About 1 cm to 4 cm. Strength:

Strong. Texture: Smooth, glabrous. Color: Close to 143A.

Foliage description.—Leaves simple and asymmetrical; sessile. Length: About 15 cm to 20 cm. Width: About 2.5 cm to 3.5 cm. Shape: Linear to lanceolate. Apex: Acute. Base: Attenuate. Margin: Entire; weakly undulate. Texture, upper and lower surfaces: Smooth, glabrous. Venation pattern: Parallel. Color: Developing and fully developed foliage, upper surface: Close to 137A; slightly glossy; venation, similar to lamina. Developing and fully developed foliage, lower surface: Close to 137B; venation, similar to lamina.

Flower description:

Flower type and habit.—Single cup-shaped flowers arranged in compound umbels. Perianth segments separate. Freely and continuously flowering. Flowers not persistent.

Natural flowering season.—Flowering continuous during the spring in The Netherlands.

Fragrance.—None detected.

Flower longevity on the plant.—About four weeks.

Flower longevity as a cut flower.—About 20 to 25 days.

Flower buds (showing color).—Length: About 4 cm to 5 cm. Diameter: About 1 cm to 2 cm. Shape: Roughly ovoid. Color: 145B.

Umbel length.—About 15 cm to 20 cm.

Umbel diameter.—About 20 cm to 25 cm.

Number of flowers per umbel.—About 15 to 20.

Flower diameter.—About 6 cm to 7 cm.

Flower length (height).—About 6.5 cm to 7.5 cm.

Flower depth.—About 5 cm to 6 cm.

Perianth.—Arrangement: Six arranged in two whorls, each whorl with two lateral and one median segments. Outer perianth: Length, lateral segments: About 6 cm to 7 cm. Width, lateral segments: About 3 cm to 4 cm. Length, median segment: About 6.5 cm to 7.5 cm. Width, median segment: About 3.5 cm to 4.5 cm. Shape, lateral and median segments: Obovate. Apex, lateral and median segments: Emarginate with apical tip. Base, lateral and median segments: Attenuate. Margin, lateral and median segments: Entire; weakly undulate. Texture, lateral and median segments: Smooth, glabrous; velvety. Color, lateral and median segments, when opening and fully opened, upper surface: 155B; towards the base, blushed with 77B; apical tip, close to 144A. Color, lateral and median segments, when opening and fully opened, lower surface: 155B; towards the base, blushed with 77B; apical tip, close to 144A. Inner perianth: Length, lateral segments: About 6.5 cm to 7.5 cm. Width, lateral segments: About 2 cm to 2.5 cm. Length, median segment: About 5.5 cm to 6.5 cm. Width, median segment: About 2 cm to 2.5 cm. Shape, lateral and median segments: Oblanceolate. Apex, lateral and median segments: Cuspidate. Base, lateral and median segments: Attenuate. Margin, lateral and median segments: Entire; weakly undulate. Texture, lateral and median segments: Smooth, glabrous; velvety. Color, lateral segments, when opening and fully opened, upper surface: 155B; central area, 7A; random spots towards the base, close to 77B. Color, lateral segments, when opening and fully opened, lower surface: 155B; towards the base, 7B. Color, median segment, when opening and fully opened, upper and lower surface: 155B.

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Peduncles.—Length: About 6 cm to 12 cm. Diameter: About 3 mm to 5 mm. Strength: Strong. Angle: About 15° to 20° from vertical. Texture: Smooth, glabrous. Color: Close to 138A.

Pedicels.—Length: About 2 cm to 3 cm. Diameter: About 2 mm to 3 mm. Strength: Strong. Angle: About 15° to 20° from vertical. Texture: Smooth, glabrous. Color: Close to 138A.

Reproductive organs.—Stamens: Quantity per flower: Six. Anther shape: Elliptical. Anther length: About 8 mm. Anther diameter: About 2 mm. Anther color: Close to 174A. Filament length: About 3.7 cm to 4.3 cm. Filament color: 75C. Pollen amount: Abundant. Pollen color: Close to 179A. Pistils: Quantity per flower: One. Style length: About 4.5 cm. Style color:

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75C. Stigma color: 75D. Ovary color: Close to 144A.

Fruit.—Quantity of fruit per plant: Few. Shape: Globular. Color: 137C. Size: About 1 cm by 8 mm.

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

Temperature tolerance: Plants of the new *Alstroemeria* have been observed to tolerate temperatures from −5° C. to 40° C.

It is claimed:

1. A new and distinct cultivar of *Alstroemeria* plant named ‘Zalsatai’, as illustrated and described.

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