



US00PP14577P29

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

(10) **Patent No.:** **US PP14,577 P2**
(45) **Date of Patent:** **Mar. 9, 2004**

(54) **ARGYRANTHEMUM FRUTESCENS PLANT NAMED 'ARGYRAKETIS'**

(51) **Int. Cl.⁷** **A01H 5/00**
(52) **U.S. Cl.** **Plt./263**
(58) **Field of Search** **Plt./263**

(50) Latin Name: *Argyranthemum frutescens*
Varietal Denomination: **Argyraketis**

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(57) **ABSTRACT**

(73) Assignee: **Syngenta Seeds BV**, Enkhuizen (NL)

A distinct cultivar of Marguerite Daisy plant named 'Argyraketis' characterized by its upright vigorous plant habit, good field performance, good-bad weather tolerance, silver colored leaves, short internodes and short flower stems, freely flowering with numerous inflorescences per plant, pure white ray florets and bright yellow disc florets.

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 92 days.

(21) Appl. No.: **10/340,258**

1 Drawing Sheet

(22) Filed: **Jan. 10, 2003**

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Varietal denomination: 'Argyraketis'.

BACKGROUND OF THE NEW PLANT

The present invention relates to a new distinct cultivar of Marguerite Daisy plant, botanically known as *Argyranthemum frutescens* and referred to by the cultivar name 'Argyraketis.' The new cultivar is a product of a planned breeding program conducted by the inventor in Enkhuizen, The Netherlands. The objective of the breeding program was to develop a more vigorous plant that flowers early with a good field performance during the whole summer. As a result of an open pollination of 'A 4-1' the present cultivar was created in 1998 in Enkhuizen. 'Argyraketis' was asexually reproduced by cuttings for 4 years and tested under different conditions in Europe on Syngenta trial ground properties. It has been found to retain its distinctiveness characteristics through successive propagation, and its novelty appears to be firmly fixed.

Differences between the new cultivar 'Argyraketis' and two similar cultivars

	'Argyraketis'	'White Star'	'Sugar Baby' (patented)
Plant Height	40	28	32
Plant Diameter	58	37	52
Number of Branches	10	7	12
Flower Diameter	3.0	1.4-1.9	3.0-3.3
Foliage Color	137B	137C	138A

DESCRIPTION OF THE DRAWING

This new Marguerite Daisy plant is illustrated by the accompanying photographic drawing which shows blooms, buds and foliage of the plant in full color, the color shown being as true as can be reasonably obtained by conventional photographic procedures.

The plant:
Classification—Botanical *Argyranthemum frutescens* cv. 'Argyraketis'.

Parentage:
Female parent.—Proprietary seedling selection of *Argyranthemum frutescens*, identified as number A 4-1 (not patented). Breeders code of the new plant is B 2-10.
Male parent.—Unidentified selection of *Argyranthemum frutescens*.

Propagation:
Type cuttings.—Terminal cuttings.
Time to initiated roots.—7 to 10 days at air temperature of 21 degrees C.
Time to develop roots.—7 to 14 days at air temperature of 18 degrees C.

DESCRIPTION OF THE NEW CULTIVAR

The following detailed descriptions set forth the distinctive characteristics of this new Marguerite Daisy plant. The data that defines these characteristics were collected from asexual reproductions carried out in Enkhuizen, Netherlands. The plant history was taken on 25 weeks old plants, grown on the field in Enkhuizen, The Netherlands in full sun with day temperatures ranging from 15 and 30 degrees C., and night temperatures ranging from 5 to 18 degrees C. Color references are primarily to The R.H.S Color Chart of The Royal Horticultural Society of London.

Plant description:
Growth habit.—Upright and compact.
Plant height.—40 cm.
Spreading area of plant.—58 cm.
Strength.—Resistant to cold and wet circumstances.
Branching character.—Freely branching, plants do not require pinching.
Crop time.—About 6-8 weeks are required to produce a finished flowering plant in a 10.5 cm container from a good developed cutting.
The stem:
Diameter.—4-5 mm.
Shape.—Cylindrical.

Anthocyan pigmentation.—Absent.

Length of internode.—±1 cm.

Pubescence.—Absent.

Color.—144D.

The foliage:

Arrangement.—Alternate.

Shape of leaf.—Bipinnatisect.

Leaf apex.—Acute.

Leaf base.—Attenuate.

Texture.—Glabrous smooth.

Length.—2.5–5.0 cm.

Width.—1.5–2.5 cm.

Depth of incision.—Laciniate.

Color.—Upper side: 137B. Lower side: 137B.

Pubescence.—Absent.

Petiole.—Absent.

Venation.—Shape: Pinnate. Color: 137C.

The bud:

Peduncle.—Length: 5.0–6.0 cm. Strength: Strong. Texture: Smooth. Color: 144A.

Size.—Diameter: 5 mm. Length: 5 mm.

Shape.—Ovoid.

Color.—162D.

Inflorescence:

Diameter.—±3 cm.

Form.—Capitulum with 1 series of ray florets and more series of disc florets.

Receptacle height.—0.5 cm.

Involucre/phyllaries.—3 series of 5 bracts, tightly to receptacle. Shape: Elliptic, with broad apex. Margin: Entire. Length: 3 mm. Color: Upper: 144A. Lower: 146A.

Fragrance.—Absent.

Quantity of inflorescences.—±50–100 flowers/plants depending on age and growing conditions.

Flowering period.—April til October in N-W Europe, plants flower continuously during this period.

Ray florets:

Shape of ray florets.—Ligulate.

Apex.—Rounded, little incised.

Base.—Cordate.

Margin.—Entire.

Color.—155B.

No. of ray florets per inflor.—±20.

Shape of ray floret.—Length: 1.3–1.5 cm. Width: 0.4 cm.

Texture.—Smooth.

Disc florets:

Shape of disc florets.—Tubular with 5 lobes.

Total disc diameter.—1.1 cm.

Color.—15A.

Size of disc floret.—Length: 4 mm. Width: 1 mm.

Number of disc florets/flower.—±80.

Androecium:

Anther color.—Yellow 5A.

Pollen color.—Yellow 5A.

Amount of pollen.—Scarce.

Number of stamens.—5 in central disc florets only.

Gynoecium:

Pistil number.—One per floret (ray florets only).

Pistil length.—About 2 mm.

Style color.—Yellow green 144C.

Style length.—About 1 mm.

Stigma color.—Yellow green 4A.

Stigma shape.—Bilobed.

Ovary color.—144C.

Disease resistance: No susceptibility nor resistance to fungal, bacterial or viral pathogens has been noted.

Seed: Seed production is not observed.

What is claimed is:

1. A new and distinct variety of *Argyranthemum* plant, substantially as herein illustrated and described, characterized particularly as to novelty by its vigorous but sturdy upright plant habit with continuous flowering during the season, good-bad weather recovery, silver colored foliage, short internodes and short flower stems.

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