



US00PP32708P2

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

(10) **Patent No.:** **US PP32,708 P2**
(45) **Date of Patent:** **Dec. 29, 2020**

(54) **CHRYSANTHEMUM PLANT NAMED**
‘G21POS04YE’

(50) Latin Name: *Chrysanthemum X morifolium*
Varietal Denomination: **G21POS04YE**

(71) Applicant: **Elie Sofie Pieters**, Oostnieuwkerke
(BE)

(72) Inventor: **Elie Sofie Pieters**, Oostnieuwkerke
(BE)

(73) Assignee: **Paraty B.V.B.A.**, Oostnieuwkerke (BE)

(*) Notice: Subject to any disclaimer, the term of this
patent is extended or adjusted under 35
U.S.C. 154(b) by 0 days.

(21) Appl. No.: **16/873,479**

(22) Filed: **Apr. 17, 2020**

(51) **Int. Cl.**
A01H 5/02 (2018.01)
A01H 6/14 (2018.01)

(52) **U.S. Cl.**
USPC **Plt./289**
CPC *A01H 6/1424* (2018.05)

(58) **Field of Classification Search**
USPC Plt./289
CPC *A01H 6/1424*
See application file for complete search history.

(56) **References Cited**

PUBLICATIONS

UPOV hit on *Chrysanthemum* plant named, ‘G21POS04YE’, QZ
PBR 2019/3446, filed Dec. 18, 2019.*

* cited by examiner

Primary Examiner — Anne Marie Grunberg

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

(57) **ABSTRACT**

A new and distinct cultivar of *Chrysanthemum* plant named
‘G21POS04YE’, characterized by its upright, outwardly
spreading and uniformly rounded plant habit; moderately
vigorous growth habit; freely branching habit; dense and full
plant habit; flexible stems; dark green-colored leaves; uni-
form and freely flowering habit; long flowering period;
spider decorative-type inflorescences with quilled ray florets
that are bright yellow in color; and excellent garden perfor-
mance.

1 Drawing Sheet

1

Botanical designation: *Chrysanthemum X morifolium*.
Cultivar denomination: ‘G21POS04YE’.

CROSS-REFERENCED TO CLOSELY-RELATED APPLICATIONS

Title: *Chrysanthemum* Plant Named ‘G20POS01WH’
Applicant: Elie Sofie Pieters
Filed: Concurrently with the instant application having
application Ser. No. 16/873,478

STATEMENT REGARDING PRIOR DISCLOSURES BY INVENTOR/APPLICANT

An European Community Plant Breeder’s Rights appli-
cation for the instant plant was filed by the Assignee, Paraty
B. V. B. A. of Oostnieuwkerke, Belgium, on Dec. 18, 2019,
application number 2019/3446. Foreign priority is not
claimed to this application.

There have been no offers for sale anywhere in the world
prior to the effective filing date of this Application and no
accessibility to one of ordinary skill in the art could have
been derived from the printed Plant Breeder’s Rights docu-
ments.

The Inventor/Applicant asserts that no publications nor
advertisements relating to sales, offers for sale or public
distribution occurred more than one year prior to the effec-
tive filing date of this application. Any information about the
claimed plant would have been obtained from a direct or
indirect disclosure from the Inventor. Applicant claims a
prior art exemption under 35 U.S.C. 102(b)(1) for disclosure

2

and/or sales prior to the filing date but less than one year
prior to the effective filing date.

BACKGROUND OF THE INVENTION

The present invention relates to a new and distinct cultivar
of *Chrysanthemum* plant, botanically known as *Chrysanthemum X morifolium* and hereinafter referred to by the name
‘G21POS04YE’.

The new *Chrysanthemum* plant is a product of a planned
breeding program conducted by the Inventor in Oostnieu-
wkerke, Belgium. The objective of the breeding program is
to create new uniformly mounding and freely flowering
Chrysanthemum plants with unique and attractive inflores-
cence form and ray floret coloration.

The new *Chrysanthemum* plant is a naturally-occurring
whole plant mutation of *Chrysanthemum X morifolium*
‘G20POS01WH’, disclosed in a U.S. Plant Patent applica-
tion filed concurrently having application Ser. No. 16/873,
478. The new *Chrysanthemum* plant was discovered and
selected by the Inventor as a single flowering plant from
within a population of plants of ‘G20POS01WH’ in a
controlled greenhouse environment in Oostnieuwkerke, Bel-
gium in October, 2017.

Asexual reproduction of the new *Chrysanthemum* plant
by vegetative terminal cuttings was first conducted in a
controlled greenhouse environment in Oostnieuwkerke, Bel-
gium in January, 2018. Asexual reproduction by vegetative
terminal cuttings has shown that the unique features of this

new *Chrysanthemum* plant are stable and reproduced true to type in successive generations.

SUMMARY OF THE INVENTION

The following traits have been repeatedly observed and are determined to be the unique characteristics of 'G21POS04YE'. These characteristics in combination distinguish 'G21POS04YE' as a new and distinct *Chrysanthemum* plant:

1. Upright, outwardly spreading and uniformly rounded plant habit; moderately vigorous growth habit.
2. Freely branching habit; dense and full plant habit; flexible stems.
3. Dark green-colored leaves.
4. Uniform and freely flowering habit.
5. Long flowering period.
6. Spider decorative-type inflorescences with quilled ray florets that are bright yellow in color.
7. Excellent garden performance.

Plants of the new *Chrysanthemum* can be compared to plants of the mutation parent, 'G209POS01WH'. In side-by-side comparisons, plants of the new *Chrysanthemum* differ primarily from plants of 'G209POS01WH' in ray floret color as ray florets of plants of the new *Chrysanthemum* are bright yellow in color whereas ray florets of plants of 'G209POS01WH' are light pale yellow becoming white with development in color.

Plants of the new *Chrysanthemum* can also be compared to plants of *Chrysanthemum X morifolium* 'PPP MIL YL05', disclosed in U.S. Plant Pat. No. 18,106. In side-by-side comparisons, plants of the new *Chrysanthemum* differ primarily from plants of 'PPP MIL YL05' in the following characteristics:

1. Plants of the new *Chrysanthemum* are more uniformly rounded in plant shape than plants of 'PPP MIL YL05'.
2. Leaves of plants of the new *Chrysanthemum* are brighter green in color and narrower than leaves of plants of 'PPP MIL YL05'.
3. Ray florets of plants of the new *Chrysanthemum* are quilled whereas ray florets of plants of 'PPP MIL YL05' are oblanceolate to ligulate in shape.

BRIEF DESCRIPTION OF THE PHOTOGRAPH

The accompanying photograph illustrates the overall appearance of the new *Chrysanthemum* plant showing the colors as true as it is reasonably possible to obtain in colored reproductions of this type.

The photograph comprises a side perspective view of a typical flowering plant of 'G21POS04YE' grown in a container.

DETAILED BOTANICAL DESCRIPTION

The aforementioned photograph and following observations and measurements describe plants grown in 19-cm containers in an outdoor nursery in Oostnieuwkerke, Belgium under natural daylengths during the autumn and under cultural practices generally used in commercial *Chrysanthemum* production. During the production of the plants, day temperatures ranged from 20° C. to 25° C. and night temperatures ranged from 12° C. to 18° C. Plants were 20 weeks old when the photograph and detailed description were taken. In the following description, color references are

made to The Royal Horticultural Society Colour Chart, 2015 Edition, except where general terms of ordinary dictionary significance are used.

Botanical classification: *Chrysanthemum X morifolium* 'G21POS04YE'.

Parentage: Naturally-occurring whole plant mutation of *Chrysanthemum X morifolium* 'G20POS01WH', disclosed in a U.S. Plant Patent application filed concurrently having application Ser. No. 16/873,478.

Propagation:

Type cutting.—By vegetative tip cuttings.

Time to initiate roots, summer.—About two weeks at temperatures about 20° C.

Time to initiate roots, winter.—About 20 days at temperatures about 20° C.

Time to produce a rooted young plant, summer.—About 30 days at temperatures about 20° C.

Time to produce a rooted young plant, winter.—About 40 days at temperatures about 20° C.

Root description.—Fine, fibrous; typically light brown in color, actual color of the roots is dependent on substrate composition, water quality, fertilizer type and formulation, substrate temperature and physiological age of roots.

Rooting habit.—Freely branching; medium density.

Plant description:

Appearance.—Perennial spider-type *Chrysanthemum* with quilled ray florets; stems upright and outwardly spreading giving a uniformly rounded appearance to the plant; plants roughly spherical; very freely branching habit, about 25 to 30 primary lateral branches develop, each primary lateral branch with multiple secondary branches; pinching enhances lateral branch development; dense and full plant habit; moderately vigorous growth habit; moderate growth rate; plants flexible, not brittle.

Plant height.—About 40 cm.

Plant width.—About 50 cm.

Lateral branches.—Length: About 25 cm. Diameter: About 2 mm to 3 mm. Internode length: About 2 cm. Strength: Moderately strong, flexible. Texture: Pubescent, fine; longitudinally ridged. Color: Close to 147C.

Leaves.—Arrangement: Alternate, simple. Length: About 3 cm to 5 cm. Width: About 2.5 cm to 3 cm. Apex: Rounded to cuspidate. Base: Attenuate. Margin: Palmately lobed and serrate, sinuses between lateral lobes divergent to parallel. Texture, upper and lower surfaces: Slightly pubescent. Venation: Palmately reticulate. Color: Developing leaves, upper surface: Close to 137C. Developing leaves, lower surface: Close to 137D. Fully expanded leaves, upper surface: Close to N137C; venation, close to 148C. Fully expanded leaves, lower surface: Close to 147B; venation, close to 147B to 147C. Petioles: Length: About 1 cm. Diameter: About 2 mm. Texture, upper and lower surfaces: Slightly pubescent; slightly rough. Color, upper surface: Close to 146C. Color, lower surface: Close to 146D. Stipules: Length: About 1 cm. Diameter: About 2 mm. Texture, upper and lower surfaces: Slightly pubescent. Color, upper and lower surfaces: Close to 137A.

Inflorescence description:

Appearance.—Spider decorative-type inflorescence form; inflorescences borne on terminals above foliar plane; disc and ray florets arranged acropetally on a capitulum.

Fragrance.—Slightly fragrant, pungent.

Flowering response.—Under natural season conditions, plants flower in late September in Belgium; flowering response time, about 35 days.

Postproduction longevity.—Inflorescences maintain good color and substance for about 42 days; inflorescences persistent.

Quantity of inflorescences.—About 30 to 35 inflorescences develop per lateral branch.

Inflorescence buds.—Height: About 8 mm. Diameter: About 1.3 cm. Shape: Globular. Color: Close to 7B.

Inflorescence diameter.—About 5 cm.

Inflorescence depth (height).—About 3.5 cm.

Disc diameter.—About 3 mm; inconspicuous.

Receptacle diameter.—About 3 mm.

Receptacle height.—About 2.5 mm to 3 mm.

Receptacle color.—Close to 144B.

Ray florets.—Number of ray florets per inflorescence:

About 150 to 200 arranged in about ten whorls.

Length: About 3.5 cm to 5 cm. Width: About 7 mm.

Shape: Quilled, tubular. Apex: Rounded. Base:

Fused. Aspect: Mostly horizontal. Texture and luster,

upper and lower surfaces: Smooth, glabrous; matte.

Color: When opening, upper and lower surfaces:

Close to 13B. Fully opened, upper and lower sur-

faces: Close to 12A; venation, close to 12A; color

becoming closer to 12C with development.

Disc florets.—Number of disc florets per inflorescence:

About 20 massed at the center of the inflorescence.

Length: About 3 mm. Diameter: About 0.5 mm to 1 mm. Shape: Tubular; apices dentate. Texture and luster: Smooth, glabrous; glossy. Color, immature: Close to 145A. Color, mature: Close to 12A.

Phyllaries.—Number of phyllaries per inflorescence: About 25 arranged in two or three whorls. Length: About 4 mm to 6 mm. Width: About 2 mm to 3 mm. Shape: Ovate. Apex: Rounded. Base: Rounded to truncate. Margin: Entire. Texture, upper and lower surfaces: Smooth, glabrous. Color, upper surface: Close to 137A. Color, lower surface: Close to N137B.

Peduncles.—Length, terminal peduncle: About 5 cm. Length, fourth peduncle: About 5 cm. Length, seventh peduncle: About 5 cm. Diameter: About 2 mm. Angle: About 30° from vertical. Strength: Moderately strong. Texture: Slightly pubescent. Color: Close to 147C.

Reproductive organs.—Androecium: Stamen development has not been observed on inflorescences of the new *Chrysanthemum*. Gynoecium: Pistil development has not been observed on inflorescences of the new *Chrysanthemum*.

Seeds and fruits.—To date seed and fruit production have not been observed on plants of the new *Chrysanthemum*.

Garden performance: Plants of the new *Chrysanthemum* have demonstrated excellent garden performance and will tolerate temperatures ranging from about 1° C. to about 45° C.

It is claimed:

1. A new and distinct *Chrysanthemum* plant named 'G21POS04YE' as illustrated and described.

* * * * *

