

(12) **United States Plant Patent**
van Sambeek

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(54) **GAILLARDIA PLANT NAMED**
'DOGAILSPINMARCOPSUN'

(50) Latin Name: *Gaillardia aristata*
Varietal Denomination: **Dogailspinmarcopsun**

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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 0 days.

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(58) **Field of Classification Search**
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See application file for complete search history.

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(57) **ABSTRACT**

A new and distinct cultivar of *Gaillardia* plant named
'Dogailspinmarcopsun', characterized by its compact and
mounded plant habit; freely branching habit; dense and
bushy habit; strong leaves that resist yellowing; early and
freely flowering habit; single-type inflorescences; spoon-
shaped ray florets that are bright red and yellow bi-colored;
and good garden performance.

1 Drawing Sheet

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Botanical designation: *Gaillardia aristata*.
Cultivar denomination: 'DOGAILSPINMARCOPSUN'.

STATEMENT REGARDING PRIOR
DISCLOSURES BY INVENTOR &
APPLICANT/ASSIGNEE

An European Community Plant Breeder's Rights appli-
cation for the instant plant was filed by the Applicant/
Assignee, Dümmen Group B.V. of De Lier, The Netherlands
on Jan. 13, 2021, application number 2021/0127. Foreign
priority is not claimed to this application.

The Inventor and Applicant/Assignee assert that no pub-
lications nor advertisements relating to sales, offers for sale
or public distribution occurred more than one year prior to
the effective filing date of this application. Any information
about the claimed plant would have been obtained from a
direct or indirect disclosure from the Inventor and/or Appli-
cant/Assignee. Inventor and Applicant/Assignee claim a
prior art exception under 35 U.S.C. 102(b)(1) for disclosure
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 *Gaillardia* plant, botanically known as *Gaillardia aristata*
and hereinafter referred to by the name 'Dogailspinmarcop-
sun'.

The new *Gaillardia* plant is a product of a planned
breeding program conducted by the Inventor in Aalsmeer,
The Netherlands. The objective of the breeding program is
to create new compact *Gaillardia* plants with unique and
attractive inflorescences and healthy leaves.

The new *Gaillardia* plant originated from an open-pollina-
tion in July, 2016 of a proprietary selection of *Gaillardia*
aristata identified as code number GA14-000037-002, not

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patented, as the female, or seed, parent with an unknown
proprietary selection of *Gaillardia aristata* as the male, or
pollen, parent. The new *Gaillardia* plant was discovered and
selected by the Inventor as a single flowering plant from
within the progeny of the stated open-pollination in a
controlled environment in Aalsmeer, The Netherlands in
July, 2017.

Asexual reproduction of the new *Gaillardia* plant by
vegetative terminal cuttings in a controlled environment in
Aalsmeer, The Netherlands, since August, 2017 has shown
that the unique features of this new *Gaillardia* plant are
stable and reproduced true to type in successive generations.

SUMMARY OF THE INVENTION

Plants of the new *Gaillardia* have not been observed
under all possible combinations of environmental conditions
and cultural practices. The phenotype may vary somewhat
with variations in environmental conditions such as tem-
perature and light intensity, without, however, any variance
in genotype.

The following traits have been repeatedly observed and
are determined to be the unique characteristics of 'Dogail-
spinmarcopsun'. These characteristics in combination dis-
tinguish 'Dogailspinmarcopsun' as a new and distinct *Gail-
lardia* plant:

1. Compact and mounded plant habit.
2. Freely branching habit; dense and bushy habit.
3. Strong leaves that resist yellowing.
4. Early and freely flowering habit.
5. Single-type inflorescences.
6. Spoon-shaped ray florets that are bright red and yellow
bi-colored.
7. Good garden performance.

Plants of the new *Gaillardia* differ primarily from plants
of the female parent selection in the following characteris-
tics:

1. Ray florets of plants of the new *Gaillardia* are spoon-shaped whereas ray florets of plants of the female parent selection are ligulate in shape.
2. Ray florets of plants of the new *Gaillardia* are bright red and yellow bi-colored whereas ray florets of plants of the female parent selection are orange and yellow bi-colored.

Plants of the new *Gaillardia* can be compared to plants of *Gaillardia* x *grandiflora* 'Kiegalpea', disclosed in U.S. Plant Pat. No. 20,717. In side-by-side comparisons, plants of the new *Gaillardia* differ from plants of 'Kiegalpea' in the following characteristics:

1. Ray florets of plants of the new *Gaillardia* are spoon-shaped whereas ray florets of plants of 'Kiegalpea' are ligulate in shape.
2. Ray florets of plants of the new *Gaillardia* are bright red and yellow bi-colored whereas ray florets of plants of 'Kiegalpea' are yellow in color with an orange-colored ring.

Plants of the new *Gaillardia* can also be compared to plants of *Gaillardia* x *grandiflora* 'Kiegaldab', disclosed in U.S. Plant Pat. No. 20,718. In side-by-side comparisons, plants of the new *Gaillardia* differ from plants of 'Kiegaldab' in the following characteristics:

1. Ray florets of plants of the new *Gaillardia* are spoon-shaped whereas ray florets of plants of 'Kiegaldab' are ligulate in shape.
2. Ray florets of plants of the new *Gaillardia* are bright red and yellow bi-colored whereas ray florets of plants of 'Kiegaldab' are dark burgundy and yellow bi-colored.

BRIEF DESCRIPTION OF THE PHOTOGRAPH

The accompanying colored photograph illustrates the overall appearance of the new *Gaillardia* plant 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 *Gaillardia* plant.

The photograph is a side perspective view of a typical flowering plant of 'Dogailspinmarcopsun' grown in a container.

DETAILED BOTANICAL DESCRIPTION

The aforementioned photograph and following observations and measurements describe plants grown in 17-cm containers during the summer in an outdoor nursery in Aalsmeer, The Netherlands and under cultural practices typical of commercial *Gaillardia* production. During the production of the plants, day temperatures averaged 22° C. and night temperatures averaged 17° C. Plants were pinched one week after planting and were three months old when the photograph was taken and 28 weeks old when the description was taken. In the following description, color references are made to The Royal Horticultural Society Colour Chart, 2007 Edition, except where general terms of ordinary dictionary significance are used.

Botanical classification: *Gaillardia aristata* 'Dogailspinmarcopsun'.

Parentage:

Female, or seed, parent.—Proprietary selection of *Gaillardia aristata* identified as code number GA14-000037-002, not patented.

Male, or pollen, parent.—Unknown proprietary selection of *Gaillardia aristata*, not patented.

Propagation:

Type.—Terminal vegetative cuttings.

Time to initiate roots, summer.—About twelve days at temperatures about 26° C.

Time to initiate roots, winter.—About two weeks at temperatures about 23° C.

Time to produce a rooted young plant, summer.—About two weeks at temperatures about 23° C.

Time to produce a rooted young plant, winter.—About 16 days at temperatures about 18° C.

Root description.—Medium in thickness, fibrous; typically white to 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.—Moderately freely branching, medium density.

Plant description:

Plant and growth habit.—Herbaceous perennial; compact and mounded plant habit; vigorous growth habit and rapid growth rate; freely branching habit with about eight primary branches each with about six secondary branches developing per plant; dense and bushy appearance.

Plant height.—About 30 cm.

Plant width.—About 43 cm.

Lateral branch description.—Length: About 19 cm. Diameter: About 5 mm. Internode length: About 3 cm. Strength: Strong. Aspect: Upright to about 60° from vertical. Texture and luster: Pubescent; glossy. Color: Close to 145A.

Leaf description.—Arrangement: Alternate, simple; sessile. Length: About 14 cm. Width: About 3.5 cm. Shape: Lanceolate. Apex: Acute. Base: Cuneate. Margin: Entire or serrate. Texture and luster, upper and lower surfaces: Slightly pubescent, rough; glossy. Venation pattern: Pinnate. Color: Developing leaves, upper and lower surfaces: Close to 137C. Fully developed leaves, upper surface: Close to 137C; venation, close to 138D. Fully developed leaves, lower surface: Close to 137C; venation, close to 143C.

Inflorescence description:

Appearance.—Single inflorescence form with ray and disc florets; inflorescences held mostly upright on strong peduncles; ray and disc florets develop acropetally on a capitulum.

Frangrance.—Faintly fragrant; pleasant.

Flowering response.—Plants begin flowering about 16 weeks after planting; plants flower naturally during June and July in The Netherlands.

Postproduction longevity.—Inflorescences maintain good substance for about eight to ten weeks on the plant; inflorescences not persistent.

Quantity of inflorescences.—Freely flowering habit, about 65 inflorescences develop per plant during the flowering season.

Inflorescence size.—Diameter: About 5.5 cm to 8 cm. Height: About 3.5 cm. Disc diameter: About 2.5 cm.

Receptacles.—Height: About 3 mm. Diameter: About 9 mm. Color: Close to 155A.

Inflorescence buds.—Height: About 1 cm. Diameter: About 2 cm. Shape: Button-shaped. Texture and luster: Smooth, glabrous; matte. Color: Close to 144B.

Ray florets.—Quantity per inflorescence: About 21 ray 5
florets arranged in a single whorl. Length: About 3
cm. Width: About 1.2 cm. Shape: Spoon-shaped.
Apex: Four to five acute apices. Base: Fused. Mar-
gin: Entire; not undulate. Aspect: Horizontal to
slightly upright. Texture and luster, upper surface: 10
Smooth, glabrous; matte. Texture and luster, lower
surface: Pubescent; glossy. Color: When opening,
upper and lower surfaces: Close to 45A; distally,
close to 14A. Fully opened, upper surface: Close to
45A; distally, close to 14A; venation, close to 45A 15
and 14A; main color becoming closer to 25A with
development. Fully opened, lower surface: Close to
45A; distally, close to 14A; venation, close to 183C;
with development, colors becoming closer to proxi-
mally, close to 45D; mid-section, close to 25A; and 20
distally, close to 14A.

Disc florets.—Quantity per inflorescence: About 132
massed at the center of the receptacle in about nine
whorls. Length: About 1.2 cm. Diameter: About 2
mm. Shape: Fused tubular. Apex: Acuminate. Tex- 25
ture and luster, inner surface: Pubescent; matte.
Texture and luster, outer surface: Smooth, glabrous;
matte. Color: When opening, inner and outer sur-
faces: Close to 45A; towards the apex, close to
143D. Fully opened, inner and outer surfaces: Close 30
to 45A; color becoming closer to 187A with devel-
opment.

Involucral bracts.—Quantity per inflorescence: About
45 arranged in about five whorls. Length: About 2
cm. Width: About 5 mm. Shape: Lanceolate. Apex: 35

Acuminate. Base: Truncate. Margin: Entire. Texture
and luster, upper and lower surfaces: Pubescent;
semi-glossy. Color, upper and lower surfaces: Close
to 138A.

Peduncles.—Length: About 7 cm. Diameter: About 3
mm to 4 mm. Strength: Moderately strong. Texture
and luster: Pubescent; glossy. Color: Close to 145B.

Reproductive organs.—Androecium: Present on disc
florets only. Quantity per floret: Five. Filament
length: About 1 mm. Filament color: Close to 157A.
Anther size: About 1 mm by 5 mm. Anther shape:
Rectangular with a triangular apex. Anther color:
Close to 15A; towards the apex, close to 187A.
Pollen amount: Abundant. Pollen color: Close to
17A. Gynoecium: Present on disc florets only. Quan-
tity per floret: One. Pistil length: About 8 mm.
Stigma diameter: About 1 mm. Stigma shape: Two-
lobed, plumose. Stigma color: Close to 187A. Style
length: About 3 mm. Style color: Close to 145D.
Ovary color: Close to 157A.

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

Pathogen & pest resistance: To date, plants of the new
Gaillardia have not been observed to be resistant to
pathogens and pests common to *Gaillardia* plants.

Garden performance: Plants of the new *Gaillardia* have been
observed to have good garden performance and to tolerate
wind and rain and temperatures ranging from about -37°
C. to about 30° C.

It is claimed:

1. A new and distinct *Gaillardia* plant named 'Dogail-
spinmarcopsun' as illustrated and described.

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