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

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(54) **PORTULACA PLANT NAMED**  
**'DOPORCUPLEM'**

(50) Latin Name: *Portulaca oleracea*  
Varietal Denomination: **Doporcuplem**

(71) Applicant: **DUMMEN GROUP B.V.**, De Lier  
(NL)

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(73) Assignee: **Dümmen Group B.V.**, De Lier (NL)

(\*) 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.: **15/732,822**

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(65) **Prior Publication Data**

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(51) **Int. Cl.**  
*A01H 5/02* (2018.01)  
*A01H 6/00* (2018.01)  
*A01H 6/30* (2018.01)

(52) **U.S. Cl.**  
USPC ..... **Plt./471**  
CPC ..... *A01H 6/00* (2018.05); *A01H 5/02*  
(2013.01); *A01H 6/30* (2018.05)

(58) **Field of Classification Search**  
USPC ..... **Plt./471**  
See application file for complete search history.

(56) **References Cited**

PUBLICATIONS

UPOV hit on *Portulaca* plant named 'Doporcuplem', QZ PBR  
20173406, filed Dec. 27, 2017.\*

\* cited by examiner

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(57) **ABSTRACT**

A new and distinct cultivar of *Portulaca* plant named  
'Doporcuplem', characterized by its upright to low spread-  
ing growth habit; vigorous growth habit; freely branching  
habit; freely flowering habit; and large bright yellow-colored  
flowers.

**1 Drawing Sheet**

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Botanical designation: *Portulaca oleracea*.  
Cultivar denomination: 'DOPORCUPLEM'.

CROSS-REFERENCED TO CLOSELY-RELATED  
APPLICATION

Title: *Portulaca* Plant Named 'Doporcuporze'  
Inventor: Arjan Koot  
Applicant: Dümmen Group B.V.  
Filed: Concurrently with this application

BACKGROUND OF THE INVENTION

The present invention relates to a new and distinct cultivar  
of *Portulaca* plant, botanically known as *Portulaca oleracea*  
and hereinafter referred to by the name 'Doporcuplem'.

The new *Portulaca* plant is a product of a planned  
breeding program conducted by the Inventor in Rheinberg,  
Germany. The objective of the breeding program is to create  
new upright to spreading *Portulaca* plants with numerous  
large attractive flowers.

The new *Portulaca* plant originated from a cross-pollina-  
tion made by the Inventor in Rheinberg, Germany in July,  
2015 of a proprietary selection of *Portulaca oleracea* iden-  
tified as code number RR14-000206-007, not patented, as  
the female, or seed, parent with a proprietary selection of  
*Portulaca oleracea* identified as code number RR14-  
000501-001, not patented, as the male, or pollen, parent. The  
new *Portulaca* plant was discovered and selected by the  
Inventor as a flowering plant from within the progeny of the

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stated cross-pollination in a controlled greenhouse environ-  
ment in Rheinberg, Germany in May, 2017.

Asexual reproduction of the new *Portulaca* plant by  
vegetative terminal cuttings in a controlled greenhouse  
environment in Rheinberg, Germany since June, 2017, has  
shown that the unique features of this new *Portulaca* plant  
are stable and reproduced true to type in successive genera-  
tions.

SUMMARY OF THE INVENTION

Plants of the new *Portulaca* 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 temperature  
and light intensity without, however, any variance in geno-  
type.

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

1. Upright to low spreading growth habit.
2. Vigorous growth habit.
3. Freely branching habit.
4. Freely flowering habit.
5. Large bright yellow-colored flowers.
6. Good garden performance.

Plants of the new *Portulaca* can be compared to plants of  
the female parent selection. Plants of the new *Portulaca*  
differ primarily from plants of the female parent selection in  
the following characteristics:



1. Plants of the new *Portulaca* have larger flowers than plants of the female parent selection.
2. Plants of the new *Portulaca* and the female parent selection differ in flower color as plants of the female parent selection have pink-colored flowers.

Plants of the new *Portulaca* can be compared to plants of the male parent selection. Plants of the new *Portulaca* differ primarily from plants of the male parent selection in the following characteristics:

1. Plants of the new *Portulaca* are more upright than and not as trailing as plants of the male parent selection.
2. Plants of the new *Portulaca* and the male parent selection differ in flower color as plants of the male parent selection have light orange-colored flowers.

Plants of the new *Portulaca* can be compared to plants of *Portulaca oleracea* ‘Doporcuporze’, disclosed in U.S. Plant patent application Ser. No. 15/732,824. Plants of the new *Portulaca* differ primarily from plants of ‘Doporcuporze’ in flower color as plants of ‘Doporcuporze’ have light red-colored flowers.

Plants of the new *Portulaca* can also be compared to plants of the *Portulaca oleracea* ‘SAKPOR004’, disclosed in U.S. Plant Pat. No. 24,601. In side-by-side comparisons, plants of the new *Portulaca* differ primarily from plants of ‘SAKPOR004’ in the following characteristics:

1. Plants of the new *Portulaca* are more upright than and not as trailing as plants of ‘SAKPOR004’.
2. Plants of the new *Portulaca* are larger than plants of ‘SAKPOR004’.
3. Plants of the new *Portulaca* have larger leaves than plants of ‘SAKPOR004’.
4. Plants of the new *Portulaca* have larger flowers than plants of ‘SAKPOR004’.

#### BRIEF DESCRIPTION OF THE PHOTOGRAPH

The accompanying colored photograph illustrates the overall appearance of the new *Portulaca* 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 *Portulaca* plant. The photograph comprises a side perspective view of a typical flowering plant of ‘Doporcuplem’ grown in a container.

#### DETAILED BOTANICAL DESCRIPTION

The aforementioned photograph and following observations, measurements and values describe plants grown during the spring and summer in 22-cm containers in a glass-covered greenhouse in Rheinberg, Germany and under cultural practices typical of commercial *Portulaca* production. During the production of the plants, day and night temperatures averaged 18° C. and light levels averaged 4,500 lux. Plants were pinched one time three weeks after planting and were 20 weeks old when the photograph and the description were taken. In the 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: *Portulaca oleracea* ‘Doporcuplem’.

Parentage:

*Female, or seed, parent.*—Proprietary selection of *Portulaca oleracea* identified as code number RR14-000206-007, not patented.

*Male or pollen parent.*—Proprietary selection of *Portulaca oleracea* identified as code number RR14-000501-001, not patented.

Propagation:

*Type.*—By cuttings.

*Time to initiate roots, summer.*—About five days at temperatures about 20° C.

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

*Time to produce a rooted young plant, summer.*—About three weeks at temperatures about 20° C.

*Time to produce a rooted young plant, winter.*—About four weeks at temperatures about 20° C.

*Root description.*—Fine, fibrous; close to 159C in color.

*Rooting habit.*—Freely branching; dense.

Plant description:

*Plant and growth habit.*—Upright to low spreading plant habit; vigorous growth habit.

*Branching habit.*—Freely branching habit about 200 to 250 lateral branches potentially developing per plant; pinching enhances branching potential.

*Plant height, soil level to top of foliar plane.*—About 22.5 cm.

*Plant height, soil level to top of floral plane.*—About 24 cm.

*Plant diameter (area of spread).*—About 72 cm.

Lateral branch description:

*Length.*—About 34 cm.

*Diameter.*—About 3 mm.

*Internode length.*—About 2 cm.

*Strength.*—Moderately strong.

*Texture and luster.*—Smooth, glabrous; glossy.

*Color, developing.*—Close to 146B; at the internodes, close to 146B.

*Color, fully developed.*—Close to 152A overlain with close to 177A; at the internodes, close to 146B.

Leaf description:

*Arrangement.*—Alternate, simple.

*Length.*—About 3 cm.

*Width.*—About 1.7 cm.

*Shape, developing leaves.*—Elliptic.

*Shape, fully expanded leaves.*—Obovate.

*Apex.*—Cuspidate.

*Base.*—Attenuate.

*Margin.*—Entire.

*Texture and luster upper and lower surfaces.*—Smooth, glabrous; fleshy, succulent; glossy.

*Venation pattern.*—Pinnate.

*Color.*—Developing leaves, upper surface: Close to 137B. Developing leaves, lower surface: Close to 137C. Fully expanded leaves, upper surface: Close to 137B; venation, close to 150C. Fully expanded leaves, lower surface: Close to 147C; venation, close to 150C.

*Petioles.*—Length: About 2 mm. Diameter: About 1.5 mm. Strength: Moderately strong. Texture and luster,



upper and lower surfaces: Smooth, glabrous; semi-glossy. Color, upper and lower surfaces: Close to 153A.

Flower description:

*Flower arrangement*.—Single rotate flowers; freely flowering habit with about 130 to 150 flower buds and flowers per plant at one time; flowers face mostly upright to outwardly.

*Fragrance*.—None detected.

*Natural flowering season*.—Plants begin flowering about twelve weeks after planting; in the garden, plants flower continuously from spring until autumn in Northern Europe.

*Flower longevity*.—Flowers last about one day on the plant; flowers not persistent.

*Flower diameter*.—About 4.3 cm.

*Flower length (height)*.—About 1.6 cm.

*Flower buds*.—Length: About 1.3 cm. Diameter: About 7 mm. Shape: Ovoid. Texture and luster: Smooth, glabrous; glossy. Color: Close to 144A.

*Petals*.—Quantity per flower and arrangement: About four to seven petals in a single whorl. Length: About 2.1 cm. Width: About 1.9 cm. Shape: Obovate. Apex: Emarginate. Base: Truncate. Margin: Entire. Texture and luster, upper and lower surfaces: Smooth, glabrous; matte. Color: When opening, upper surface: Close to 17A. When opening, lower surface: Close to 14B. Fully opened, upper surface: Close to 14A; color does not change with development. Fully opened, lower surface: Close to 14B; color does not change with development.

*Sepals*.—Quantity per flower: Typically two fused into a tubular calyx. Calyx length: About 1.1 cm. Calyx diameter: About 6.5 mm. Length: About 1.1 cm. Width: About 6 mm. Shape: Ovate. Apex: Acuminate. Margin: Entire. Texture and luster, upper and

lower surfaces: Smooth, glabrous; matte. Color, developing and fully developed, upper and lower surfaces: Close to 144B.

*Peduncles*.—Length: About 6.5 cm. Diameter: About 2 mm. Angle: Mostly upright. Strength: Moderately strong. Texture and luster: Smooth, glabrous; semi-glossy. Color: Close to 146B and 152A overlain with close to 177A.

*Reproductive organs*.—Androecium: Quantity of stamens per flower: About 40 to 60. Filament length: About 5 mm to 7 mm. Filament color: Close to 9A. Anther shape: Oval, bi-lobed. Anther length: About 0.5 mm. Anther color: Close to 21B. Amount of pollen: Abundant. Pollen color: Close to 23A. Gynoecium: Pistil length: About 1.1 cm. Style length: About 9 mm. Style color: Close to 9A. Stigma color: Close to 9A. Ovary color: Close to 144C. Fruits: Quantity produced per plant: About 700 to 1,800 per plant at the end of the flowering season. Length: About 5 mm. Diameter: About 5.2 mm. Texture: Smooth, glabrous. Color: Close to 146D. Seeds: Quantity per flower: About 12 to 40. Length: About 1 mm. Diameter: About 1 mm. Texture: Smooth, glabrous. Color: Close to 202B and 200B.

Garden performance: Plants of the new *Portulaca* have been observed to have good garden performance, to tolerate temperatures ranging from about 7° C. to about 35° C. and to be suitable for USDA Hardiness Zone 11.

Pathogen & pest resistance: Plants of the new *Portulaca* have not been shown to be resistant to pathogens and pests common to *Portulaca* plants to date.

It is claimed:

1. A new and distinct *Portulaca* plant named ‘Doporcuplem’ as illustrated and described.

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