

**(12) United States Plant Patent**
Koning**(10) Patent No.: US PP30,274 P2****(45) Date of Patent: Mar. 5, 2019**(54) *DIANTHUS* PLANT NAMED ‘KOND1044K2’(56) **References Cited**(50) Latin Name: *Dianthus hybrida*
Varietal Denomination: **KonD1044K2**

PUBLICATIONS

(71) Applicant: **Geu Koning**, Westerbork (NL)<https://www.ballseed.com/PlantInfo/?phid>. “BallSeed—Plant Information” Retrieved from the Internet Sep. 5, 2018 (1 page).*(72) Inventor: **Geu Koning**, Westerbork (NL)

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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.

Primary Examiner — Susan McCormick Ewoldt(74) *Attorney, Agent, or Firm* — C. A. Whealy(21) Appl. No.: **15/732,313**(57) **ABSTRACT**(22) Filed: **Oct. 23, 2017**A new and distinct cultivar of *Dianthus* plant named ‘KonD1044K2’, characterized by its uniformly mounding and upright to broadly spreading plant habit; dense and bushy appearance; relatively long dark green-colored leaves; freely and remontant flowering habit; relatively large red pink-colored single flowers with purple-colored central ring and white-colored throat; vernalization treatment not required for flowering; and good container and garden performance.(51) **Int. Cl.**
A01H 5/02 (2018.01)(52) **U.S. Cl.**
USPC **Plt./281**(58) **Field of Classification Search**
USPC Plt./272, 281
See application file for complete search history.**2 Drawing Sheets****1**Botanical designation: *Dianthus hybrida*.

Cultivar denomination: ‘KonD1044K2’.

BACKGROUND OF THE INVENTION

The present invention relates to a new and distinct cultivar of *Dianthus* plant, botanically known as *Dianthus hybrida*, grown commercially as a container and garden plant and hereinafter referred to by the name ‘KonD1044K2’.

The new *Dianthus* plant is a product of a planned breeding program conducted by the Inventor in Westerbork, The Netherlands. The objective of the breeding program is to create new hardy *Dianthus* plants with remontant flowering habit with good container and garden performance.

The new *Dianthus* plant originated from a cross-pollination in May, 2009 of a proprietary selection of *Dianthus hybrida* identified as code number E1408, not patented, as the female, or seed, parent with a proprietary selection of *Dianthus hybrida* identified as code number D900, not patented, as the male, or pollen, plant. The new *Dianthus* plant was discovered and selected by the Inventor in July, 2010 as a single flowering plant from within the progeny of the stated cross-pollination in a controlled environment in Westerbork, The Netherlands.

Asexual reproduction of the new *Dianthus* plant by vegetative terminal cuttings propagated in a controlled greenhouse environment in Chicago, Ill. since September, 2010 has shown that the unique features of this new *Dianthus* plant are stable and reproduced true to type in successive generations of asexual reproduction.

SUMMARY OF THE INVENTION

Plants of the new *Dianthus* have not been observed under all possible combinations of environmental conditions and cultural practices. The phenotype may vary somewhat with

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variations in environmental conditions such as temperature 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 ‘KonD1044K2’. These characteristics in combination distinguish ‘KonD1044K2’ as a new and distinct *Dianthus* plant:

1. Uniformly mounding and upright to broadly spreading plant habit; dense and bushy appearance.
2. Relatively long dark green-colored leaves.
3. Freely and remontant flowering habit.
4. Relatively large red pink-colored single flowers with purple-colored central ring and white-colored throat.
5. No vernalization requirement for flowering.
6. Good container and garden performance.

Plants of the new *Dianthus* differ primarily from plants of the female parent selection in the following characteristics:

1. Plants of the new *Dianthus* are more compact than and not as vigorous as plants of the female parent selection.
2. Plants of the new *Dianthus* have larger flowers than plants of the female parent selection.

Plants of the new *Dianthus* differ primarily from plants of the male parent selection in the following characteristics:

1. Plants of the new *Dianthus* have larger flowers than plants of the male parent selection.
2. Plants of the new *Dianthus* and the male parent selection differ in flower color as plants of the male parent selection have light red purple-colored flowers.

Plants of the new *Dianthus* can also be compared to plants of *Dianthus caryophyllus* ‘Kahori’, not patented. In side-by-side comparisons, plants of the new *Dianthus* differ primarily from plants of ‘Kahori’ in the following characteristics:

1. Plants of the new *Dianthus* are more vigorous than plants of ‘Kahori’.

2. Plants of the new *Dianthus* have larger flowers than plants of 'Kahori'.
3. Plants of the new *Dianthus* rebloom more consistently than plants of 'Kahori'.

BRIEF DESCRIPTION OF THE PHOTOGRAPHS

The accompanying photographs illustrate the overall appearance of the new *Dianthus* plant showing the colors as true as it is reasonably possible to obtain in colored reproductions of this type. Colors in the photographs may differ slightly from the color values cited in the detailed botanical description which accurately describe the colors of the new *Dianthus* plant.

The photograph on the first sheet is a side perspective view of a typical flowering plant of 'KonD1044K2' grown in a container.

The photograph on the second sheet is a close-up view of a typical flowering plant of 'KonD1044K2'.

DETAILED BOTANICAL DESCRIPTION

Plants used in the aforementioned photograph and following observations and measurements were grown during the winter and spring in one-gallon containers in a glass-covered greenhouse in Elburn, Ill. and under cultural practices typical of commercial container *Dianthus* production. During the final production phase of the plants, day temperatures ranged from 18° C. to 21° C. and night temperatures ranged from 13° C. to 16° C. Plants were pinched two times during the propagation phase and were eight months old when the photographs and description were 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: *Dianthus hybrida* 'KonD1044K2'.
Parentage:

Female, or seed, parent.—Proprietary selection of *Dianthus hybrida* identified as code number E1408, not patented.

Male, or pollen, parent.—Proprietary selection of *Dianthus hybrida* identified as code number D900, not patented.

Propagation:

Type.—By vegetative terminal cuttings.

Time to initiate roots, summer.—About one week at temperatures ranging from 20° C. to 21° C.

Time to initiate roots, winter.—About two weeks at temperatures about 20° C. to 21° C.

Time to produce a rooted young plant, summer and winter.—About six to seven weeks at temperatures ranging from 7° C. to 16° C.

Root description.—Fine, fibrous; white in color, actual color of the roots dependent on substrate composition, water quality, fertilizer, substrate temperature and age of roots.

Rooting habit.—Freely branching; medium density.

Plant description:

Plant and growth habit.—Herbaceous perennial, typically grown as a container and garden plant; uniformly mounding, upright to broadly spreading plant habit; vigorous growth habit.

Plant height, soil level to top of foliar plane.—About 23 cm.

Plant height, soil level to top of floral plane.—About 26 cm.

Plant diameter or spread.—About 40 cm.

Lateral branches.—Branching habit: Freely basal branching habit with numerous primary lateral stems; each primary lateral stem with secondary lateral stems potentially forming at every node. Length, primary lateral stems: About 23 cm. Length, secondary lateral stems: About 10 cm to 15 cm. Diameter, primary lateral stems: Thick, about 4.5 mm. Diameter, secondary lateral stems: About 2 mm. Internode length, proximally: About 4.5 cm. Strength: Strong, flexible. Aspect, primary lateral stems: Mostly upright. Aspect, secondary lateral stems: About 30° to 40° from primary lateral stem axis. Cross-section: Round, hollow. Texture and luster: Smooth, glabrous; matte. Color: Close to N137A; thin waxy cuticle, close to 189A.

Leaf description:

Arrangement.—Opposite, simple; sessile.

Length.—Relatively long, about 8 cm.

Width.—About 9 mm.

Shape.—Lanceolate.

Apex.—Narrowly acute.

Base.—Attenuate; decurrent.

Margin.—Entire.

Texture and luster, upper and lower surfaces.—Smooth, glabrous; matte.

Venation pattern.—Parallel.

Color.—Developing leaves, upper surface: Close to 146A. Developing leaves, lower surface: Close to 146A to 146B. Fully expanded leaves, upper surface: Close to N137A; thin waxy cuticle, close to 189A; venation, close to N137A. Fully expanded leaves, lower surface: Close to N137B; thin waxy cuticle, close to 189A; venation, close to N137B.

Flower description:

Flower form and flowering habit.—Terminal and axillary single flowers arranged singly or in pairs; freely flowering habit with numerous flowers developing during the flowering season; flowers face mostly upright.

Natural flowering season.—Consistent remontant flowering habit from the early spring until the autumn in northern Illinois; plants do not require a vernalization treatment to initiate flowering.

Fragrance.—Faintly fragrant; clove-like, sweet.

Flower buds.—Length: About 2 cm. Diameter: About 5 mm. Shape: Oblong; styles slightly extruded. Texture and luster: Smooth, glabrous; matte. Color: Close to 146A; towards the base, close to 144A.

Flower diameter.—Relatively large, about 3.4 cm.

Flower depth.—About 2.5 cm.

Petals.—Quantity and arrangement: Five petals arranged in a single whorl. Length: About 3.3 cm. Width: About 1.9 cm; at the base, about 1 mm. Shape: Spatulate, fan-shaped. Apex: Praemorse, rounded. Base: Elongated, tapering to a point. Margin: Entire. Texture and luster, upper and lower surfaces: Smooth, glabrous; velvety; matte. Color: When opening, upper surface: Close to 61A; towards the apex and margins, close to NN155C. When opening, lower surface: Close to NN155C; red purple, close to 61A, showing through from upper surface. Fully opened, upper surface: Close to 61A to

61B; towards the apex and margins, close to NN155D; central ring, close to N79A; at the base, close to NN155C; throat, close to NN155C; venation, similar to lamina; under lower light and temperature conditions, center color is closer to 61D; color does not fade with development. Fully opened, lower surface: Close to NN155C; red purple, close to 61A to 61B, showing through from upper surface; tube, close to NN155C; venation, similar to lamina; color does not fade with development.

Sepals.—Quantity and arrangement: Five sepals arranged in a single whorl; proximal 70% portion of the sepals are fused into a tubular-shaped calyx. Length: About 2 cm. Sepal width, at base of “free” portion: About 4 mm. Shape: Oblong. Apex: Acute. Margin: Entire. Texture and luster, upper and lower surfaces: Smooth, glabrous; matte. Color, inner surface: Close to 144A. Color, outer surface: Close to 146A; towards the base, close to 144A.

Peduncles.—Length: About 5 cm. Diameter: About 2 mm. Strength: Strong, flexible. Aspect: Mostly erect to about 30° from vertical. Texture and luster: Smooth, glabrous; matte. Color: Close to N137A; thin waxy cuticle, close to 189A.

Pedicels (when flowers arranged in pairs).—Length: About 3 cm to 4 cm. Diameter: About 1.5 mm. Strength: Strong, flexible and wiry. Aspect: About

30° from the peduncle axis. Texture and luster: Smooth, glabrous; matte. Color: Close to N137A; thin waxy cuticle, close to 189A.

Reproductive organs.—Stamens: Quantity: About five to ten stamens per flower. Filament length: About 5 mm. Filament color: Close to NN155C. Anther length: About 1 mm. Anther shape: Oblong. Anther color: Close to 10D. Pollen: None observed. Pistils: Quantity: About two per flower. Pistil length: About 3.1 cm. Stigma shape: Pointed, curled. Stigma color: Close to NN155C. Style length: About 2 cm. Style color: Close to NN155C. Ovary shape: Oblong. Ovary texture: Smooth, glabrous. Ovary color: Close to 145C to 145D. Fruits and seeds: Fruit and seed development have not been observed on plants of the new *Dianthus* to date.

Disease & pest resistance: Plants of the new *Dianthus* have not been observed to be resistant to pathogens and pests common to *Dianthus* plants.

Garden performance: Plants of the new *Dianthus* have been observed to have good garden performance and to tolerate wind, rain and to be suitable for USDA Hardiness Zones 5a to 9a.

It is claimed:

1. A new and distinct *Dianthus* plant named ‘KonD1044K2’ as illustrated and described.

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