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**Klemm et al.**

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- (54) **DIANTHUS PLANT NAMED ‘KLEDG20461’**  
(50) Latin Name: *Dianthus L.*  
Varietal Denomination: **KLEDG20461**  
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See application file for complete search history.

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- (57) **ABSTRACT**  
A new *Dianthus* plant designated ‘KLEDG20461’ particularly distinguished by double purple flowers with white borders and very early flowering, is disclosed.

#### 1 Drawing Sheet

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#### CROSS-REFERENCE TO RELATED APPLICATIONS

This application claims priority to and the benefit of U.S. Provisional Application No. 62/973,972, filed on Nov. 4, 2019, the entire contents of which are incorporated herein by reference for all purposes.

Genus and species: *Dianthus L.*  
Variety denominations: ‘KLEDG20461’.

#### BACKGROUND OF THE NEW PLANT

The present invention comprises a new and distinct variety of *Dianthus*, botanically known as *Dianthus L.*, and hereinafter referred to by the variety name ‘KLEDG20461’. ‘KLEDG20461’ originated from a naturally-occurring, whole plant mutation from the *Dianthus* parent ‘KLEDG12163’ (U.S. Plant Pat. No. 24,707) in June 2018 in The Netherlands.

In September 2018, ‘KLEDG20461’ was first vegetatively propagated by vegetative stem cuttings in Stuttgart Germany, and subsequently in Latina, Italy. ‘KLEDG20461’ was found to reproduce true to type in successive generations of asexual propagation in Stuttgart, Germany and Latina, Italy via vegetative stem cuttings.

#### SUMMARY

The following are the most outstanding and distinguishing characteristics of ‘KLEDG20461’ when grown under normal horticultural practices in Stuttgart, Germany.

1. Double, purple flowers with white borders; and
2. Very early flowering.

#### DESCRIPTION OF THE PHOTOGRAPH

This new *Dianthus* plant is illustrated by the accompanying photograph of a 30-week-old plant taken in May 2019

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and grown in a greenhouse in Stuttgart, Germany. The colors shown are as true as can be reasonably obtained by conventional photographic procedures.

The photograph is a whole plant photo of ‘KLEDG20461’ and shows the foliage, buds, and flowers.

#### DESCRIPTION

The following detailed descriptions set forth the distinctive characteristics of ‘KLEDG20461’. The data which define these characteristics were collected from asexual reproductions carried out in Stuttgart, Germany. Data was collected in May 2019 on 7-month old plants grown in a plastic greenhouse. Color references are to The R.H.S. Colour Chart of The Royal Horticultural Society of London (R.H.S.), 5<sup>th</sup> edition (2007).

#### Classification:

Family.—Caryophyllaceae.

Botanical.—*Dianthus L.*

Common.—Pot carnation.

Designation.—‘KLEDG20461’.

Parentage: Mutation parent ‘KLEDG12163’ (U.S. Plant Pat. No. 24,707).

#### Plant:

Propagation type.—Vegetative cuttings via stem, terminal cuttings.

Time to produce a rooted young plant.—10 to 14 days.

Root description.—Fine roots, young roots are RHS 161D, mature roots are RHS 199C.

Rooting habit shape.—Lanceolate.

Plant form.—Upright.

Plant height.—15 cm to 17 cm.

Plant diameter or spread.—22 cm to 25 cm.

#### Lateral branches/stems:

Shape of the branch in cross-section.—Moderately angular.

Hollowness of the branch.—Absent, solid.



Length.—7 cm to 10 cm.  
Diameter.—4 cm to 7 cm.  
Internode length.—2 cm to 3 cm.  
Internode quantity per branch.—3 to 5.  
Number of internodes per branch/stem.—3 to 5. 5  
Node length.—0.2 cm to 0.4 cm.  
Node diameter.—0.2 cm to 0.4 cm.  
Texture.—Smooth.  
Color.—RHS 146B.  
Flower clustering on the lateral branch.—In some 10  
lateral branches.  
Foliage:  
Arrangement.—Opposite.  
Length.—4 cm to 5 cm.  
Width.—0.3 cm to 0.5 cm.  
Shape.—Lanceolate. 15  
Apex.—Acute.  
Base.—Obtuse.  
Margin.—Entire.  
Texture (both upper and lower surfaces).—Smooth.  
Cross-section of the leaf.—Moderately concave. 20  
Curvature of the leaf.—Absent.  
Glaucosity of the leaf.—Weak.  
Leaf color (both immature and mature).—Upper sur-  
face: RHS 138A for immature and RHS 137A for 25  
mature. Lower surface: RHS 138A for immature and  
RHS 137A for mature.  
Venation pattern.—Absent.  
Flowers:  
Flower type and habit.—Semi-double, small sprays, 30  
round.  
Fragrance.—Present.  
Position of the flowers compared to the foliage of the  
plant.—Moderately above.  
Profile of both the upper and lower part in the lateral  
view.—Convex. 35  
Diameter of the flower.—2.3 cm to 2.7 cm.  
Natural flowering season.—Spring to autumn.  
Position of flowers relative to the foliage.—Moderately  
above.  
Number of flowers per spray.—3 to 5.  
Flower longevity on the plant.—14 to 18 days. 40  
Buds:  
Length.—0.5 cm to 1.5 cm.  
Diameter.—0.3 cm to 0.4 cm.  
Shape.—Elliptic.  
Color.—RHS 138A. 45  
Extrusion of the styles at the bud stage.—Absent.  
Corolla:  
Quantity of petals and arrangement.—10 to 15 and  
arranged in several whorls.  
Corolla height.—0.8 cm to 1.5 cm. 50  
Petal length.—2 cm to 2.8 cm.  
Petal width.—1.0 cm to 1.5 cm.  
Petal shape.—Spoon-shaped.  
Petal apex.—Obtuse.  
Petal base.—Acute.  
Petal margin.—Serrated. 55  
Depth of petal margin.—Shallow.  
Petal texture (both upper and lower surfaces).—  
Smooth.  
Petal color (both immature and mature).—Upper sur-  
face: RHS 81C with RHS 72A center. Lower surface: 60  
RHS 75D.  
Macule.—Present; around 0.5 cm size and RHS 72A.  
Calyx.—Quantity of sepals and arrangement: Com-  
posed of 5 sepals. Longitudinal axis of the lobes of  
the calyx: Straight. Shape: Campanulate. 65

Calyx height.—1.2 cm to 1.7 cm.  
Calyx diameter (at the apex).—0.4 cm to 0.6 cm.  
Sepal texture (both upper and lower surfaces).—  
Smooth.  
Sepal color.—Upper surface: RHS 137A. Lower sur-  
face: RHS 137D.  
Position of the outer lobes of the epicalyx in relation to  
the calyx.—Adpressed and free.  
Apex shape of the outer lobes of the epicalyx.—Acute.  
Tip length of the outer lobes of the epicalyx.—Short.  
Apex shape of the inner lobes of the epicalyx.—Me-  
dium acuminate.  
Tip length of the innerlobes of the epicalyx.—Short.  
Peduncles:  
Length.—5 cm to 8 cm. 15  
Diameter.—0.2 cm.  
Strength.—Moderate.  
Texture.—Smooth.  
Color.—RHS 146B.  
Reproductive organs: 20  
Stamens.—Quantity per flower: Moderate. Filament  
length: 0.5 cm to 0.8 cm. Filament color: RHS 157B.  
Anther length: 0.1 cm. Anther diameter: 0.05 cm.  
Anther color: RHS 155B. Pollen amount: Absent.  
Pistils.—Not observed. 25  
Fruit and seed set: Not observed.  
Disease and pest/insect resistance: No disease and pest/  
insect resistance observed.

COMPARISON OF ‘KLEDG20461’ WITH  
PARENTAL LINE AND KNOWN VARIETY

‘KLEDG20461’ is distinguished from the mutation parent  
as described in Table 1.

TABLE 1

Comparison with Parental Line		
Characteristic	‘KLEDG20461’	Mutation Parent ‘KLEDG12163’
Main flower color	RHS 81C	RHS 75B
Secondary flower color	RHS 72A	RHS 71A
Flower color pattern	Bi-color	Bi-color

‘KLEDG20461’ can be compared to the commercial  
*Dianthus* variety ‘KLEDG18305’ (U.S. Plant Pat. No.  
31,019). Differences between the varieties are described in  
Table 2.

TABLE 2

Comparison with Similar Variety		
Characteristic	‘KLEDG20461’	‘KLEDG18305’
Flower type	Double	Single
Flower color	Purple with white border	Pink with purple ring
Flowering time	Very early; around 195 days after potting (cold cultivation)	Early-medium; around 205 days after petting (cold cultivation)

We claim:  
1. A new and distinct variety of *Dianthus* plant designated  
‘KLEDG20461’ as illustrated and described herein.

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