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

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(54) **DIANTHUS PLANT NAMED ‘KLEDP23440’**

(50) Latin Name: ***Dianthus caryophyllus* L.**
Varietal Denomination: **KLEDP23440**

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patent is extended or adjusted under 35
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(52) **U.S. Cl.**
USPC **Plt./273**
CPC **A01H 6/305** (2018.05)

(58) **Field of Classification Search**

USPC Plt./272, 273
CPC A01H 5/02
See application file for complete search history.

(56) **References Cited**

PUBLICATIONS

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(57) **ABSTRACT**

A new *Dianthus* plant designated ‘KLEDP23440’ particu-
larly distinguished by white and purple flowers, good ear-
liness, and upright plant with long flower stems, is disclosed.

1 Drawing Sheet

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Genus and species: *Dianthus caryophyllus* L.
Variety denomination: ‘KLEDP23440’.

BACKGROUND OF THE NEW PLANT

The present invention comprises a new and distinct vari-
ety of *Dianthus*, botanically known as *Dianthus caryophyl-
lus* L. and hereinafter referred to by the variety name
‘KLEDP23440’. ‘KLEDP23440’ originated from an open
pollination conducted in 2017 in Stuttgart, Germany
between the proprietary *Dianthus* female parent
‘KLEDP16194’ (unpatented) and an unknown male. The
seeds from this cross were sown in Stuttgart, Germany and
a single plant was selected in May 2018.

In August 2018, ‘KLEDP23440’ was first vegetatively
propagated by vegetative stem cuttings in Stuttgart, Ger-
many. ‘KLEDP23440’ was found to reproduce true to type
in successive generations of asexual propagation in Stutt-
gart, Germany via vegetative cuttings.

SUMMARY

The following are the most outstanding and distinguish-
ing characteristics of ‘KLEDP23440’ when grown under
normal horticultural practices in Stuttgart, Germany.

1. White and purple flowers;
2. Good earliness; and
3. Upright plant with long flower stems.

DESCRIPTION OF THE PHOTOGRAPH

This new *Dianthus* plant is illustrated by the accompa-
nying photograph of a 14-week-old plant taken in May 2022
and grown in a greenhouse in Stuttgart, Germany. The colors

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shown are as true as can be reasonably obtained by conven-
tional photographic procedures. The photograph is a whole
plant photograph of ‘KLEDP23440’ and shows the foliage,
buds, and flowers.

DESCRIPTION

The following detailed descriptions set forth the distinc-
tive characteristics of ‘KLEDP23440’. The data which
define these characteristics were collected from asexual
reproductions carried out in Stuttgart, Germany. Data was
collected in May 2024 from plants planted in September
2023 that were 23 weeks old and grown in a greenhouse.
Color references are to The R.H.S. Colour Chart of The
Royal Horticultural Society of London (R.H.S.), 5th edition
(2007).

Classification:

Family.—Caryophyllaceae.
Botanical.—*Dianthus caryophyllus* L.
Designation.—‘KLEDP23440’.
Type.—Pot carnation.

Parentage:

Female parent.—*Dianthus* ‘KLEDP16194’ (un-
patented).
Male parent.—Unknown.

Plant:

Propagation type.—Vegetative cuttings.
Time to produce a rooted young plant.—28 days.
Root description.—Fine roots, RHS 155C.
Rooting habit shape.—Lanceolate.
Plant form.—Upright.
Plant height.—24.0 cm.
Plant diameter or spread.—39.0 cm.

Lateral branches/stems:

Shape of the branch in cross-section.—Circular.
Hollowness of the branch.—Absent.
Length.—26 cm.
Diameter.—0.3 cm.
Stem thickness.—Thick.
Internode length.—5.6 cm.
Internode quantity per branch.—5.
Number of internodes per branch/stem.—5.
Node length.—0.5 cm.
Node diameter.—0.5 cm.
Texture.—Smooth.
Color.—RHS 137A.
Flower clustering on the lateral branch.—None.

Foliage:

Arrangement.—Opposite.
Length.—6.1 cm.
Width.—0.5 cm.
Shape.—Obovate.
Apex.—Acute.
Base.—Obtuse.
Margin.—Entire.
Texture (both upper and lower surfaces).—Smooth.
Cross-section of the leaf.—Moderately concave.
Curvature of the leaf.—Absent.
Glaucosity of the leaf.—Weak.
Leaf color (both immature and mature).—Immature:
Upper surface: RHS N137C. Lower surface: RHS
N137A. Mature: Upper surface: RHS N137A. Lower
surface: RHS 137A.
Venation pattern.—Absent.

Flowers:

Flower type and habit.—Double flower.
Fragrance.—Present, sweet and fresh.
*Position of the flowers compared to the foliage of the
plant.*—Far above.
*Profile of both the upper and lower part in the lateral
view.*—Convex.
Diameter of the flower.—4.9 cm.
Natural flowering season.—Spring to autumn.
Number of flowers per spray.—1.
Flower longevity on the plant.—14 days.

Buds:

Length.—1.9 cm.
Diameter.—0.9 cm.
Shape.—oblong.
Color.—RHS 137C.
Extrusion of the styles at the bud stage.—Absent.

Corolla:

Quantity of petals and arrangement.—25 and arranged
in 4 whorls.
Corolla height.—2.0 cm.
Petal length.—3.7 cm.
Petal width.—2.0 cm.
Petal shape.—Obtuse.
Petal apex.—Obtuse.
Petal base.—Acute.
Petal margin.—Crenate.
Depth of petal margin.—Shallow.
Petal texture (both upper and lower surfaces).—
Smooth.
Petal color.—Immature: Upper surface: RHS NN155C
with N79B macule and N78B flush. Lower surface:
RHS NN155C. Mature: Upper surface: RHS
NN155C with N79B macule and N78B flush. Lower
surface: RHS NN155C.
Macule.—Present. Color: RHS N79B. Size (length):
0.3 cm.

Calyx:

Quantity of sepals and arrangement.—Composed of 6
sepals.
Longitudinal axis of the lobes of the calyx.—Straight.
Shape.—Acute.
Calyx height.—2.0 cm.
Calyx diameter (at the apex).—1.3 cm.
Sepal texture (both upper and lower surfaces).—
Smooth.
Sepal color.—Upper surface: RHS 147B. Lower sur-
face: RHS 147C.
*Position of the outer lobes of the epicalyx in relation to
the calyx.*—Free.
Apex shape of the outer lobes of the epicalyx.—Acute.
Tip length of the outer lobes of the epicalyx.—0.3 cm.
Apex shape of the inner lobes of the epicalyx.—Short
acuminate.
Tip length of the inner lobes of the epicalyx.—0.3 cm.

Peduncles:

Length.—1.5 cm.
Diameter.—0.2 cm.
Strength.—Medium.
Texture.—Smooth.
Color.—RHS 137A.

Reproductive organs:

Stamens.—Quantity per flower: 7. Filament length: 2.3
cm. Filament color: 157C RHS. Anther length: 0.1
cm. Anther diameter: Less than 0.1 cm. Anther color:
RHS 199C. Pollen amount: None observed.
Pistils.—Quantity per flower: 2. Length: 1.0 cm. Diam-
eter: 0.1 cm. Stigma: Color: RHS 155C. Shape:
Filamentous. Length: 0.1 cm. Diameter: 0.1 cm.
Style: Color: RHS 155C. Length: 0.1 cm. Diameter:
0.1 cm. Number of styles: 2. Shoulder: Absent.
Ovary: Color: RHS 145D. Width: 0.2 cm. Texture:
Smooth.

Seeds: None observed to date.
Disease and insect resistance: No particular disease or insect
resistance observed.

COMPARISON OF ‘KLEDP23440’ WITH
PARENTAL LINE AND KNOWN VARIETY

‘KLEDP23440’ is distinguished from the female parent as
described in Table 1.

TABLE 1

Comparison with Parental Line		
Characteristic	‘KLEDP23440’	Female parent
Flower color	White and purple	White and red bicolor
Earliness	Early	Medium early

‘KLEDP23440’ can be compared to the commercial
Dianthus variety ‘KLEDP23480’ (U.S. Plant Pat. No.
36,216). Differences between the varieties are described in
Table 2.

TABLE 2

Comparison with Similar Variety		
Characteristic	‘KLEDP23440’	‘KLEDP23480’
Flower color	White and purple	White and magenta
Earliness	Early	Very early
Habit	Upright with long flower stems	Upright with shorter flower stems

I claim:

1. A new and distinct cultivar of *Dianthus* Plant Named
'KLEDP23440' as illustrated and described herein.

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