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

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(54) **DIANTHUS PLANT NAMED ‘WP 05 PP 22’**

(50) Latin Name: *Dianthus*×*hybrida*
Varietal Denomination: **WP 05 PP 22**

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patent is extended or adjusted under 35
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(51) **Int. Cl.**
A01H 5/00 (2006.01)

(52) **U.S. Cl.** **Plt./281**

(58) **Field of Classification Search** Plt./272,
Plt./281
See application file for complete search history.

(56) **References Cited**

OTHER PUBLICATIONS

UPOV ROM, GTITM Plant Variety Database citation for ‘WP05
PP22’ PBR 20051756, filed Sep. 22, 2005, published Dec. 15, 2005.*

* cited by examiner

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(57) **ABSTRACT**

A new cultivar of *Dianthus* plant named ‘WP 05 PP 22’ that is
characterized by compact habit, grey-green foliage, and
semi-double raspberry pink flowers. In combination these
traits set ‘WP 05 PP 22’ apart from all other existing varieties
of *Dianthus* known to the inventor.

2 Drawing Sheets

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Genus: *Dianthus*.
Species: ×*hybrida*.
Denomination: ‘WP 05 PP 22’.

BACKGROUND OF THE INVENTION

The present invention relates to a new and distinct cultivar
of *Dianthus* that is grown for use as a flowering plant for pots
and containers and as a hardy perennial for the garden border.
The new cultivar is known botanically as *Dianthus*×*hybrida* and
will be referred to hereinafter by the cultivar name ‘WP
05 PP 22’.

‘WP 05 PP 22’ arose and was selected by the inventor in
2003 at the inventor’s nursery in Houndspool, Dawlish,
Devon, United Kingdom as a naturally occurring sport of
Dianthus ‘DEVON PP11’ (U.S. Plant Pat. No. 14,919). ‘WP
05 PP 22’ exhibits upright compact habit, grey-green foliage,
and an abundance of semi-double bright raspberry pink flow-
ers.

The variety of *Dianthus* which is considered by the inven-
tor to most closely resemble ‘WP 05 PP 22’ is the parent plant,
Dianthus ‘DEVON PP11’. Whereas ‘DEVON PP11’ pro-
duces semi-double bicolored (lavender and mid-pink) flow-
ers, ‘WP 05 PP 22’ produces semi-double flowers which are
uniformly colored bright raspberry pink.

Asexual reproduction of the new cultivar was first accom-
plished by the inventor in 2004 in a cultivated area of Hound-
spool, United Kingdom. The method of asexual propagation
used was vegetative cuttings. Since that time the characteris-
tics of the new cultivar have been determined stable and are
reproduced true to type in successive generations.

SUMMARY OF THE INVENTION

The following traits have been repeatedly observed and
represent the characteristics of the new *Dianthus* cultivar ‘WP

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05 PP 22’. These traits in combination distinguish this culti-
var from all other commercial varieties known to the inventor.
‘WP 05 PP 22’ has not been tested under all possible condi-
tions and phenotypic differences may be observed with varia-
tions in environmental, climatic and cultural conditions, how-
ever, without any variance in genotype.

1. *Dianthus* ‘WP 05 PP 22’ exhibits a compact habit.
2. *Dianthus* ‘WP 05 PP 22’ blooms profusely from May
through October.
3. *Dianthus* ‘WP 05 PP 22’ exhibits semi-double flowers
that are uniformly colored bright raspberry pink.
4. *Dianthus* ‘WP 05 PP 22’ exhibits grey-green foliage.
5. At maturity, the height of the foliage mound of *Dianthus*
‘WP 05 PP 22’ is 20 cm.
6. *Dianthus* ‘WP 05 PP 22’ is perennial and is hardy to –15°
C.
7. *Dianthus* ‘WP 05 PP 22’ is suitable for use as a flowering
plant in pots or border.

BRIEF DESCRIPTION OF THE DRAWINGS

The accompanying color drawings illustrate the overall
appearance of the new *Dianthus* variety ‘WP 05 PP 22’ show-
ing colors as true as it is reasonably possible to obtain in
colored reproductions of this type. Colors in the drawings
may differ from the color values cited in the detailed botanical
description, which accurately describe the actual colors of the
new variety ‘WP 05 PP 22’.

The drawing labeled as FIG. 1 depicts an entire flowering
plant.

The drawing labeled as FIG. 2 depicts a close-up view of
the flower.

All drawings were made of plants which were 9 months old
and which had grown in 1.5-liter containers in an unheated
glasshouse in Devon, United Kingdom. No chemicals were
used to treat the plants. All drawings were made using con-

ventional techniques and although colors may appear different from actual colors due to light reflectance they are as accurate as possible by conventional photography.

DETAILED BOTANICAL DESCRIPTION OF THE
PLANT

The following is a detailed description of the new cultivar 'WP 05 PP 22'. Data was collected in spring and summer from plants which were 9 months old and which had been grown in 1.5-liter container plants in a frost-protected glasshouse in Devon, United Kingdom. The color determinations are in accordance with the 2007 edition of The Royal Horticultural Society Colour Chart of The Royal Horticultural Society, London, England, except where general color terms of ordinary dictionary significance are used. The colors of stems, leaves, calyx, and epicalyx have been noted on plants which retain the characteristic waxy bloom of *Dianthus*. No chemicals were used to treat the plants. Growing conditions are typical to other *Dianthus*.

Botanical classification: *Dianthus* 'WP 05 PP 22'.

Species: *xhybrida*.

Common name: Garden pink.

Commercial classification: *Dianthus* hybrid.

Type: Perennial.

Use: Used as a flowering plant for pots and containers and for planting in the garden border.

Parentage: Naturally occurring sport of *Dianthus* 'DEVON PP11'.

Plant description:

Bloom period.—May through October.

Plant habit.—Compact mound with many branches and stems; upright growth.

Plant height.—(*foliage mound*).—20 cm after 9 months.

Plant width.—17 cm to 22 cm after 9 months.

Plant hardiness.—Hardy to minus 15° Centigrade.

Root system.—Fine fibrous roots.

Propagation.—Propagation is accomplished using vegetative cuttings.

Cultural requirements.—Grow in full sun, with moderate water, and well-drained moderately fertile soil. Remove dead flower heads to maintain flowering.

Diseases and pests.—Susceptible to known *Dianthus* pests and disease but no other susceptibilities to pests or disease are known to the inventor.

Time and temperature needed to produce a rooted cutting.—3 weeks are needed to produce roots on cuttings using a mist propagation unit with bottom heat of 21° Centigrade, and a minimum air temperature of 15° Centigrade.

Crop time.—3 months starting in the early spring through summer and 6 months starting in the fall is needed to produce a finished container size plant from a well-rooted cutting.

Stem:

Shape.—Cylindrical.

Stem dimensions.—8 cm to 12 cm in height and 3 mm to 4 mm in diameter.

Stem surface.—Glabrous and glaucous.

Stem color.—145C.

Branching.—Numerous shoots from the axils of the lower leaves.

Internode length.—4 mm to 6 mm between nodes.

Node color.—145C.

Node dimensions.—4 mm in length and 3 mm to 4 mm in diameter.

Foliage:

Type.—Evergreen.

Shape.—Linear and straight.

Division.—Simple.

Apex.—Acute.

Base.—Decurrent.

Venation.—Not Prominent.

Margins.—Entire.

Attachment.—Sheathing.

Arrangement.—Opposite or spiraling.

Surfaces (adaxial and abaxial).—Glaucous.

Leaf dimensions.—60 mm to 75 mm in length and 3 mm to 4 mm in width.

Leaf color (adaxial and abaxial surfaces).—N189B.

Fragrance.—Absent.

Buds (immediately prior to opening):

Shape.—Conical.

Dimensions.—15 mm-22 mm in length, 5 mm-8 mm in diameter.

Color.—145B beneath bracteoles, 144B elsewhere except 144A at base.

Surface.—Glabrous.

Flowers:

Inflorescence: Cymose.

Number of flowers per stem.—From 5 to 10.

Peduncles:

Dimensions.—Length: 100 mm-150 mm (range for all flower stems). Diameter: 2 mm at base, 1.5 mm below terminal bud.

Strength.—Stiff, wiry.

Angle.—Peduncles are erect and vertical.

Color.—188A.

Pedicel dimensions.—100 mm to 200 mm in length and 2 mm to 3 mm in width.

Pedicel strength.—Erect.

Pedicel color.—188A.

Flower development.—In sequence from the uppermost bud.

Flower type.—Salviform, semi-double and symmetrical.

Flower shape.—Circular.

Flower profile.—Reflexed.

Flower dimensions: (including calyx).—35 mm in length and 40 mm in width.

Fragrance.—Medium.

Petals.—Number: 15-20 petals. Profile, upper part of corolla: Convex. Profile, lower part of corolla: Concave. Arrangement: Persistent, semi-double, apopetalous, overlapping. Margin: Serrate with indentations 0.5 mm to 2 mm deep. Apex: Rounded. Base: Attenuate. Texture: Soft. Shape: Obdeltoid. Surface: Glabrous. Dimensions: 35 mm to 40 mm in length and 15 mm to 20 mm in width. Color (adaxial surface): Ground color of blade: 67C. Band across blade: 61A Middle of strap: 145C. Base of strap: 145D. Color (abaxial surface): Ground color of blade: 64C. Band across blade: Absent. Middle of strap: 145C. Base of strap: 145D.

Calyx.—Shape: Cylindrical. Longitudinal profile: Flat. Dimensions: 25 mm in length and 8 mm in diameter. Sepals: Fused. Number of sepals: 5. Sepal surface: Glaucous. Sepal apex: Acuminate. Sepal margin: Entire, smooth. Sepal color (both surfaces): 143A (apex) and 143C (blade). Anthocyanin: Absent. Splitting: Not observed.

Epicalyx.—Bracts: 1 pair of 2. Shape of outer lobe: Acuminate. Dimensions: 10 mm in length and 8 mm in width. Color: 143A on the tip and 143C on the blade. Anthocyanin: Not present.

Bracteoles.—Number: 2. Dimensions: 8 mm in length and 6 mm in width. Color: 143A on the tip and 143C

on the blade. Anthocyanin: Not present. Lastingness of flower: Each individual flower lasts an average of 10 days at 20° C. on the plant.

Reproductive organs:

Stamens.—Number: 5-10. Filament color: N155D. 5
Dimensions: 15 mm-20 mm in length and 0.5 mm in diameter.

Anthers.—Number: 5-10. Color: 84C. Dimensions: 3 mm-4 mm in length and 0.5 mm in diameter. Attachment: Basifixed. 10

Pollen.—Occasionally. Color: 11D.

Pistil.—Number: 2; length 30 mm-40 mm; color, white.

Style.—Number: 2. Shoulder: Absent. Color: NN155D. 15
Dimensions: 25 mm to 30 mm in length and 1 mm in width.

Stigma.—Number: Single. Color: N66C. Dimensions: 5 mm to 8 mm above petals.

Ovary.—Position: Superior. Dimensions: 8 mm in length and 5 mm in diameter. Shape: Spindle. Color (adaxial): 145B. Color (abaxial): 145C.

Seed.—Number: 1-10. Dimensions: 3 mm in length and 2 mm in width. Color: 202A. Shape: Oval and flattened. Surface: Crinkled.

What is claimed is:

1. A new and distinct cultivar of *Dianthus* plant named 'WP 05 PP 22' as described and illustrated herein.

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FIG. 1



FIG. 2