



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

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(54) **DIANTHUS PLANT NAMED ‘WP11 GWE04’**

(50) Latin Name: ***Dianthus*×*hybrida***
Varietal Denomination: **WP11 GWE04**

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See application file for complete search history.

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(57) **ABSTRACT**

A new cultivar of *Dianthus* plant named ‘WP11 GWE04’ which is characterized by a compact mounding habit, gray-blue foliage, strongly fragrant white double flowers with ruffled petals and dentate margins, is disclosed.

2 Drawing Sheets

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Genus and species: *Dianthus*×*hybrida*.

CROSS REFERENCE TO RELATED APPLICATIONS

This application claims the benefit of priority under 35 U.S.C. 119(f) of the earlier application for European Community Plant Variety Rights which was filed for the instant plant variety on May 10, 2012, Application Number 2012/1030.

BACKGROUND

The present invention relates to a new and distinct cultivar of hardy garden pink, that is grown for use as a flowering plant for pots and containers and for planting in the garden and landscape. The new cultivar is known botanically as *Dianthus*×*hybrida* and will be referred to hereinafter by the cultivar name ‘WP11 GWE04’.

‘WP11 GWE04’ is a complex hybrid plant that is the product of a long term breeding program conducted by the inventor in a cultivated area of Houndspool, Dawlish, Devon, United Kingdom. The inventor selected ‘WP11 GWE04’ in 2004 for its double white flowers, ruffled petal edges, strong spicy clove-like fragrance and gray-blue foliage.

‘WP11 GWE04’ arose and was selected as a seedling which resulted from the controlled pollination of an existing selection of *Dianthus* from the inventor’s breeding program, namely *Dianthus* code name ‘ASH22’ (unpatented and unreleased) as the female parent plant, by an existing selection of *Dianthus* from the inventor’s breeding program, namely *Dianthus* code name ‘Clujh’ (unpatented and unreleased) as the male parent plant.

Asexual reproduction of ‘WP11 GWE04’ was first accomplished in 2004 in a cultivated area of Houndspool, United Kingdom. The method of asexual propagation used was veg-

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etative cuttings. ‘WP11 GWE04’ is stable and reproduces true to type in successive generations of asexual propagation via vegetative cuttings.

COMPARISON BETWEEN PARENTAL AND COMMERCIAL VARIETIES

‘WP11 GWE04’ is distinguishable from the female parent as follows: Whereas the flower of ‘WP11 GWE04’ is double and white, the flower of ‘ASH22’ is semi-double and carmine in color. In addition, the foliage of the ‘ASH22’ is dark green in color, whereas the foliage of ‘WP11 GWE04’ is gray-blue in color.

‘WP11 GWE04’ is distinguishable from the male parent as follows: Whereas the flower of ‘WP11 GWE04’ is double and white, the flower of ‘Chujh’ is double and carmine in color.

The variety of *Dianthus* which is considered by the inventor to most closely resemble ‘WP11 GWE04’ is the double white flowered *Dianthus* ‘Mrs. Sinkins’ (unpatented). In comparison with ‘WP11 GWE04’, the habit of ‘Mrs. Sinkins’ has low plant vigor and exhibits an open rather than compact habit. In addition, ‘Mrs. Sinkins’ blooms predominantly in the spring only whereas ‘WP11 GWE04’ blooms almost continually from spring until fall.

SUMMARY

The following traits have been repeatedly observed and represent the characteristics of the new *Dianthus* cultivar ‘WP11 GWE04’. These traits in combination distinguish this cultivar from all other commercial varieties known to the inventor. ‘WP11 GWE04’ has not been tested under all possible conditions and phenotypic differences may be observed with variations in environmental, climatic and cultural conditions, however, without any variance in genotype.

1. 'WP11 GWE04' exhibits a compact mounding habit.
2. 'WP11 GWE04' bears double white flowers.
3. The petals of 'WP11 GWE04' are gently ruffled with dentate margins
4. 'WP11 GWE04' blooms from Mid-April through Octo- 5
ber.
5. The flowers of 'WP11 GWE04' are strongly fragrant and spicy or clove-like.
6. 'WP11 GWE04' exhibits glaucous, gray-blue foliage.
7. At maturity, the height of the foliage mound of 'WP11 10
GWE04' is 35 cm, and the width is 25 cm.
8. 'WP11 GWE04' is perennial and is hardy at least to -15° C.
9. 'WP11 GWE04' is suitable for use as a flowering plant in 15
pots and containers, and for use as a cut flower and in bouquets.

BRIEF DESCRIPTION OF THE PHOTOGRAPHS

The accompanying color photographs illustrate the overall 20
appearance of the new *Dianthus* variety 'WP11 GWE04' showing colors as true as it is reasonably possible to obtain in colored reproductions of this type. Colors in the photographs may differ from the color values cited in the detailed botanical 25
description, which accurately describe the actual colors of the new variety 'WP11 GWE04'.

FIG. 1 depicts an entire flowering plant of 'WP11 GWE04'.

FIG. 2 depicts a close-up view of the flower of 'WP11 GWE04'. 30

All drawings were made from 9-month-old plants which have been grown in 1.5-liter containers in a cold glasshouse in Devon, United Kingdom. No chemicals were used to treat the plants. All drawings were made using conventional tech- 35
niques and although colors may appear different from actual colors due to light reflectance they are as accurate as possible by conventional photography.

BOTANICAL DESCRIPTION OF THE PLANT

The following is a detailed description of the new cultivar 40
'WP11 GWE04'. Data was collected from plants grown in 1.5 liter containers under an unheated glasshouse in Houndspool, United Kingdom. The color determinations are in accordance with the 2001 edition of The Royal Horticultural Society 45
Colour Chart of The Royal Horticultural Society, London, England, except where general color terms of ordinary dictionary significance are used. No chemicals were used to treat the plants. Growing conditions are typical to other *Dianthus*.
Classification: 50

Botanical.—*Dianthus* × *hybrida*.

Denomination.—'WP11 GWE04'.

Common name.—*Dianthus*, garden pink.

Commercial classification.—Hardy perennial herb.

Parentage: 'WP11 GWE04' is a hybrid plant that resulted 55
from the cross pollination of two *Dianthus* breeding varieties.

Female parent plant.—*Dianthus* 'ASH22' plant (unpat-
ented).

Male parent plant.—*Dianthus* 'Clujh' plant (unpat- 60
ented).

Plant description:

Use.—Ornamental plant for pots and containers, cut
flowers, bouquets.

Bloom period.—Mid April to October. 65

Plant habit.—Compact mounding habit.

Plant height.—35.0 cm in overall height, including
flower canopy.

Plant width.—25.0 cm in width.

Plant hardiness.—Hardy to minus 15° Centigrade.

Type.—Perennial.

Root system.—Fibrous.

Propagation.—Propagation is accomplished using veg-
etative cuttings.

Cultural requirements.—Plant in full sun, well-drained
and moderately fertile soil and keep well-fertilized
and watered.

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

Time required to produce a rooted cutting.—5 weeks are
needed to produce a rooted cutting.

*Temperature recommended for cuttings to produce
roots*.—The air temperature needed is a minimum of
 15° Centigrade and base heat of 21° Centigrade.

Crop time.—3 to 6 months is needed to produce a fin-
ished 1.5-liter container size from a well-rooted cut-
ting.

Foliage:

Shoots (cutting).—Shape: Cylindrical. Dimensions:
12.0 cm in length and 0.5 cm in diameter. Surface
texture: Glabrous and glaucous. Color: RHS 145C
(base of the cutting, then its leaf color). Branching:
Numerous shoots from the axils of the lower leaves.

Leaf.—Type: Evergreen. Dimensions: 9.0 cm in length
and 5.0 mm in width. Color (adaxial and abaxial sur-
faces): Ranges between RHS 189A to RHS 189B.
Shape: Linear, straight. Division: Simple. Apex:
Acute. Base: Decurrent. Venation: Not prominent.
Margins: Entire. Attachment: Sheathing. Arrange-
ment: Opposite and spiraling up stem. Surfaces
(adaxial and abaxial): Glaucous. Stipules: Absent.

Flower stem (peduncle):

Shape.—Cylindrical.

Dimensions.—Approximately 11.0 cm in length (mea-
sured from the base of the calyx to lowest internode),
2.0 mm in width.

Surface texture and appearance.—Glabrous, waxy.

Node.—Swollen, 6.0 mm in diameter and 3.0 mm in
length.

Strength.—Erect.

Color.—RHS N189C.

Flowers:

Inflorescence type.—Cymose.

Shape.—Salviform and symmetrical.

Number.—4 to 6 buds per stem.

Dimensions (including calyx).—40.0 mm in length and
50.0 mm in diameter.

Shape.—Circular.

Lastingness.—10 to 20 days at 20° Celsius on the plant;
8 to 10 days off the plant.

Fragrance.—Strong, spicy and clove-like.

Flowering period.—Mid-April to October.

Bud.—Shape: Obovate (when cracking color). Color:
Ranges between RHS N138A at apex and RHS 144B
at base. Anthocyanin: Absent. Dimensions: 22.0 mm
to 25.0 mm in length and 11.0 mm in width (described
when just cracking color).

Corolla.—Profile: Convex for the upper part and con-
cave for the lower part. Petal arrangement: Persistent,
apopetalous, overlapping. Margin: Crenate-dentate.

Indentations: 1.0 mm to 3.0 mm deep. Texture: Soft.
 Type: Double. Number of petals: 30 to 35 true petals
 plus 10 to 15 staminode petaloids. Dimensions: 43.0
 mm in length, 20.0 mm in width. Petal shape: Obdel-
 toid. Petal surface: Glabrous, undulating. Petal apex: 5
 Fan shaped. Petal base: Strap shaped, tapering
 towards base. Color pattern: White throughout except
 for green hue at the base of the petal when very young.
 Petal color (both surfaces): Ground main color of
 blade: White (whiter than RHS NN155). Color of 10
 middle of strap: Ranges between RHS 145C and RHS
 145D. Color of base of strap: RHS 149D when very
 young, becoming RHS 145D.
Calyx.—Calyx dimensions: 23.0 mm in length and 11.0
 mm in width. Calyx shape: Cylindrical to campanu- 15
 late when flower is open. Number of sepals: 5, fused
 to 5.0 mm to 8.0 mm below the subacute apex. Sepal
 dimensions: 23.0 mm in length and 8.0 mm in width.
 Color of sepals, outer surface: RHS 138A or RHS
 138B, fading to RHS 144B at base. Color of sepals, 20
 inner surface: Ranges between RHS 145A and RHS
 145B. Anthocyanin: Not present. Splitting: Yes.
Epicalyx.—Number of Bracts: 1 pair of 2. Bracts shape:
 Acuminate. Bracts dimensions: 10.0 mm in length
 and 13.0 mm in width. Bracts color: RHS N138A, 25
 RHS N138B, RHS N138C and RHS 144C are all
 present. Anthocyanin: Absent. Number of Bracteoles:
 1 pair of 2. Bracteoles shape: Acute. Bracteoles
 dimensions: 1.0 cm in length and 0.8 cm in width.
 Bracteoles color: RHS N138A, RHS N138B, RHS 30
 N138C and RHS 144C are all present. Bracteoles
 anthocyanin: Absent.

Reproductive organs:

Stamen number.—10 to 20.
Stamen dimensions.—28.0 mm length and 0.5 mm
 diameter.
Color of filaments.—White.
Anther number.—20 to 40 (two per stamen).
Anther dimensions.—1.0 mm length and 0.5 mm in
 diameter.
Color of anthers.—White.
Anther attachment.—Dorsifixed.
Pollen.—Present.
Style number.—2 to 3.
Style shoulder.—Absent.
Color of style.—White.
Style dimensions.—20.0 mm in length and 1.0 mm in
 diameter.
Stigma number.—One on each style.
Stigma color.—White.
Stigma dimensions.—10.0 mm in length, 1.5 mm in
 diameter.
Ovary position.—Superior.
Ovary dimensions.—8.0 mm in length and 5.0 mm in
 diameter.
Ovary shape.—Spindle.
Ovary color.—Ranges between RHS 145A and RHS
 145C.

Seed: Seed has been observed; color black, shape ovoid,
 crinkled, dimensions 0.3 cm in length and 2.0 mm in width.
 I claim:

1. A new and distinct cultivar of *Dianthus* plant named
 ‘WP11 GWE04’ as described and illustrated herein.

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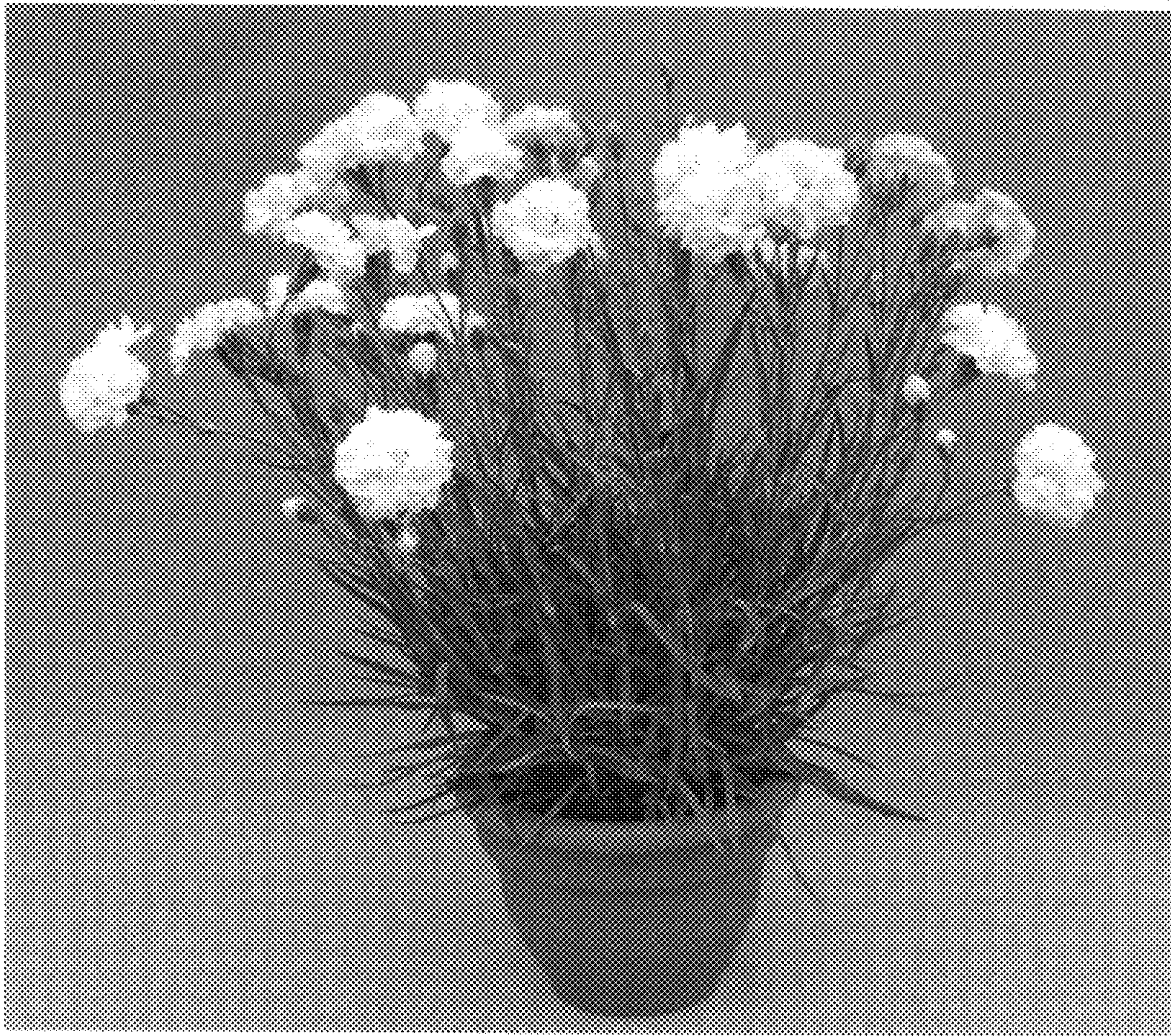


FIG. 1

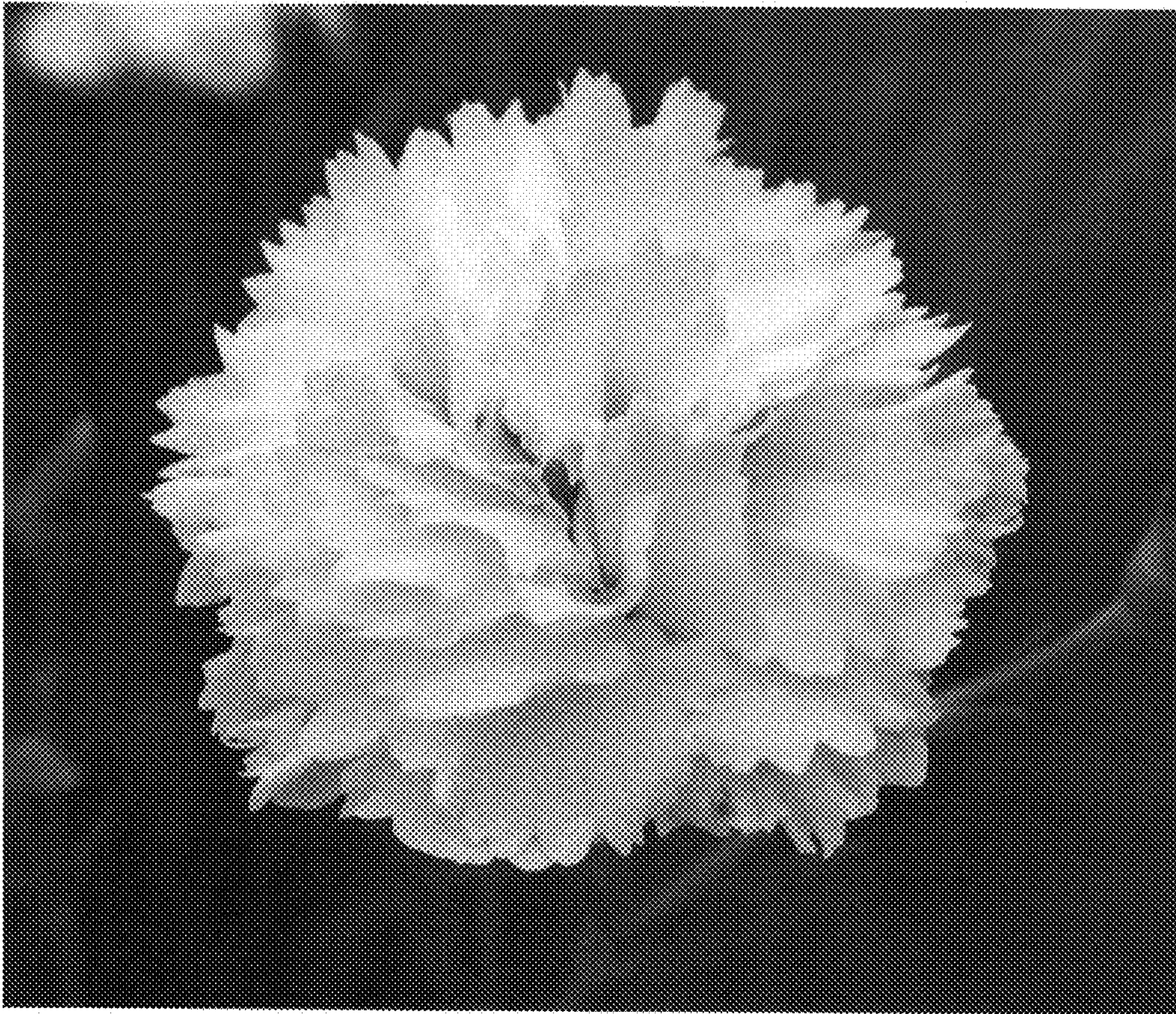


FIG. 2