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(12) **United States Plant Patent**
Trigiano et al.

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(54) **CORNUS KOUSA TREE NAMED ‘PAM’S MOUNTAIN BOUQUET’**

(50) Latin Name: *Cornus kousa*
Varietal Denomination: **Pam’s mountain bouquet**

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(21) Appl. No.: **13/506,624**

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(51) **Int. Cl.**
A01H 5/02 (2006.01)

(52) **U.S. Cl.**
CPC **A01H 5/02** (2013.01)
USPC **Plt./220**

(58) **Field of Classification Search**
USPC **Plt./220**
See application file for complete search history.

(56) **References Cited**

PUBLICATIONS

Wadl, P.A. et al. “Microsatellites from kousa dogwood (*Cornus kousa*)” *Molecular Ecology Resources*, 2008, pp. 780-782, vol. 8.
Wadl, P.A. et al. “Molecular Identification Keys for Cultivars and Lines of *Cornus florida* and *C. kousa* Based on Simple Sequence Repeat Loci” *Journal of the American Society for Horticultural Science*, 2008, pp. 783-793, vol. 133, No. 6.

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(74) *Attorney, Agent, or Firm* — Saliwanchik, Lloyd & Eisenschenk

(57) **ABSTRACT**

A new and distinct cultivar of flowering dogwood tree, which has fused bracts is provided. This dogwood tree is botanically known as *Cornus kousa* and referred to by the following cultivar name: ‘Pam’s Mountain Bouquet’.

3 Drawing Sheets

1

BACKGROUND OF THE INVENTION

The present invention relates to a new and distinct cultivar of flowering dogwood tree cultivar, which has fused bracts. This dogwood tree is botanically known as *Cornus kousa* and hereinafter referred to by the following cultivar name: ‘Pam’s Mountain Bouquet’.

This new dogwood cultivar was discovered in a planting of seedlings within a cultivated area in Oak Ridge, Tenn. ‘Pam’s Mountain Bouquet’ is a selection from the original seedlings grown in Oak Ridge, Tenn. from seed gifted by Polly Hill. Asexual reproduction of ‘Pam’s Mountain Bouquet’ by rooting of harvested terminal cuttings and grafting of axillary buds onto seedling rootstocks in Oak Ridge, Tenn. and at a nursery located in Belvidere Tenn. have shown that the unique features of this new dogwood cultivar are stable and reproduced true-to-type in successive vegetative generations.

BRIEF DESCRIPTION OF THE DRAWINGS

FIG. 1. Photograph of ‘Pam’s Mountain Bouquet’. Colors in the photograph may differ from actual colors due to lighting and light reflectance.

FIGS. 2A and 2B. Close-up Photographs of ‘Pam’s Mountain Bouquet’ bracts.

FIG. 3. Dendrogram illustrating the relatedness of ‘Pam’s Mountain Bouquet’ to other selected *Cornus kousa* cultivars using 11 microsatellite (SSR; Simple Sequence Repeat) markers. Note: Cultivar Beni Fuji is disclosed in U.S. Plant. Pat. No. 8,676.

2

DETAILED DESCRIPTION OF THE NEW VARIETY

A new and distinct cultivar of flowering dogwood tree cultivar, which has fused bracts is provided. This dogwood tree cultivar is botanically known as *Cornus kousa* and referred to by the following cultivar name: ‘Pam’s Mountain Bouquet’. This cultivar appears to be resistant to powdery mildew caused by *Erysiphe pulchra* and dogwood anthracnose caused by *Discula destructiva*.

This new and distinct dogwood tree cultivar was discovered in a planting of seedlings within a cultivated area in Oak Ridge, Tenn. and arose from seed gifted by Ms. Polly Hill. ‘Pam’s Mountain Bouquet’ is a selection from the original seedlings. The instant cultivar was derived from open-pollinated seeds that were bulked from maternal parents ‘Big Apple’, ‘Snowbird’, ‘Steeple’ and an unnamed tree and the potential paternal parents ‘Big Apple’, ‘Julian’, ‘Steeple’ and another unnamed tree (Auge et al., 2002). Thus, it is not possible to ascertain the exact parentage. The subject dogwood tree cultivar differs from all of the potential parents in that the instant cultivar has fused bracts, whereas none of the potential parent cultivars show the same characteristic.

Asexual reproduction of ‘Pam’s Mountain Bouquet’ by rooting of harvested terminal cuttings and grafting of axillary buds onto seedling rootstocks in Oak Ridge, Tenn. and at a nursery located in Belvidere, Tenn. has shown that the unique features of this new dogwood cultivar are stable and reproduced true-to-type in successive generations.

DETAILED BOTANICAL DESCRIPTION

The following observations, measurements and comparisons describe this cultivar grown in Oak Ridge, Tenn. Trees

used for this description were about twenty (20) years old. Plant hardiness is expected to be zones 4-9. The color characteristic descriptions use color references to The Royal Horticultural Society (R.H.S.) Colour Chart (published 2001), except where general terms of ordinary dictionary significance are used. Measurements are provided as an average (with ranges also provided as indicated).

The following Table 1 shows microsatellite (SSR) markers used to perform unweighted pair group with arithmetic mean (UPGMA) cluster analysis of 29 cultivars and lines of *Cornus kousa*. GenBank accession numbers are given along with, locus designations, forward (F) and reverse (R) primer sequences (5'-3' direction), and repeat motif:

TABLE 1

GenBank accession no.	Locus	Primer sequences (5'-3')	Repeat
EU544308	CK005	F:GCATTTGTCCTTTGTTGACAT (SEQ ID NO: 1)	(AC) ₂₀
		R:TTTTTCGCGAAGTGTCTCTAC (SEQ ID NO: 2)	
EU125522	CK007	F:GAGCCAGAGAAGAATATAGAC (SEQ ID NO: 3)	(AG) ₈
		R:ATATAATTGGTTGGGTTTTG (SEQ ID NO: 4)	
EU125523	CK015	F:GTCAAATTTTGATCTTCTCTCT (SEQ ID NO: 5)	(CT) ₁₀
		R:GGAGAGACAGGTACAGTAGAGGT (SEQ ID NO: 6)	
EU125524	CK029	F:AATTTAGGTTAAGGTTTGTATTG (SEQ ID NO: 7)	(TC) ₈
		R:AGAGAGAATAGGTTACAGCATCAT (SEQ ID NO: 8)	
EU125525	CK031	F:TGTCACCTGCTTACAGAAACAAT (SEQ ID NO: 9)	(CT) ₇
		R:TATGACGAGATTGTATAAGTTGCT (SEQ ID NO: 10)	
EU125526	CK040	F:CCAAGTCAGTTTGGTAGTAATTC (SEQ ID NO: 11)	(GT) ₁₆
		R:AGTGCAACTTTTACTTGCTATGT (SEQ ID NO: 12)	
EU125529	CK048	F:ACCAACCAAAGAAGTATAAAGAA (SEQ ID NO: 13)	(TA) ₆
		R:CCTATAAATAAGGAGTGATTTGGT (SEQ ID NO: 14)	
EU544309	CK058	F:CTTAAGTCACAAAGACAATGAAAT (SEQ ID NO: 15)	(GT) ₁₀
		R:AAGAGAGTTTCAGATTTATCTTTGC (SEQ ID NO: 16)	
EU544310	CK070	F:CTTTTCTACACCCTTAACAAGTG (SEQ ID NO: 17)	(GT) ₉
		R:TAGACAATATGTGCTTAATTGGTT (SEQ ID NO: 18)	

TABLE 1-continued

GenBank accession no.	Locus	Primer sequences (5'-3')	Repeat
EU544311	CK071	F:CTGCTCGGTTAAGGTATGTT (SEQ ID NO: 19)	(TG) ₉
		R:TTTAAAGTGC GTTGTATACATAA AT (SEQ ID NO: 20)	
EU544312	CK072	F:AGCACTCATAGTCCTTGAC (SEQ ID NO: 21)	(GT) ₁₀
		R:GTAAAACGAAGAAGATAACAACAA (SEQ ID NO: 22)	

TABLE 2

Characteristics of Pam's Mountain Bouquet'			
Color Descriptions are based upon the Royal Horticultural Society's (RHS) colour chart, 2001.			
Character	Generalized Characteristics	'Pam's Mountain Bouquet'	Comparative Variety (Milky Way Select)
1 Tree form (observation)	upright semi-upright spreading weeping others	spreading	Spreading-to semi-upright
2 Tree height (observation)	dwarf low medium high very high	low (about 3-4 meters; spread about 4-5 meters, and dependent on age and environment)	Medium
3 Branch thickness (measurement) Thickness in the middle portion of a plant	thin medium thick	medium (age dependent)	Medium
4 Color of current Shoot (observation) current shoot color in the middle portion of a plant	Yellow Yellow green Green Grayish green Purple Crimson Brown Others	Green 143B	Green 143B
5 Branch color (observation) current branch color in the middle portion of a plant second year+	Yellow Yellow green Green Purplish crimson Crimson Brown Others	Greyed; Green 198B	Greyed; Green 198B
6 Dark spots on Branch (observation) presence of dark spots on the branch	Absent Present	Absent	Absent
7 Branching (observation) density of branching	Low Medium High	High	Medium
8 Internode length (measurement) Internode length in the middle portion of a plant	Short medium long	Short	Short

TABLE 2-continued

Characteristics of Pam's Mountain Bouquet' Color Descriptions are based upon the Royal Horticultural Society's (RHS) colour chart, 2001.			
Character	Generalized Characteristics	'Pam's Mountain Bouquet'	Comparative Variety (Milky Way Select)
9 whole shape of leaves (observation) see Fig. 1 whole shape of a leaf in the middle portion of a plant	Lanceolate Oblanceolate Oblong Elliptical Ovate Obovate Orbicular Others	Obovate	Obovate
10 Shape of leaf tip (observation) see Fig. 2 Tip shape of a leaf in the middle portion of a plant	Acuminate Acute obtuse Rotundate Others	Acuminate	Acuminate
11 Shape of leaf Base (observation) see FIG. 2A and FIG. 2B Base shape of a leaf in the middle portion of a plant	Acuminate Acute obtuse Rotundate Others	Truncate	Truncate
12 Shape of leaf Margin (observation) shape of a leaf margin in the middle portion of a plant	Entire others	Entire	Entire
13 Leaf rolling (observation)	Rolling inward Flat Rolling outward	Rolling inward	Rolling inward
14 Leaf curvature (observation)	In-curved Flat Out-curved	Flat	Flat
15 Leaf margin Undulation (observation)	None presence	None	None
16 Leaf length (measurement) Length from the tip to the base of mature leaf	Short Medium long	Long (about 10-14 cm)	Medium
17 Leaf width (measurement) The maximum width of mature leaf	Narrow Medium wide	Narrow (about 4-5 cm)	Medium
18 Leaf thickness (observation) Thickness of mature leaf	Thin Medium Thick	Medium	Medium
19 Bud color (observation) Color of bud just after sprouting	Yellowish white Yellow Yellow green Green Grayish green Crimson Others	Grayish green 179A	Grayish Green 191A
20 Immature leaf color (observation)	Yellowish white Yellow Yellow green Green Grayish green pink Crimson others	Light Green 135B	Light Green 135B

TABLE 2-continued

Characteristics of Pam's Mountain Bouquet' Color Descriptions are based upon the Royal Horticultural Society's (RHS) colour chart, 2001.			
Character	Generalized Characteristics	'Pam's Mountain Bouquet'	Comparative Variety (Milky Way Select)
21 Presence of anthocyanin (observation) Coloration by anthocyanin on the immature leaf upperside	Absent present	Absent	Absent
22 Color of leaf upperside (observation) Color of mature leaf upperside	Yellow Yellow green Green Grayish green Purplish crimson Crimson others	Green 143B	Green 146A
23 Color of leaf lowerside (observation) Color of mature leaf lowerside	Yellow Yellow green Light green Green Dark green Grayish green Purplish crimson others	Light Green 146B	Medium Green 137A
24 Seasonal change of a mature leaf (observation)	Unchanged changed	Changed	Changed
25 Color of leaves in autumn (observation)	Yellow Orange Crimson others	Red 10C -46A	Dull Red to maroon 61B
26 Leaf variegation (observation) Variegation on leaf upperside	Not variegated variegated	Not variegated	Not variegated
27 Variegation pattern (observation) Pattern of variegation on a leaf upperside	Spotted Splashed Margined Centered Blotched others	NA	NA
28 Variegation color (observation)	White Yellowish white Greenish white Yellow Yellow Green Green Crimson others	NA	NA
29 seasonal change of variegation color (observation)	Unchanged changed	NA	NA
30 Hair on leaf upperside (observation) hair density on a mature leaf upperside	None Low Medium high	None	None
31 Hair on leaf lowerside (observation) hair density on a mature leaf lowerside	None Low Medium high	None	None

TABLE 2-continued

Characteristics of Pam's Mountain Bouquet'			
Color Descriptions are based upon the			
Royal Horticultural Society's (RHS) colour chart, 2001.			
Character	Generalized Characteristics	'Pam's Mountain Bouquet'	Comparative Variety (Milky Way Select)
32 Petiole length (measurement)	Short	Short	Medium
Length from the base of blade to the base of petiole	Medium Long Very long	(about 1.5-2.5 cm.)	
33 Petiole width (measurement)	Narrow	Medium	Medium
The maximum width of a mature leaf	Medium wide	(<8 mm)	
34 Petiole color (observation)	Yellowish white Yellow Green Green Crimson others	Green 143B	Green 143B
35 Inflorescence type (observation)	Corymb Umbel Head others	Umbel	Umbel
36 Inflorescence direction (observation)	Upright Horizontal pendulous	Upright	Upright
37 Inflorescence diameter (observation)	Small Medium large	Medium (diagonal mean length including bracts = 7.4 cm.; mean width not including bracts = 5.3 cm)	Medium
38 Flower diameter (measurement)	Small Medium Large Very large	Small	Small
39 Floret diameter (measurement)	Small Medium Large	Small	Small
40 Floret color (observation)	White Yellowish white Greenish yellow Light Green others	Yellow 150C	Greenish yellow 150C
41 Bract type (observation)	Single Semi-double Full-double others	83% are FUSED; 17% are Single (see Table 3)	Single and unfused
42 Uniformity of bract size (observation)	Not uniform uniform	Not uniform	Uniform
43 Bract overlapping (observation)	Not overlap Slightly overlap overlap	No overlap -- fused	Slightly overlap
44 Bract orientation (observation)	Ascending Horizontal arching	Recurved, Reflexed, or Flat	Horizontal
45 Bract rolling (observation)	Rolling inward Horizontal Rolling outward	Varies (may roll inward or outward)	Horizontal
46 Degree of bract rolling (observation)	Weak Medium strong	strong	Weak
47 Bract curvature (observation)	In-curved Horizontal Out-curved	Varies (can be recurved, flat, or reflexed)	Horizontal

TABLE 2-continued

Characteristics of Pam's Mountain Bouquet'			
Color Descriptions are based upon the			
Royal Horticultural Society's (RHS) colour chart, 2001.			
Character	Generalized Characteristics	'Pam's Mountain Bouquet'	Comparative Variety (Milky Way Select)
48 Bract twisting (observation)	None Weak Medium strong	None	None
49 Whole shape of bracts (observation)	Oblong Elliptical Ovate Obovate Orbicular others	Obovate Ovate	
50 Shape of bract apex (observation)	Acuminate Acute Abtuse Rotundate Emarginated others	Acuminate Acuminate	
51 Bract length (measurement)	Short Medium Long	Medium	Medium
52 Bract width (measurement)	Narrow Medium wide	FUSED	Medium
53 Number of bracts (measurement)	Few Medium(4) Many(over 10)	FUSED, but 4	Medium(4)
54 Bract color (measurement)	(color of bract in full bloom)	155A (immature: 157A)	155A
55 Bract variegation (observation)	Not variegated variegated	Not variegated	Not variegated
56 Variegation pattern (observation)	Margined Splashed Bi-colored Spotted shaded others	NA	NA
57 Variegation color (measurement)	(Color of variegation pattern of a bract in full bloom)	NA	NA
58 Pistil color (observation)	White Yellowish white Greenish white Yellow green Green others	Yellow green Not coded	Yellow green Not coded
59 Stigma color (observation)	White Yellowish white Greenish white Yellow green Green others	Dark Green (Not Coded)	Green (Not Coded)
60 Peduncle thickness (measurement)	Thin Medium thick	Medium	Medium
61 Peduncle length (measurement)	Short Medium long	Long (mean of 6.8 cm)	Medium
62 Peduncle color (observation)	Yellowish white yellow Yellow green Green Crimson brown others	Yellow green 144B	Yellow green 144B

TABLE 2-continued

Characteristics of Pam's Mountain Bouquet' Color Descriptions are based upon the Royal Horticultural Society's (RHS) colour chart, 2001.			
Character	Generalized Characteristics	'Pam's Mountain Bouquet'	Comparative Variety (Milky Way Select)
63 Fruit shape (observation)	Elliptical Ovate Obovate Globose others	Globose	Globose
64 Fruit length (measurement)	Short Medium long	Medium (about 4 cm)	Medium
65 Fruit width (measurement)	Narrow Medium wide	Medium (about 4 cm)	Medium
66 Fruit color (observation)	Yellow Orange Crimson Purplish black Black others	Unripe:143B; Ripe 33B to 43A. Highly variable depending on ripeness	Ripe: 33B to 44A Highly variable depending on ripeness
67 Fragrance (observation)	Absent present	Absent	Absent
68 Seed fertility (observation)	Sterile Low Medium high	High	High
69 Time to the first flowering (observation)	Early Medium late	Medium (April-mid-May)	Medium
70 Blooming habit (observation)	Few Medium many	Many	Many
71 Flowering season (observation)	One season flowering Recurrent blooming others	One season flowering	One season flowering
72 Flowering time (observation)	Early Medium late	Medium	Medium
73 Deciduous or evergreen (observation)	Deciduous Half-deciduous evergreen	Deciduous	Deciduous
74 Cold hardiness (observation)	Weak Medium strong	Medium (to -20° C.—no effect)	Medium
75 Heat tolerance (observation)	Weak Medium strong	Strong (to 40° C.—no effect)	Strong
76 Pest resistance (observation)	Weak Medium strong	Strong (no specific pests noted; resistant to dogwood anthracnose and powdery mildew)	Strong
77 Disease resistance (observation)	Weak Medium strong	Strong	Strong
78			
79 Bark color	n/a	Grayed-Green 198B	Not observed
80 Bark texture	n/a	Smooth	Not observed
81 Angle of Emerging Branches	n/a	20°-30° from vertical stem	Not observed
82 Time to first leaf bud burst	n/a	Mid- to late-April	Not observed
83 Leaf Vein color	n/a	Green-Grayed 192A	Not observed

TABLE 2-continued

Characteristics of Pam's Mountain Bouquet' Color Descriptions are based upon the Royal Horticultural Society's (RHS) colour chart, 2001.			
Character	Generalized Characteristics	'Pam's Mountain Bouquet'	Comparative Variety (Milky Way Select)
84 Immature Leaf color	n/a	Similar to fully expanded leaf color	Not observed
85 Bract base	n/a	Truncate	Not observed
86 Bract margin	n/a	Entire	Not observed
87 Vestiture	n/a	Puberulous, reticulate	Not observed
88 Flower/inflorescence number	n/a	Mean = 34	Not observed
89 Seed shape	n/a	Flattened along length	Not observed
90 Seed color	n/a	Grayed Yellow 162D	Not observed
91 Seed number	n/a	0-17 per fruit	Not observed
92 Bloom duration	n/a	3-5 weeks (dried, dead bracts are retained as a "collar" on peduncle until fruit fall in Autumn)	Not observed
93 Time of Fruit Ripening	n/a	Begins mid- to late-August through October	Not observed
94 Trunk diameter (at approximately breast height)	n/a	18 cm at 15 years of age	Not observed
95 Anther color	n/a	Grayed-purple N186	Not observed
96 Flower petal color	n/a	Yellow-green 145C	Not observed
97 Style/Stigma description	n/a	Inconspicuous	Not observed

Botanical classification: *Cornus kousa* 'Pam's Mountain Bouquet'.

Unique features: This tree features heavy flowering and exhibits fused bracts. About 82% of all bracts on the cultivar exhibit some degree of fusion (one side, two sides or three to four sides being fused; see data in Table 3).

TABLE 3

Cornus kousa 'Pam's Mountain Bouquet' bract characteristics.				
Year	Not fused	One side fused	Two sides fused	3-4 sides fused
2008 (n = 50)	7 (14%)	3 (6%)	12 (24%)	28 (56%)
2009 (n = 50)	10 (20%)	1 (2%)	4 (8%)	35 (70%)
2011 (n = 50)	9 (18%)	5 (10%)	9 (18%)	27 (54%)
Mean	9 (18%)	3 (6%)	8 (16%)	30 (60%)

All categories of fused bracts=82%.
Disease susceptibility: None noted. Powdery mildew caused by *Erysiphe pulchra* and dogwood anthracnose *Discula destructiva* were not observed. Nearby *C. florida* (flowering dogwood) trees were heavily infested with powdery mildew, but not dogwood anthracnose.
Insect damage: None noted.

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Auge, R. M., M. T. Windham, J. L. Moore, W. T. Witte, E. Kubikova, W. E. Klingeman, R. M. Evans, J. H. Reiss, P. C. Flanagan, and A. M. Saxton. 2002. Leaf curl and water relations of *kousa* dogwoods showing resistance to summer stress. *J. Environ. Hort.* 20 (3):143-147.

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tivars and lines of *Cornus florida* and *C. kousa* based on microsatellite loci. *J. Amer. Soc. Hort. Sci.* 133 (6): 783-793.

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Wadl, P. W., Windham, M. T., Evans, R., Trigiano, R. N. 2014. Three New Cultivars of *Cornus kousa*: Empire, Pam's Mountain Bouquet, and Red Steeple. *HortScience* 49 (9): 1230-1233.

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 <223> OTHER INFORMATION: Primer sequence

 <400> SEQUENCE: 22

 gttaaaacga agaagataca acaa 24

We claim:

1. A new and distinct cultivar of Dogwood tree, *Cornus kousa*, named 'PAM'S MOUNTAIN BOUQUET', as illustrated and described. 45

* * * * *

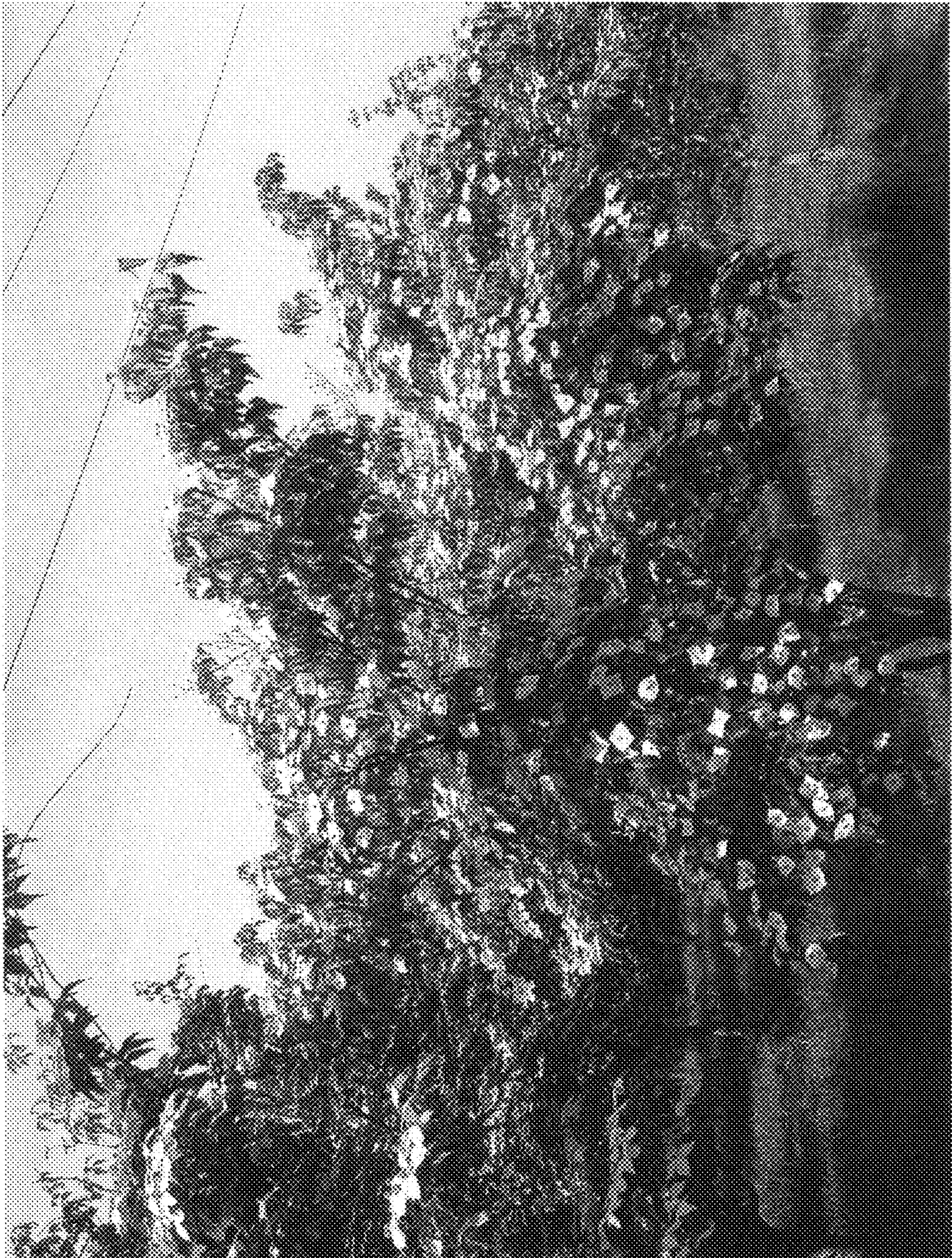


FIG. 1

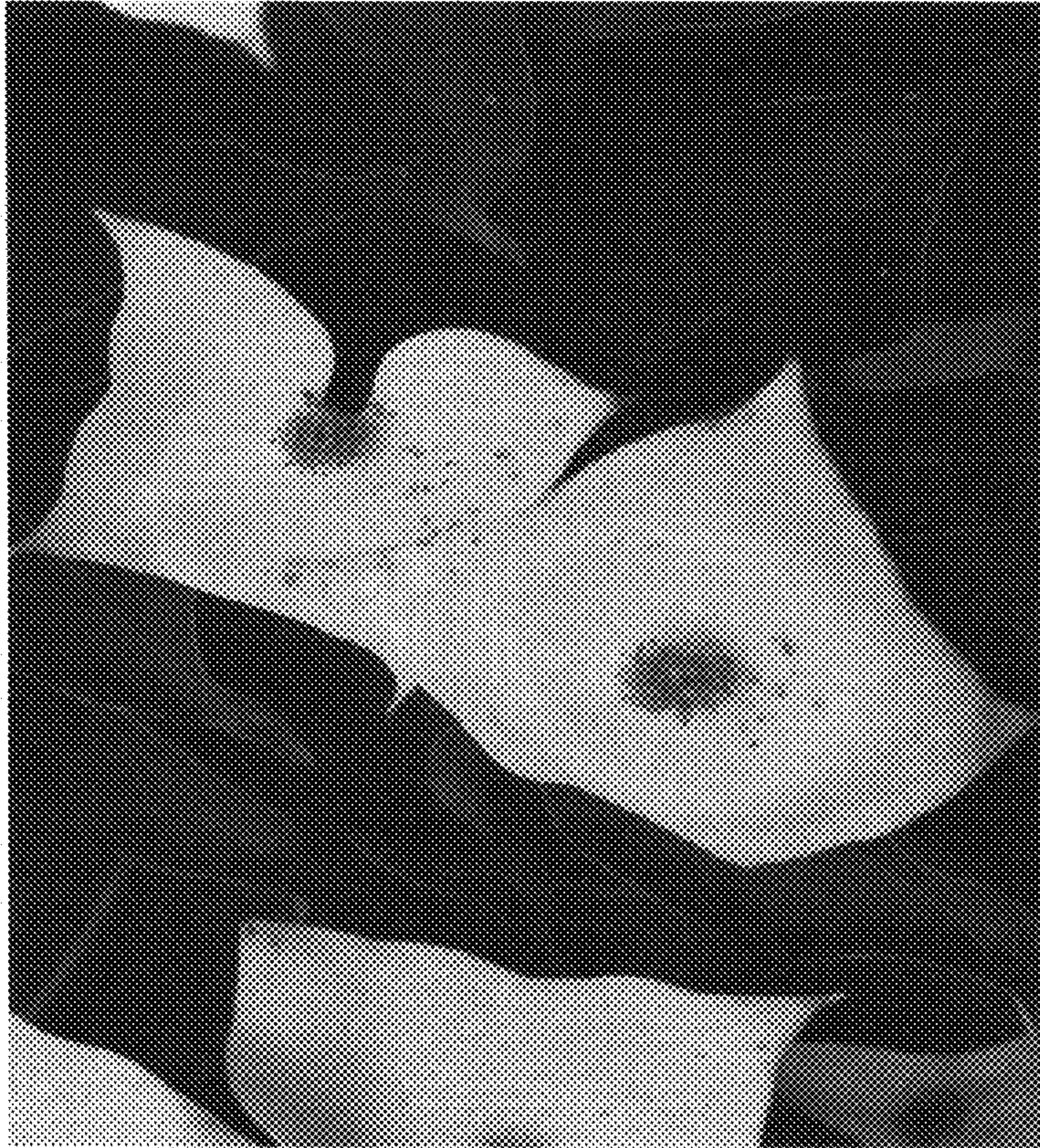


FIG. 2B



FIG. 2A

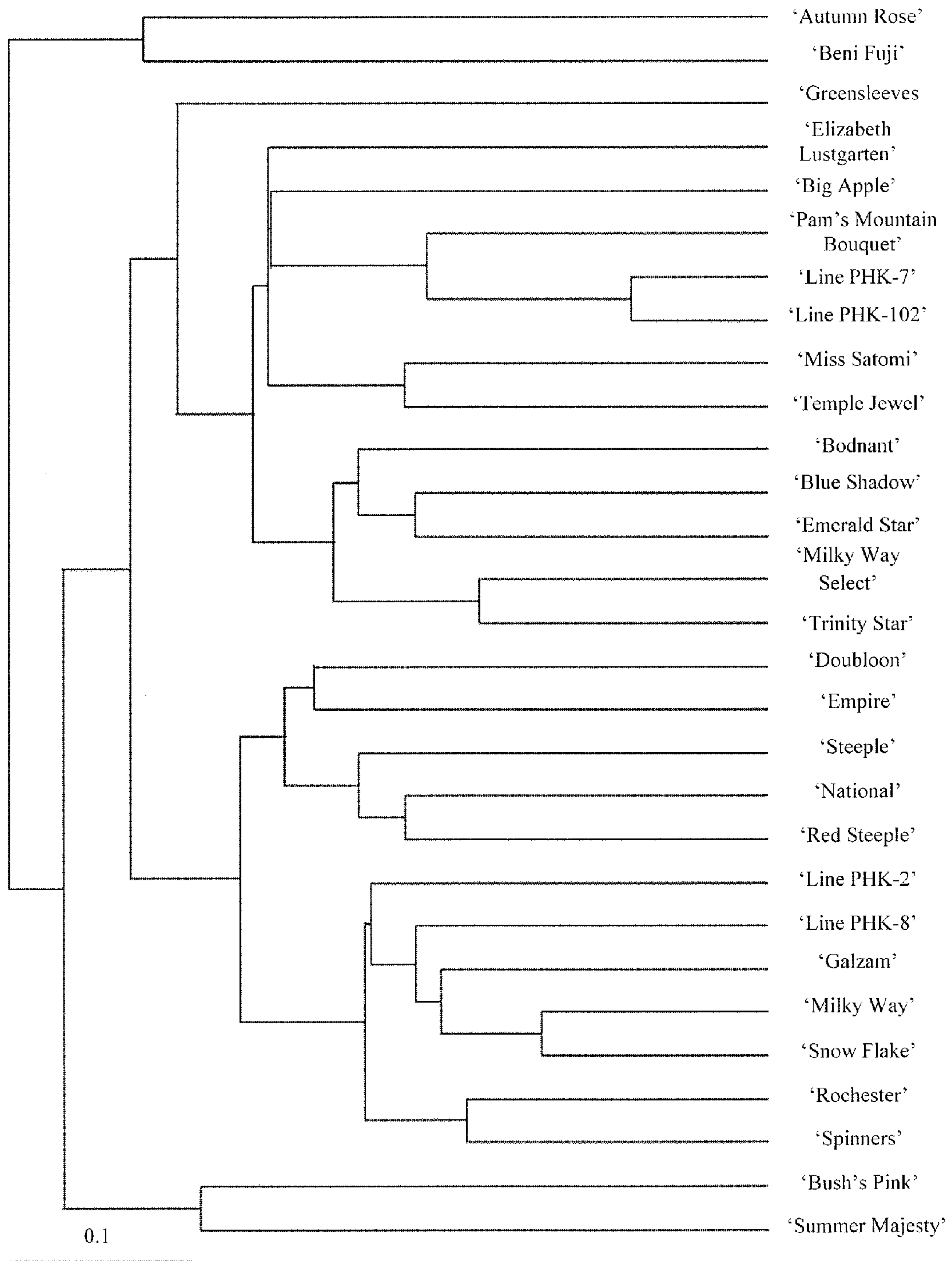


FIG. 3

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION

PATENT NO. : PP25,575 P3
APPLICATION NO. : 13/506624
DATED : May 26, 2015
INVENTOR(S) : Trigiano et al.

Page 1 of 1

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

In the specification

Column 4,

Line 21, "Characteristics of Pam's Mountain Bouquet" should read

--Characteristics of 'Pam's Mountain Bouquet'--.

Column 8,

Lines 13-14,

"49 Whole shape of bracts Oblong Obovate
Elliptical Ovate"

should read

--49 Whole shape of bracts Oblong Ovate Obovate--.
Elliptical

Lines 17-18,

"50 Shape of bract apex Acuminate Acuminate
Acute Acuminate"

should read

--50 Shape of bract apex Acuminate Acuminate Acuminate--.
Acute

Signed and Sealed this
Thirteenth Day of October, 2015



Michelle K. Lee
Director of the United States Patent and Trademark Office