



US00PP25575P3

(12) **United States Plant Patent**
Trigiano et al.(10) **Patent No.:** US PP25,575 P3
(45) **Date of Patent:** May 26, 2015

- (54) **CORNUS KOUSA TREE NAMED 'PAM'S MOUNTAIN BOUQUET'**
- (50) Latin Name: *Cornus kousa*
Varietal Denomination: **Pam's mountain bouquet**
- (75) Inventors: **Robert N. Trigiano**, Maryville, TN (US); **Phillip A. Wadl**, Powell, TN (US); **Mark T. Windham**, Knoxville, TN (US); **Richard M. Evans**, Oak Ridge, TN (US)
- (73) Assignee: **University of Tennessee Research Foundation**, Knoxville, TN (US)
- (*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 165 days.

(21) Appl. No.: **13/506,624**(22) Filed: **May 3, 2012**(65) **Prior Publication Data**

US 2013/0298297 P1 Nov. 7, 2013

(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 *Erisiphe 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

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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 acces- sion no.	Locus	Primer sequences (5'-3')	Repeat
EU544308	CK005	F : GCATTTGTCCTTGTTGACAT (SEQ ID NO: 1) R : TTTTCGCGAAGTGTCTCTAC (SEQ ID NO: 2)	(AC) ₂₀
EU125522	CK007	F : GAGCCCAGAAGAAGAATATAGAC (SEQ ID NO: 3) R : ATATAATTGGGTTGGGTTTG (SEQ ID NO: 4)	(AG) ₈
EU125523	CK015	F : GTCAAATTTGATCTTCTCT (SEQ ID NO: 5) R : GGAGAGACAGAGTACAGTAGAGGT (SEQ ID NO: 6)	(CT) ₁₀
EU125524	CK029	F : AATTAGGTTAAGGTTTGATTG (SEQ ID NO: 7) R : AGAGAGAATAGGTTACAGCATCAT (SEQ ID NO: 8)	(TC) ₈
EU125525	CK031	F : TGCACTGCTTACAGAAACAAT (SEQ ID NO: 9) R : TATGACGAGATTGTATAAGTTGCT (SEQ ID NO: 10)	(CT) ₇
EU125526	CK040	F : CCAAGTCAGTTGGTAGTAATT (SEQ ID NO: 11) R : AGTGCAACTTTACTTGCTATGT (SEQ ID NO: 12)	(GT) ₁₆
EU125529	CK048	F : ACCAACCAAAAGAAGTATAAAGAA (SEQ ID NO: 13) R : CCTATAAATAAGGAGTGATTGGT (SEQ ID NO: 14)	(TA) ₆
EU544309	CK058	F : CTTAAGTCACAAAGACAATGAAAT (SEQ ID NO: 15) R : AAGAGAGTTCAGATTATCTTGC (SEQ ID NO: 16)	(GT) ₁₀
EU544310	CK070	F : CTTTCTACACCCTTAACAAGTG (SEQ ID NO: 17) R : TAGACAATATGTGCTTAATTGGTT (SEQ ID NO: 18)	(GT) ₉

TABLE 1-continued

GenBank acces- sion no.	Locus	Primer sequences (5'-3')	Repeat
EU544311	CK071	F : CTGCTCGGTTAAGGTATGTT (SEQ ID NO: 19) R : TTTAAAGTGCCTGTATACATAA AT (SEQ ID NO: 20)	(TG) ₉
EU544312	CK072	F : AGCACTCATAGTCCTTGCAC (SEQ ID NO: 21) R : GTTAAAACGAAGAAGATACAACAA (SEQ ID NO: 22)	(GT) ₁₀

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'	'Pam's Mountain Bouquet'	Comparative Variety (Milky Way Select)
1 Tree form (observation)	upright semi-upright spreading weeping others			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	Yellow Yellow green Green Purplish crimson	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 Orbicicular 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)
5	21 Presence of anthocyanin (observation) Coloration by anthocyanin on the immature leaf upperside	Absent present	Absent
10	22 Color of leaf upperside (observation) Color of mature leaf upperside	Yellow Yellow green Green Grayish green Purplish crimson Crimson others	Green 143B 146A
15	23 Color of leaf lowerside (observation) Color of mature leaf lowerside	Yellow Yellow green Light green Green Dark green Grayish green	Light Green 146B 137A
20	24 Seasonal change of a mature leaf (observation)	Unchanged changed	Changed
25	25 Color of leaves in autumn (observation)	Yellow Orange Crimson others	Red 10C -46A
30	26 Leaf variegation (observation) Variegation on leaf upperside	Not variegated variegated	Not variegated
35	27 Variegation pattern (observation) Pattern of variegation on a leaf upperside	Spotted Splashed Margined Centered Blotched others	NA
40	28 Variegation color (observation)	White Yellowish white white Greenish white Yellow Yellow Green Green Crimson others	NA
45	29 seasonal change of variegation color (observation)	Unchanged changed	NA
50	30 Hair on leaf upperside (observation)	None Low Medium hair density on a mature leaf upperside	None
55	31 Hair on leaf lowerside (observation)	None Low Medium hair density on a mature leaf lowerside	None
60			
65			

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TABLE 2-continued

Characteristics of Pam's Mountain Bouquet [*] Color Descriptions are based upon the Royal Horticultural Society's (RHS) colour chart, 2001.				Comparative Variety (Milky Way Select)	Character	Generalized Characteristics	'Pam's Mountain Bouquet'	Comparative Variety (Milky Way Select)
Character	Generalized Characteristics	'Pam's Mountain Bouquet'	Comparative Variety (Milky Way Select)					
32 Petiole length (measurement)	Short Medium Long	Short (about 1.5-2.5 cm.)	Medium	10	48 Bract twisting (observation)	None Weak Medium strong	None	None
Length from the base of blade to the base petiole	Very long				49 Whole shape of bracts (observation)	Oblong Elliptical Ovate Obovate Orbicular others	Obovate Ovate	
33 Petiole width (measurement)	Narrow Medium The maximum width of a mature leaf petiole	Medium (<8 mm)	Medium	15	50 Shape of bract apex (observation)	Acuminate Acute Abtuse Rotundate Emarginated others	Acuminate Acuminate	
Petiole color (observation)	Yellowish white Yellow Green Green Crimson others	Green 143B	Green 143B	20	51 Bract length (measurement)	Short Medium Long	Medium	Medium
35 Inflorescence type (observation)	Corymb Umbel Head others	Umbel	Umbel	25	52 Bract width (measurement)	Narrow Medium wide	FUSED	Medium
36 Inflorescence direction (observation)	Upright Horizontal pendulous	Upright	Upright		53 Number of bracts (measurement)	Few Medium(4) Many(over 10)	FUSED, but 4	Medium(4)
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	30	54 Bract color (measurement)	(color of bract in full bloom)	155A (immature: 157A)	155A
				35	55 Bract variegation (observation)	Not variegated variegated	Not variegated	Not variegated
					56 Variegation pattern (observation)	Margined Splashed Bi-colored	NA	NA
38 Flower diameter (measurement)	Small Medium Large Very large	Small	Small		57 Variegation color (measurement)	Spotted shaded others	NA	NA
39 Floret diameter (measurement)	Small Medium Large	Small	Small	40		(Color of variegation pattern of a bract in full bloom)		
40 Floret color (observation)	White Yellowish white Greenish yellow Light Green others	Yellow 150C	Greenish yellow 150C	45	58 Pistil color (observation)	White Yellowish white	Yellow green Not coded	Yellow green Not coded
41 Bract type (observation)	Single Semi-double Full-double others	83% are FUSED; 17% are Single (see Table 3)	Single and unfused			Greenish white		
42 Uniformity of bract size (observation)	Not uniform uniform	Not uniform	Uniform	50	59 Stigma color (observation)	Yellow green Green others	Dark Green (Not Coded)	Green (Not Coded)
43 Bract over- lapping (observation)	Not overlap Slightly overlap overlap	No overlap -- fused	Slightly overlap			Yellow green Green others		
44 Bract orientation (observation)	Ascending Horizontal arching	Recurved, Reflexed, or Flat	Horizontal	55	60 Peduncle thickness (measurement)	Thin Medium thick	Medium	Medium
45 Bract rolling (observation)	Rolling inward Horizontal	Varies (may roll inward or outward)	Horizontal		61 Peduncle length (measurement)	Short Medium long	Long (mean of 6.8 cm)	Medium
46 Degree of bract rolling (observation)	Rolling outward Weak Medium strong	outward strong	Weak	60	62 Peduncle color (observation)	Yellowish white yellow	Yellow green 144B	Yellow green 144B
47 Bract curvature (observation)	In-curved Horizontal Out-curved	Varies (can be recurved, flat, or reflexed)	Horizontal	65		Yellow green Green Crimson brown others		

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TABLE 2-continued

Characteristics of Pam's Mountain Bouquet [*] Color Descriptions are based upon the Royal Horticultural Society's (RHS) colour chart, 2001.				Comparative Variety (Milky Way Select)	Character	Generalized Characteristics	'Pam's Mountain Bouquet'	Comparative Variety (Milky Way Select)
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	NA	NA					
57 Variegation color (measurement)	Spotted shaded others	NA	NA					
58 Pistil color (observation)	White Yellowish white	Yellow green Not coded	Yellow green Not coded					
59 Stigma color (observation)	White Yellowish white	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 144B	Yellow green 144B					

TABLE 2-continued

Characteristics of Pam's Mountain Bouquet ^a 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	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-Greyed 192A	Not observed

TABLE 2-continued

Characteristics of Pam's Mountain Bouquet ^a 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)
5			
10	84 Immature Leaf color	n/a	Similar to fully expanded leaf color
	85 Bract base	n/a	Truncate
15	86 Bract margin	n/a	Entire
	87 Vestiture	n/a	Puberulous, reticulate
20	88 Flower/inflorescence number	n/a	Mean = 34
	89 Seed shape	n/a	Flattened along length
	90 Seed color	n/a	Greyed Yellow 162D
	91 Seed number	n/a	0-17 per fruit
25	92 Bloom duration	n/a	3-5 weeks (dried, dead bracts are retained as a "collar" on peduncle until fruit fall in Autumn)
30	93 Time of Fruit Ripening	n/a	Begins mid- to late-August through October
	94 Trunk diameter (at approximately breast height)	n/a	18 cm at 15 years of age
35	95 Anther color	n/a	Greyed-purple N186
	96 Flower petal color	n/a	Yellow-green 145C
	97 Style/Stigma description	n/a	Inconspicuous

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	
55	2008 (n = 50) 2009 (n = 50) 2011 (n = 50) Mean	7 (14%) 10 (20%) 9 (18%) 9 (18%)	3 (6%) 1 (2%) 5 (10%) 3 (6%)	12 (24%) 4 (8%) 9 (18%) 8 (16%)	28 (56%) 35 (70%) 27 (54%) 30 (60%)

60 All categories of fused bracts=82%.

Disease susceptibility: None noted. Powdery mildew caused by *Erisiphe 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.

REFERENCES

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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- continued

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<213> ORGANISM: Artificial Sequence
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25

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<210> SEQ ID NO 21
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<213> ORGANISM: Artificial Sequence
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<400> SEQUENCE: 21

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20

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<223> OTHER INFORMATION: Primer sequence

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<400> SEQUENCE: 22

gttaaacga 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

* * * * *

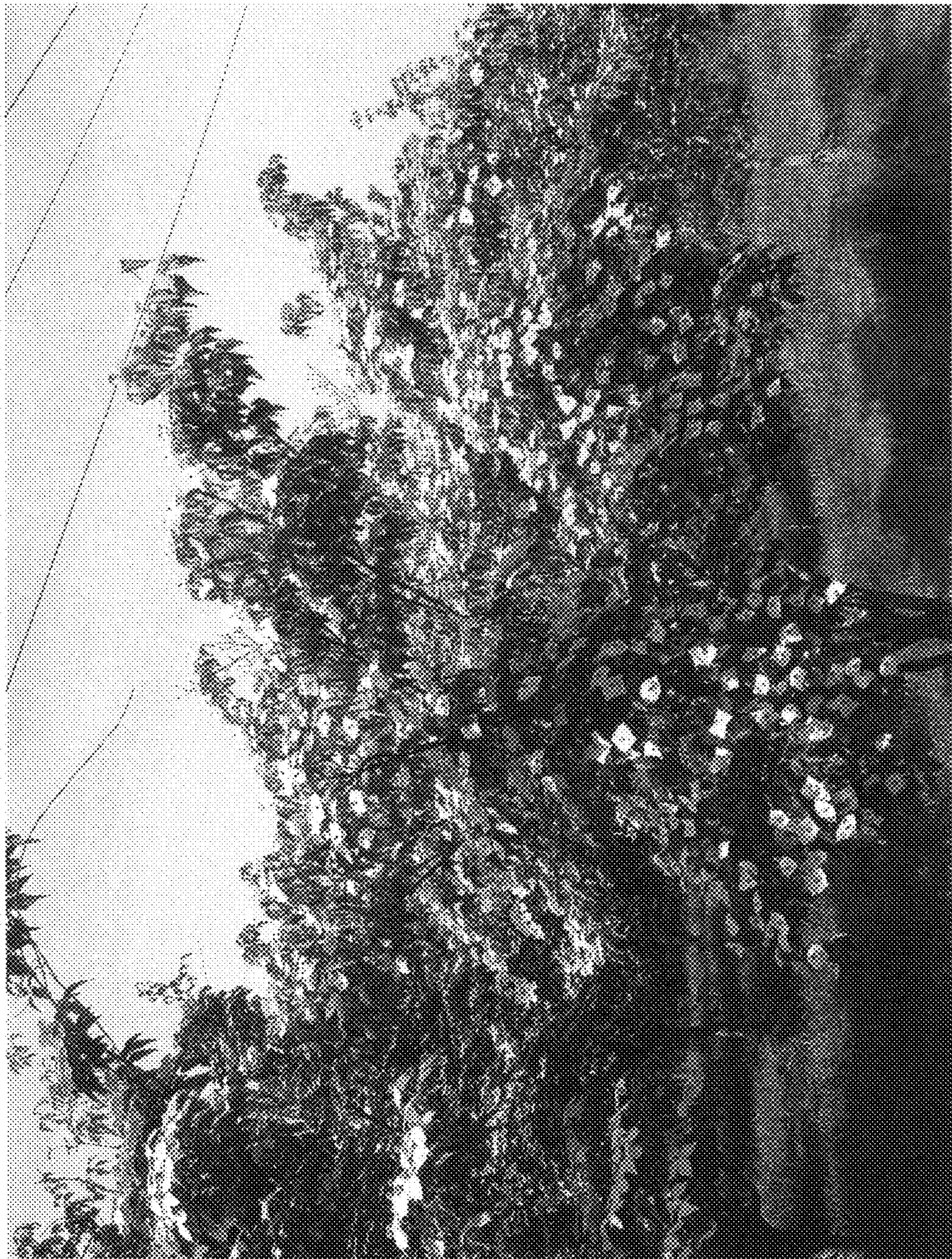


FIG. 1

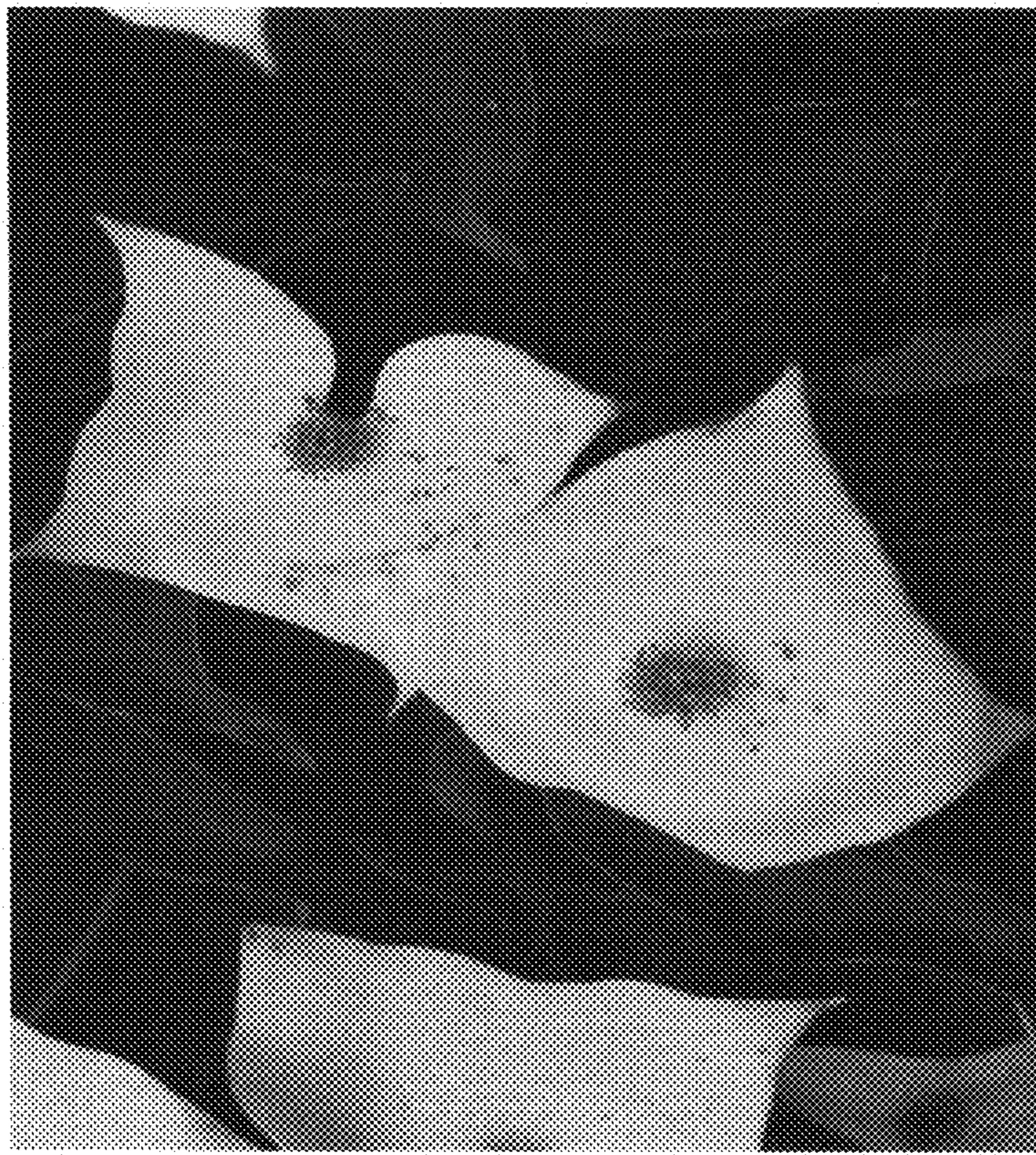


FIG. 2B



FIG. 2A

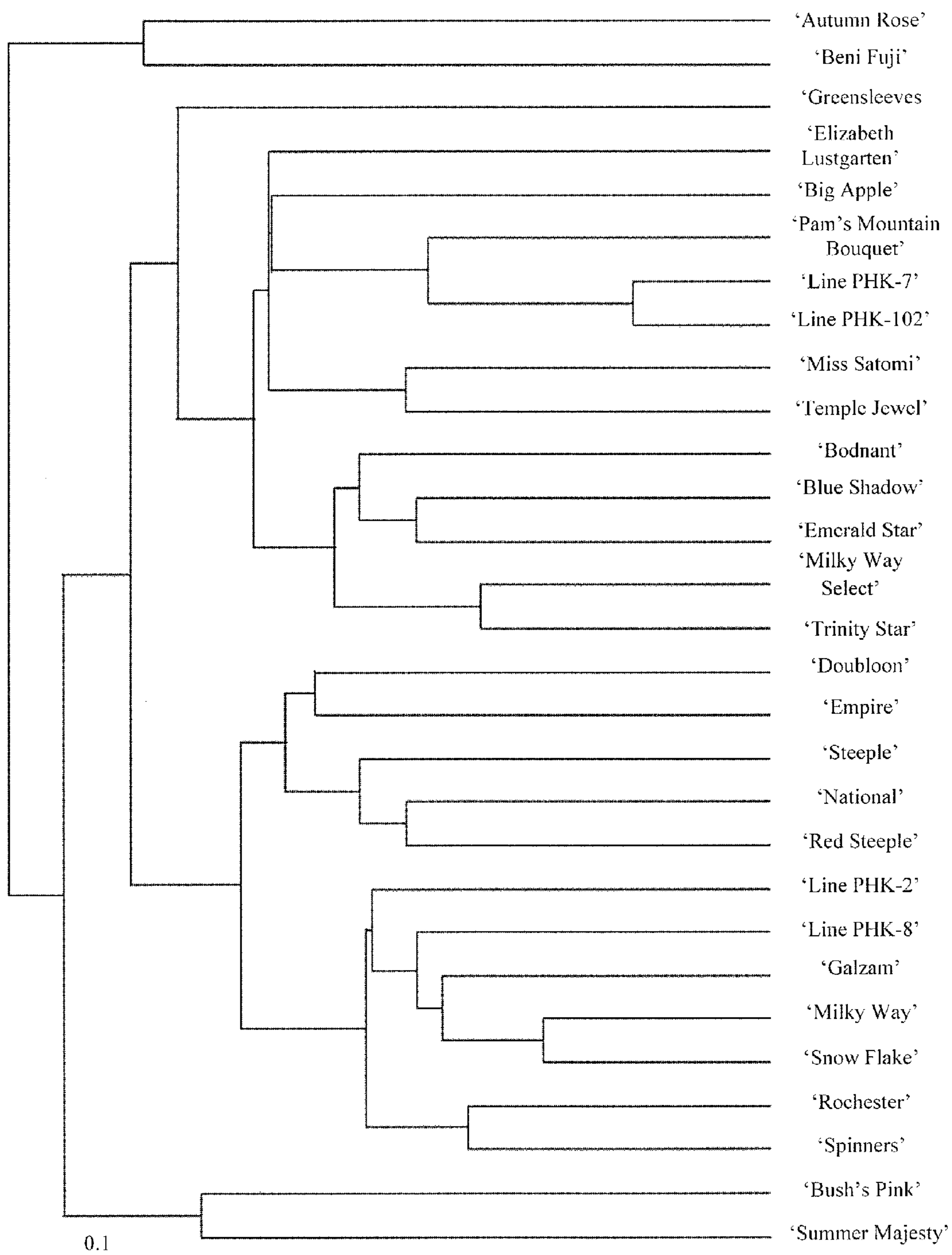


FIG. 3

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,

should read
"49 Whole shape of Oblong Obovate
bracts Elliptical Ovate"
--49 Whole shape of Oblong Ovate Obovate--.
bracts Elliptical

Lines 17-18,

should read
"50 Shape of bract Acuminate Acuminate
apex Acute Acuminate"
--50 Shape of bract Acuminate Acuminate Acuminate--.
apex Acute

Signed and Sealed this
Thirteenth Day of October, 2015



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