# United States Patent [19]

## van de Werken

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[54]	FORSYTHIA PLANT NAMED 'FAIRY-LAND'			
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[21]	Appl. No.:	271,665		
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_	U.S. Cl			
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#### [57] ABSTRACT

A new cultivar of Forsythia named 'Fairy-Land' characterized by its relatively small shrub size, its small lanceolate foliage, and the varying number, between four and eight, of petals on its flowers.

### 3 Drawing Sheets

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This invention relates to a new cultivar of Forsythia named "Fairy-Land", which is characterized especially by its small overall size, its simple, minimally serrate, lanceolate foliage, and the varying number of flower petals, from four to eight, on a single corolla.

The new variety was derived as a seedling from a vegetative line of mutants, which had been produced in turn by subjecting rooted cuttings of the parent Forsythia intermedia 'Lynwood Gold' (a sport of F. intermedia "Spectabilis") to irradiation with 1,200 rad fast 10 neutrons.

In 1968, three hundred cuttings of "Lynwood Gold" that had been potted and held in cold storage (38° F.) for six weeks and then returned to the greenhouse for two days were irradiated with 1200 rad fast neutrons. 15 One of the plants of this group that broke dormancy formed a shoot with variegated foliage. This plant was cut back repeatedly to induce branching and eventually formed shoots that exhibited different characteristics. Each shoot was propagated by stem cuttings over 10 vegetative generations of selection and propagation. From this plant population two vegetatively selected types and three seedlings were selected. Further propagation and testing of these selections over several more years were shown to be the stable and new forsythia varieties that are the subject of this and four other copending plant patent applications; viz:

Ser. No.	Name	Type	3
272,063 273,489 271,919 271,665 271,666	Lemon-Screen" "Tinkle Bells" "Minikin" "Fairy Land" "Pygmy-Red"	vegetative selection vegetative selection seedling seedling seedling	······································

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Each differs greatly from the parent "Lynwood Gold" and also from one another.

"Fairy-Land" was selected at the seedling stage because of its bright green color, small linear foliage, and short internodes. Cuttings from this plant have been rooted in soil and asexually propagated, and its progeny have displayed homogeneous and stable characteristics.

Throughout this specification, color names beginning with a small letter signify that the name of the color as used in common speech are aptly descriptive. Color names beginning with a capital letter designate values based on the R.H.S. Colour Chart, published by The Royal Horticultural Society of London, England.

The accompanying drawings illustrate the new variety in color as grown in Knox County within the State of Tennessee.

FIG. 1 illustrates "Fairy-Land" as a 5½ old plant in bloom in the spring.

FIG. 2 shows flowered cut stems of "Fairy-Land".

FIG. 3 is a close-up view of the flowers of FIG. 2.

FIG. 4 illustrates the "Fairy-Land" plant in summer foliage.

FIG. 5 is a closer view of the foliage shown in FIG. 4. The white label is 0.6 in. wide and 5 inches long.

The following characteristics distinguish "Fairy-Land" from its parent and other Forsythia cultivars:

#### THE PLANT

"Fairy-Land", because of its small overall stature (3' to 4' in height and 5' to 6' in width at maturity) and dense foliage as a young plant, is very well suited for culture in nursery plant containers. The plant exhibits good vigor for its size, is hardy to Zone 6b (or lower) and develops few seed pods. The low, broad, attractively dense and fine textured "Fairy-Land" plant form,

40

tip

4

both in bloom and when in leaf, make this cultivar suitable for a wide range of landscape applications.

Its parent, "Lynwood Gold", by contrast is tall and slender—a straight upright variety with erect stems and which attains a height of 6 ft. to 7½ ft. at maturity.

"Fairy-Land" is suited for applications ranging from mass planting and area delineation to use as a container plant on patios and plazas. Whereas, "Fairy-Land" shares several characteristics with the related Minikin cultivar, "Fairy-Land" is distinguished from Minikin in 10 its somewhat larger shrub size, larger foliage, larger flowers, and in the larger average number of petals per flower.

#### **FLOWER**

"Fairy-Land" flowers at an intermediate date with deep yellow flowers (Yellow 6A) about \(\frac{3}{4}\)" to 1\(\frac{1}{4}\)" in width and appear two to four per node, the internodes being \(\frac{1}{2}\) in. to 1 in. long. Although the flower petals generally number four, many of the blooms have five, 20 six, seven, or eight petals on a single corolla. The corolla lobes are small and reflexed. The pistils extend 3/25 in. to 4/25 in. above the pollen sacs of the stamen.

The "Lynwood Gold" parent is fertile and has pistils that extend well above its pollen sacs, is late flowering 25 and its medium sized flowers (about 1" to 1½" in diameter) are almost evenly spaced on the stem. The flowers of "Lynwood Gold" are brilliant yellow (lighter than its parent, F. Spectabilis). The corolla lobes of "Lynwood Gold" are reflexed and its petals are large, broad 30 open and elliptic.

#### **SHOOTS**

The shoots of "Fairy-Land" are light green when young and brownish green when mature. Its pith is 35 slightly lamellate between nodes.

The stems of the "Lynwood Gold" parent are green when young and brown when mature; they are a bit stiff; the pith at the nodes is lamellate, and on one year shoots, the stems between nodes are hollow.

#### **FOLIAGE**

The leaves of "Fairy-Land" are a rather light medium green on both young and mature plants. In the fall they are mostly faded yellow. The leaves are simple, lanceo- 45 late, acuminate at the tip and attenuate at the base. The leaves on flowering wood are 0.2 to 0.4 in. wide and 1½ to 2½ in. long and not serrate. On vegetative shoots the leaves are 0.5 in. to 0.6 in. wide and about 3 in. long and serrate on the top ½. Leaf venation is pinnate. A fine 50 textured appearance results from closely spaced foliage, particularly on the flowering wood, where the internodes are generally ¼ in. to less than 1 in.

The leaves of the "Lynwood Gold" parent, on the other hand, are ovate lanceolate in shape and about 3" 55 to 4½" long and about 1" to 1½" wide. Both young and old leaves are deep green in color.

To facilitate the comparison of the characteristics and features of "Fairy-Land", the subject of this application, and its parent, "Lynwood Gold" and also with the four 60 other new mutant offspring varieties of "Lynwood Gold" referred to above, there are attached hereto as Tables 1-5 comparative tabulations of the characteristics and properties of parent and its five offspring mutants that were developed from a single irradiated plant 65 of "Lynwood Gold." Table 1 compares "Fairy-Land" and its parent "Lynwood Gold". Table 2 compares "Fairy-Land" and "Pygmy-Red". Table 3 compares

"Fairy Land" and "Tinkle Bells". Table 4 compares "Fairy-Land" and "Minikin". Table 5 compares "Fairy-Land" and "Lemon Screen":

#### TABLE 1

	TABLE 1
	Ser. No. 271,665
· · · · · · · · · · · · · · · · · · ·	FAIRY LAND
7)1	
Plant	C-all averall & G-a tartural
Habit	Small overall & fine textured: Closely spaced flowers & leaves
	Dense (young) foilage
Size, height	3'-4'
Size, width	5'-6'
Vigor	Good vigor for size
Hardiness	Zone 6b (or lower)
Productivity	Few seed pods
<u>Stems</u>	
Color (young)	Light green
Color (mature)	Brownish green
Rigidity	Very flexible lamellate between
Leaves	nodes
<del></del>	Cila
Type Color	Simple
<del></del>	Madium assas (faisle Unbe)
(young) (mature)	Medium green (fairly light)  Medium green (fairly light)
(fall)	Mostly faded yellow
Shape	Lanceolate
tip	Accuminate
base .	Attenuate
margins	On flowering wood; entire
<b>c</b> :	On vegetative wood: serrate top 1
<u>Size</u>	
length	On flowering wood: 1½"-2½"
٠٠: ١	On vegatative shoots: about 3"
width	On flowering wood: 0.2"-0.4"  On vegetative shoots 0.5-0.6"
Venation	Pinnate
Flower	
Date of Flowering	Intermediate
Size: width	3"-11"
Color	Yellow (6A)
Corolla	
length	
lobes	Reflexed, small
Petals: number	Generally 4-many have 5, 6, 7 and
Diadila	8 on single corolla
Pistils	Extend 3/25" to 4/25" above pollen
Number per Node	sacs (anthers) of the stamen 2-4
Insertion angle	<b>&amp;</b> ─₹
on upright stems	
Internodes	¼" to about 1"
Stress Resistance:	
Utility Aspects:	Very well suited for
<del></del>	container culture
	LYNWOOD GOLD
Plant	
Habit	Tall, slender-Upright straight &
	erect stems
Size, height	6'-7 <u>1</u> '
Size, width	
Vigor Hardiness	
Productivity	Fertile
Stems	* *******
Color (young)	Green
Color (mature)	Brown
Rigidity	A bit stiff; pith nodes lamellate;
	hollow between nodes on one
_	year shoots
Leaves	
Type	•
Color	
(young)	Deep Green
(mature)	Deep Green
(fall)	
Shape tip	ovate lanceolate

TABLE 1-continued			TA:	BLE 2-continued
<del></del>	Ser. No. 271,665		Stress Resistance	
		_	Utility Aspects	Very well suited for
base		_	- <del>-</del>	container culture
margins Size		5 -		Ser. No. 271,666
Size	2 41"			PYGMY RED
length	3-4½" 1-13"	_	¥>1	
width Venation	1-1½"		Plant	
Flower			Habit	Low, loose graceful
	•	10		arching to ground
Date of Flowering	Late	10	Size, height	3½'-4½'
Size: width Color	1"-13" (medium) Brillant Yellow		Size, width	5'-6'
Color	(lighter than its parent		Vigor Hardiness	Good vigor Hardy Zone 6b (or lower)
	Spectabilis)		Productivity	Readily roots where branches
Corolla	Cpeciasiii,		roductivity	touch ground few seed pods
		15	Stems	toden Broama ten seen pous
length lobes	Reflexed			High anthocyanin
Petals: number	Large, broad, open		Color (young) Color (mature)	Purple Red (59A)
2 Clais. Hailoci	Elliptic		Rigidity	Flexible lamellate between nodes
Pistils	Extend well above pollen		Leaves	I TEXTOTE TEXTS COLORED
	sacs (anthers) of stamens			Simple
Number per node		20	Type Color	Simple
Insertion angle		. *	<del></del>	Darl. Casan
on upright stems	•		(young)	Dark Green
Internodes	Flowers almost evenly spaced		(mature)	Dark Green Anthogyanin (margon) expressed
	on stems		(fall)	Anthocyanin (maroon) expressed in full sun
Stress Resistance			Shape	Lanceolate (few lobed
Utility Aspects		25	Sirape	leaves on vegetative shoots)
-			tin	Accuminate
			tip base	Attenuate
	TABLE 2		margins	Serrate
······································	Ser. No. 271,665		Size	
	FAIRY LAND			2"-2½" on flowering wood;
		<del></del> 30	length	to 24" on vegatative wood
Plant			wideh	0.3"-0.4" on flowering wood:
Habit	Small overall & fine textured:		width	<del>-</del>
	Closely spaced flowers & leaves		Vanation	to 1" on vegetative wood Pinnate
	Dense (young) foliage		Venation Flower	rimate
Size, height	3'-4'			Y
Size, width	5'-6'	35	Date of Flowering	Intermediate
Vigor	Good vigor for size		Size: width	$1\frac{1}{4}'' - 1\frac{1}{2}''$
Hardiness	Zone 6b (or lower)		Color	Yellow (7A)
Productivity	Few seed pods		Corolla	
Stems			length	••
Color (young)	Light green		lobes	Narrow
Color (mature)	Brownish green	40	Petals: number Pistils	4 - sometimes 5 Extend 2/25"-3/25" above
Rigidity	Very slexible lamellate between		Ligitie	pollen sacs of stamens
_	nodes		Number per node	)
Leaves			Insertion angle	• · · · · · · · · · · · · · · · · · · ·
Type	Simple		on upright stems	
Color			Internodes	1"-1½" (1½" even on
(young)	Medium green (fairly light)	45		fast growing shoots)
(mature)	Medium green (fairly light)		Stress Resistance	disease and insect
(fall)	Mostly faded yellow		Utility Aspects	
Shape	Lanceolate	_		
tip	Accuminate			
base	Attenuate			TABLE 3
margins	On flowering wood; entire	50 _		
Ci	On vegetative wood: serrate top }			Ser. No. 271,665
Size		_		FAIRY LAND
length	On flowering wood: 1½"-2½"		Plant	
	On vegatative shoots: about 3"		Habit:	Small overall & fine textured:
width	On flowering wood: 0.2"-0.4"		- LHVIL.	Closely spaced flowers & leaves
\$/	On vegatative shoots 0.5-0.6"	55		Dense (young) foliage
Venation	Pinnate		Size, height	3'-4'
Flower	<b>-</b>		Size, width	5'-6'
Date of Flowering	Intermediate		Vigor	Good vigor for size
Size: width	₹"-11" Vallani (6.4.)		Hardiness	Zone 6b (or lower)
Color	Yellow (6A)		Productivity	Few seeds pods
Corolla		<b>6</b> 0	Stems	-
length			Color (young)	Light green
<b>-</b>	Reflexed, small		Color (young)  Color (mature)	Brownish green
_			Rigidity	Very flexible lamellate between
lobes	Generally 4-many have 5, 6, 7 and			. AT TIRUIDIE IMINERIAL CALLADI.
lobes Petals: number	Generally 4-many have 5, 6, 7 and 8 on single corolla		<b>-</b>	nodes
lobes Petals: number	Generally 4-many have 5, 6, 7 and 8 on single corolla Extend 3/25" to 4/25" above pollen		Leaves	nodes
lobes Petals: number Pistils	Generally 4-many have 5, 6, 7 and 8 on single corolla Extend 3/25" to 4/25" above pollen sacs (anthers) of the stamen	65	Leaves	
lobes Petals: number  Pistils  Number per node	Generally 4-many have 5, 6, 7 and 8 on single corolla Extend 3/25" to 4/25" above pollen	65	Type	nodes Simple
lobes Petals: number  Pistils  Number per node Insertion angle	Generally 4-many have 5, 6, 7 and 8 on single corolla Extend 3/25" to 4/25" above pollen sacs (anthers) of the stamen	65	Type Color	Simple
Iobes Petals: number  Pistils  Number per node Insertion angle on upright stems Internodes:	Generally 4-many have 5, 6, 7 and 8 on single corolla Extend 3/25" to 4/25" above pollen sacs (anthers) of the stamen	65	Type	

•

1 A.	BLE 3-continued		· · · · · · · · · · · · · · · · · · ·	TABLE 4
(fall) Shape	Mostly faded yellow  Lanceolate			Ser. No. 271,665 FAIRY LAND
tip	- Accuminate	_	***	
base	Attenuate	5	Plant	
margins	On flowering wood; entire		Habit	Small overall & fine textured:
· · · · · · · · · · · · · · · · · · ·	On vegetative wood: serrate top }			Closely spaced flowers & leaves
Size	On regetative wood, seriale top 3			Dense (young) foliage
Size	·		Size, height	3'-4'
length	On flowering wood: 1½"-2½"		Size, width	5'-6'
	on vegatative shoots: about 3"		Vigor	Good vigor for size
width	On flowering wood: 0.2"-0.4"	10	Hardiness	Zone 6b (or lower)
	On vegetative shoots 0.5-0.6"		Productivity	Few seed pods
Venation	Pinnate		Stems	rew seed pous
Flower				•
Date of Flowering	Intermediate		Color (young)	Light green
Size: width	₹''-1½''		Color (mature)	Brownish green
Color:	Yellow (6A)	15	Rigidity	Very flexible lamellate between
	I CHOW (UA)		•	nodes
Corolla			Leaves	
length			Type	Simple
iobes	Reflexed, small		Color	• • • • • • • • • • • • • • • • • • •
Petals: number	Generally 4-many have 5, 6, 7 and			N. P M
	8 on single corolla	30	(young)	Medium green (fairly light)
Pistils:	Extend 3/25" to 4/25" above pollen	20	(mature)	Medium green (fairly light)
	sacs (anthers) of the stamen		(fall)	Mostly faded yellow
Number per node:	2-4		Shape	Lanceolate
Insertion angle			tip	Accuminate
on upright stems:			base	Attenuate
Internodes:	½" to about 1"		margins	On flowering wood: entire
Stress Resistance:	4 10 a00ut 1	25	•	On vegetative wood: serrate top }
	Very wall suited for		Size	
Utility Aspects:	Very well suited for			O- Manuari 110 - 510
	container culture		length	On flowering wood: 1½"-2½"
	Ser. No. 273,489			On vegatative shoots: about 3"
	TINKLE BELLS		width	On flowering wood: 0.2"-0.4"
<u> </u>	***************************************	_		<ul> <li>On vegatative shoots 0.5-0.6"</li> </ul>
Plant		30	Venation	Pinnate
Habit:	Semi-dwarf: Upright		Flower	
Size, height	4'-4½'		Date of Flowering	Intermediate
Size, width	7 72		Size: width	3"-14"
	Madium vicas			· · · · ·
Vigor	Medium vigor		Color	Yellow (6A)
Hardiness	Hardy Zone 6b (or lower)	36	<u>Corolla</u>	
Productivity	Does not layer naturally (replicates	35	length	•
_	from stools (no seed pods observed)		lobes	Reflexed, small
Stems ,			Petals: number	Generally 4-many have 5, 6, 7 and
Color (young)	Yellow Green			8 on single corolla
Color (mature)	Light brown		Pistils	Extend 3/25" to 4/25" above polle
Rigidity	Sparsely lamellate between			sacs (anthers) of the stamen
•	nodes - Rigid	40	Númber per node	2-4
Leaves	•		Insertion angle	•
Type	Simple		on upright stems	•
· -	- Simple		Internodes	1" to about 1"
<u>Color</u>			Stress Resitance	,
(young)	Medium green		Utility Aspects	Very well suited for
(mature)	Medium green	AE	July respects	container culture
(fall)	Faded green to yellow	45 _		
Shape	Elliptical			Ser. No. 271,919
tip	Acute on flower shoots			MINIKIN
	accuminate on vegetative shoots	-	Diant	
base			Plant	
margins	serrate on upper 🖁 near tip		Habit	Small stature, fine textured; small
Size	•	. 50	·	leaves and small stems; densely
length	2"-3" (with petiole)			foliated
width	2 -3 (with penole)		Size, height	2'-21'
Venation	<b>2</b>		Size, width	3'-4'
	Pinnate		Vigor	Good vigor but slow growth
Flower			Hardiness	Zone 6b (or lower)
Date of Flowering	Early		Productivity	Layers naturally
Size: width	½"-¾" at 45° angle	55		Abundant seed pods
Color:	Bright Yellow (7B)		Stems	
Corolla	- • •			T:_L
length	I" open to 45° engle		Color (young)	Light green
	g" open to 45° angle		Color (mature)	Brownish green
lobes Detale averbee	not reflexed during prime		Rigidity	Ascending strongly
Petals: number	4; occasionally 5 or 6	<u>د</u> ۸	-	lamellate between nodes
Pistils:	short: anthers slightly	60	Leaves	-
<b>.</b> .	below stigma portion of pistil			Simple
Number per node:	2: often 4 per node		Type	ampie
Insertion angle	buds & flowers pendulous		Color	
on upright stems:	<b>▼</b>		(young)	Bright green to dark green
Internodes:	$\frac{1}{2}''-1\frac{1}{2}''$		(mature)	Bright green to dark green
Stress Resistance:	Disease and insect	65	(fall)	Fading green until leaf drop
Utility Aspects:	Can force flowering suitable	<del></del>	Shape	Linear
	for container culture		tip	Accuminate
<del></del>	IOI COIRAINEI CUITUIC		base	Attenuate
			~~~	
			margins	Lightly serrate

<b>y</b>		1U			
TABLE 4-continued			TABLE 5-continued		
Size length	On vegetative shoots-13" attached	_	Corolla length		
	to 1" long slender petiole; smaller on flowering shoots	5	lobes Petals: number	Reflexed, small Generally 4-many have 5, 6, 7 and	
width Venation Flower	On vegetative shoots - ½"; Pinnate		Pistils:	8 on single corolla  Extend 3/25" to 4/25" above pollen sacs (anthers) of the stamen	
Date of Flowering	Intermediate		Number per node: Insertion angle	2-4	
Size: width Color Corolla	i''-i'' (cup shaped) fully reflexed Yellow (9A)	10	on upright stems: Internodes: Stress Resistance:	≟" to about 1"	
length lobes	strongly reflexed, very small		Utility Aspects:	Very well suited for container culture	
Petals: number Pistils	4:- short and recurved Short: 1/25" below pollen sacs of stamens	15		Ser. No. 272,063 LEMON SCREEN	
Number per node	2-4		Plant		
Insertion angle on upright stems			Habit:	Tall, open and graceful; Upright, fan shape; vigorous: open foliage	
Internodes	Short (Flowering shoots \frac{1}{4}"  Vegetative shoots up to 2")	20	Size, height Size, width	Up to 10' Hardy Zone 6b (or lower)	
Stress Resistance	Doesn't require same degree of winter protection as most		Vigor Hardiness	Vigorous	
Utility Aspects	container grown plants of genre Blooming can be forced. Especially suited for container culture.		Productivity	Abundant Flowers/highly sterile/ pruned wood branches quickly	
<del>: ::::::::::::::::::::::::::::::::::</del>	Suited to: Container Culture.		Stems Color (young)		
		25	Color (mature)	Yellow	
	TABLE 5		Rigidity	Slightly lamellate between nodes	
	Ser. No. 271,665 FAIRY LAND		Leaves Type Color	Simple	
Plant	Small overall & fine textured:	30	(young)	Yellow green 151 B or Chartreuse (appear after flowering)	
Habit:	Closely spaced flowers & leaves  Dense (young) foliage		(mature)	Normal green (Yellow-Green 144) whitish blotches	
Size, height Size, width	3'-4' 5'-6'		(fall) Shape	Greyed Purple 187 B	
Vigor	Good vigor for size	35	tip bose	Accuminate	
Hardiness Productivity	Zone 6b (or lower) Few seed pods		margins Size	Attenuate Serrate	
Stems Color (young)	Light green		length width	Not distinguishing Not distinguishing	
Color (mature) Rigidity	Brownish green Very flexible lamellate between	40	Venation Flower	· Pinnate	
Leaves	nodes		Date of Flowering	Early	
Type Color	Simple		Size: width Color: Corolla	1½"-1¾" Yellow (6C)	
(young)	Medium green (fairly light)	45	length		

Lanceolate Accuminate Attenuate On flowering wood; entire 50

Medium green (fairly light)

Mostly faded yellow

margins On vegetative wood: serrate top 1/3 Size

On flowering wood: 1½"-2½" length On vegatative shoots: about 3" width On flowering wood: 0.2"-0.4" On vegatative shoots 0.5-0.6"

Venation Pinnate Flower

(mature)

(fall)

Shape

tip

base

Date of Flowering Intermediate ₹"-1¥" Size: width Color: Yellow (6A) What is claimed is:

1. A new and distinct cultivar of Forsythia named 'Fairy-Land', substantially as shown and described herein.

Somewhat reflexed

4 to 8

resistant

4, sometimes fasciated

aborted stamens &/or pistils

1" to 2" long on flowering wood

Summer foliage disease & insect

Summer pruning leads to shoot

with chartreuse leaves (young)

55

lobes

Pistils:

Petals: number

Insertion angle

Internodes:

Number per node:

on upright stems:

Stress Resistance:

Utility Aspects:

U.S. Patent

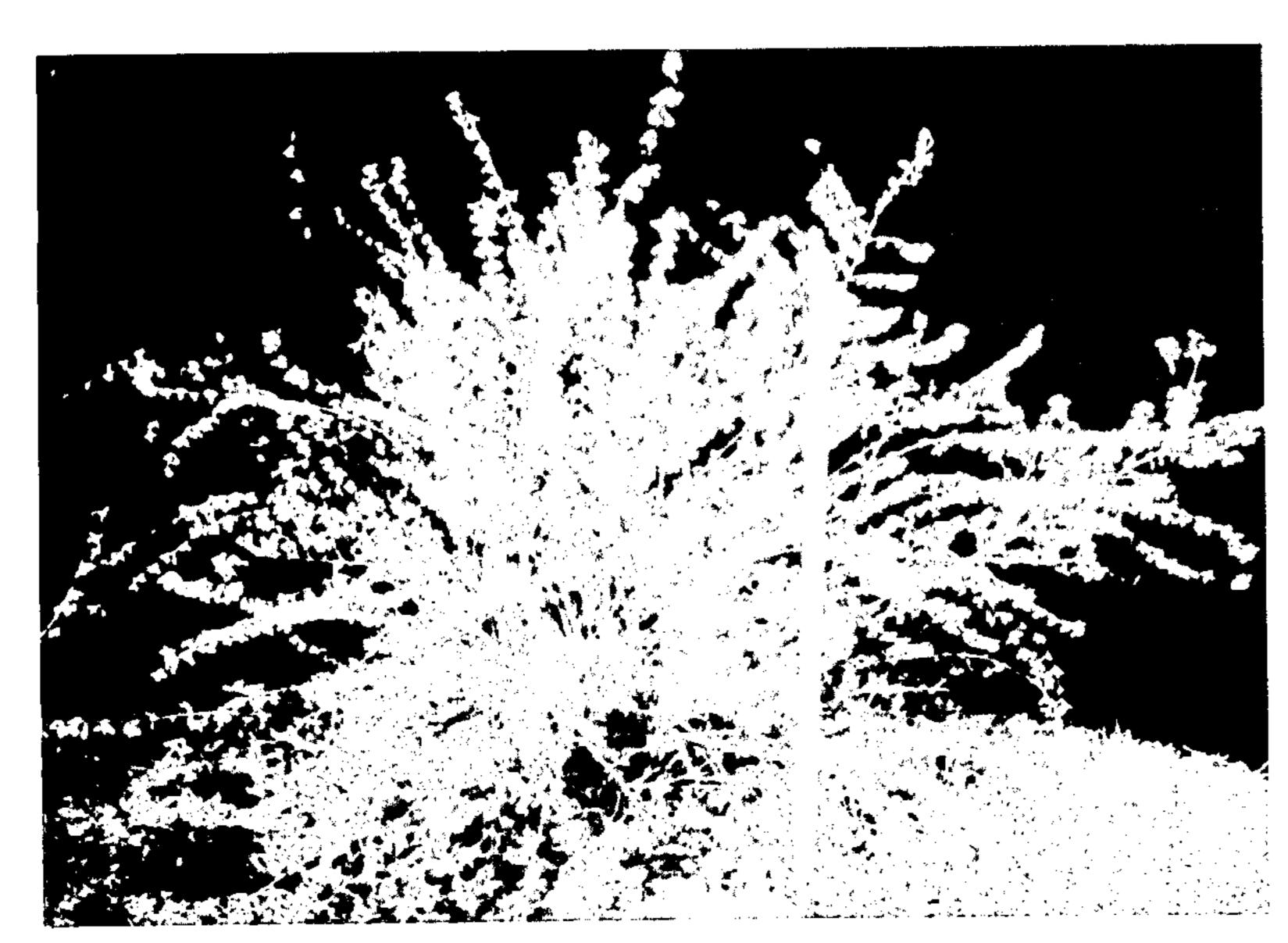






FIG 3



F | G. 4



F1G. 5