**(12) United States Plant Patent**  
**Hardison et al.****(10) Patent No.: US PP18,467 P2**  
**(45) Date of Patent: Jan. 29, 2008****(54) HYBRID VARIETY OF TEXAS X KENTUCKY BLUEGRASS DESIGNATED 'HB 129'****(50)** Latin Name: *Texas bluegrass*×*Kentucky bluegrass*  
Varietal Denomination: **HB 129****(75)** Inventors: **John R. Hardison**, Corvallis, OR (US);  
**Jay B. Burr**, Salem, OR (US); **James R. Frelich**, Salem, OR (US); **George Marquez**, Albany, OR (US)**(73)** Assignee: **OMS Investments, Inc.**, Los Angeles, CA (US)**(\*)** Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 155 days.**(21)** Appl. No.: **11/197,945****(22)** Filed: **Aug. 5, 2005****Related U.S. Application Data****(60)** Provisional application No. 60/599,539, filed on Aug. 6, 2004.**(51)** **Int. Cl.**  
**A01H 5/00** (2006.01)**(52)** **U.S. Cl.** ..... **Plt./393****(58)** **Field of Classification Search** ..... Plt./393,  
Plt./388

See application file for complete search history.

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## BACKGROUND OF THE INVENTION

## Field of the Invention

The present invention relates to a new and distinct hybrid variety of *Poa arachnifera* Torr.×*Poa pratensis* L. that has been designated as 'HB 129' bluegrass.

## Description of Related Art

A *Poa arachnifera*×*Poa pratensis* hybrid designated 'Reveille' has been disclosed in PVP Certificate No. 9800337.

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(57) **ABSTRACT**

A hybrid variety of Texas bluegrass×Kentucky bluegrass as described, characterized by rapid establishment; a light green, dense turf; a wide leaf blade; aggressive rhizome growth; a reduced level of cotton on the seed; and a medium to high seed yield potential.

**3 Drawing Sheets**

**2**

## SUMMARY OF THE VARIETY

'HB 129' bluegrass is the result of a plant selected from the progeny of Texas bluegrass (*Poa arachnifera* Torr.) female plant 10-10 (seed parent), with cv. 'Geronimo' Kentucky bluegrass (pollen parent)(*Poa pratensis* L.) cross for perfect flowers, apomixis and turfgrass performance characteristics in the F<sub>1</sub> generation.

Texas bluegrass female plant 10-10 is an unpatented, unreleased plant selected and maintained for its tiller



density, turf quality and the lack of male reproductive organs. The cv. 'Geronimo' is an unpatented, released Kentucky bluegrass of European origin from Mommersteeg International, Vlijmen, the Netherlands.

As a result of this breeding, a distinct variety was produced and asexually propagated by rhizomes, tillers and disseminules. The highly apomictic seed of 'HB 129' bluegrass was produced first at Gervais, Oreg. This seed was used to plant turf performance evaluation trials and later, seed production fields.

The seed of 'HB 129' has been found to be stable. Asexual production of 'HB 129' initially was performed at Gervais, Oreg. by propagules (tillers and rhizomes) and by disseminules (modified caryopses produced by apomixis), and has consistently produced progeny plants indistinguishable from the first generation asexual reproductions of the instant plant. The apomixis level of 'HB129' is approximately 95.0%. The apomixis level was determined by examining field planting of 'HB 129' in two years of rating for apomictic origin and from disseminules harvested over four growing seasons from field grown plants in Oregon.

'HB 129' has a number of highly desirable characteristics, including a high level of seedling vigor and rapid stand establishment; high sod strength; and provides a relatively high level of competition with *Poa annua* in the seedling year when compared to Kentucky bluegrass varieties. 'HB 129' has an upright leafy turf type, and a light green color which can be maintained throughout the entire growing season. 'HB 129' demonstrates good fall color and good winter color under mild winter conditions.

'HB 129' is an overall good turfgrass performer under reduced management conditions evidenced by good scores for quality under these conditions. 'HB 129' has little or no cotton (webbing) on the caryopsis. 'HB 129' has a medium to high seed yield potential in the Kentucky bluegrass seed production region of the northwestern United States and has shown the potential for economic seed production not seen in other *Poa arachniferaxPoa pratensis* hybrids.

In comparison with the Reveille hybrid, 'HB 129' has demonstrated relatively rapid germination and emergence in both fall and spring sowings. 'HB 129' has shown greatly reduced seed cotton as compared with 'Reveille'. It is believed that the presence of the cotton on the Reveille seed results in poor seed recovery of the hybrid and causes 'Reveille' to be available predominantly as a vegetatively reproduced product from rhizome and tiller materials.

Texas bluegrass is a vigorous sod-forming perennial native in the Southeastern and Southern Plains States. Plants grow up to 3 feet on strong soil, with numerous leaves 6 to 12 inches long and 0.025 inch wide. The grass grows throughout the winter producing abundant, nutritious pasture which is highly palatable. This is a valuable species where native, but seeding is difficult. The species is dioecious, with male and female plants. It produces only limited quantities of seed which is covered with woolly hairs that are difficult to remove. Consequently, establishment of stands for agricultural use is limited. Accordingly, Texas bluegrass exhibits similar problems to those encountered with Reveille which are overcome by the present 'HB 129' hybrid.

In comparison with a number of Kentucky bluegrass varieties 'HB 129' has an average to above-average seed size with a lower number of seeds per pound. The width of vegetative leaves of unmowed mature plants of 'HB 129' are of medium to wide, with longer ligules and with more hairs

on the upper margin of the ligule, fewer hairs on the collar margin and dorsal side of the leaf sheath than Kentucky bluegrasses. The culm is longer with a relatively long panicle when compared to Kentucky bluegrass varieties. Anther color is 100% purple distinguishing 'HB 129' from most Kentucky bluegrasses.

#### BRIEF DESCRIPTION OF THE DRAWING

FIG. 1 is an 'HB 129' panicle;

FIG. 2 is an 'HB 129' seed; and

FIG. 3 is an 'HB 129' plant shortly after completing anthesis.

#### DETAILED DESCRIPTION OF THE VARIETY

'HB 129' Texas bluegrass×Kentucky bluegrass (*Poa arachnifera* L.×*Poa pratensis* L.) hybrid is perennial with creeping rhizomes forming a dense turf. When plants overwinter in the field and grow undisturbed by clipping, culms are semi-erect averaging 64.8 cm in length. The vegetative leaf averages 4.5 mm in width. The flag leaf averages 6.65 cm in length, 3.55 mm in width, has a sheath length of 14.3 cm. The flag leaf averages more hairs on the ligule than other varieties. The panicle averages 10.8 cm in length. The lowest whorl of the panicle averages 4.4 branches.

For the vegetative leaf, the number of hairs is average for the leaf sheath margin, above average for the dorsal side of the leaf blade, above average for the upper margin of the ligule, and below average for the collar margin compared to other varieties. 'HB 129' differs from the Kentucky bluegrass varieties in regard to such morphological characteristics as seed length and width, culm length, and hairs on the collar margins of the vegetative leaf, on the upper surface of the vegetative leaf, on the ligule of the flag leaf and anther color.

'HB 129' produces inflorescences relatively early compared with Kentucky bluegrasses.

Since environmental conditions such as soil and climate may influence morphological characteristics to some extent, comparisons of 'HB 129' were made with Kentucky bluegrass varieties under like conditions and the comparisons are set forth in Tables 1–10, as follows.

TABLE 1

Variety	Comparison of heading date, seed yield, and plant height of 'HB 129' and other Kentucky bluegrass varieties for years 1 & 2.					
	Heading Date		Seed Yield		Plant Height	
	Year 1 (Julian)	Year 2	Year 1 (g/10 ft row)	Year 2	Year 1 (cm)	Year 2
'HB 129'	114.4	108.6	47.3	27.1	64.2	65.4
Midnight	126.3	136.3	33.4	12.0	54.2	45.5
America	125.3	122.8	29.2	20.4	40.1	43.3
Ram I	120.0	120.9	22.5	25.5	47.2	48.8
Julia	111.8	118.3	36.6	20.8	63.6	60.8
Baron	118.1	116.0	58.4	36.9	51.8	52.7
Adelphia	126.3	115.9	10.2	17.9	53.8	59.2
Nugget	121.1	114.5	4.7	4.3	34.3	30.1
Langara	118.1	114.3	31.9	34.8	46.2	56.0
Touchdown	105.4	107.3	55.9	13.0	57.6	58.7
LSD (0.05)	3.0	4.66	0.6	17.03	5.7	5.633

TABLE 2

Comparison of flag leaf position, length and width and flag leaf sheath length of 'HB 129' and other Kentucky bluegrass varieties for years 1 & 2.

Variety	Position Year 1	Length (mm)		Width (mm)		Sheath Length (cm)	
		Year 1	Year 2	Year 1	Year 2	Year 1	Year 2
'HB 129'	1.4	60	73	3.8	3.3	13.2	15.4
Moon-shadow	2.2	50	108	2.5	3.5	9.6	11.6
America	2.0	59	75	2.6	3.0	10.0	11.6
Baron	2.0	63	69	4.0	3.5	11.1	13.4
Langara	2.0	57	81	3.0	3.0	10.5	14.1
Midnight	2.0	74	86	3.4	3.2	10.7	11.4
Touchdown	1.6	60	81	3.5	3.6	12.9	16.4
Adelphia	1.5	53	79	3.3	3.2	10.7	13.4
Ram I	1.5	42	58	3.0	2.7	10.5	12.3
Julia	1.5	71	84	3.1	3.0	11.7	14.1
Nugget	1.4	29	41	2.2	2.1	7.4	9.0
LSD (0.05)	0.31	12.2	9.9	0.56	0.99	1.32	1.16

1 = Appressed  
2 = Open Angle

TABLE 3

Comparison of panicle color, habit, branch attitude, branches in lowest whorl, length and collar height for 'HB 129' and other Kentucky bluegrass varieties, year #1.

Variety	Panicle Characteristics		
	Color	Habit	Branch Attitude
'HB 129'	2.0	1.9	2.9
Touchdown	2.0	1.9	2.4
Baron	1.9	1.9	2.7
Midnight	1.9	1.0	1.7
Nugget	1.8	1.8	3.0
Ram I	1.6	2.0	3.0
Adelphia	1.4	2.0	1.4
Langara	1.3	1.0	2.7
Julia	1.3	1.0	1.0
Moonshadow	1.2	1.1	2.1
America	1.1	2.0	2.4
LSD (0.05)	0.23	0.24	0.24

1 - not red  
2 - red  
1 - nodding  
2 - upright  
3 - ascending

Panicle Characteristics

Variety	Panicle Characteristics		
	Number of Branches in Lowest Whorl	Length (cm)	Collar Height
'HB 129'	4.40	10.6	1.0
Touchdown	3.82	10.4	—
Baron	4.72	10.6	1.0
Midnight	4.58	10.6	1.0
Nugget	2.80	6.3	1.1
Ram I	3.73	7.7	1.0
Adelphia	4.01	10.2	1.1
Langara	3.78	9.7	1.0
Julia	4.52	11.4	1.0
Moonshadow	4.49	9.4	1.0
America	4.07	8.8	1.0
LSD (0.05)	0.52	1.07	0.05

1 - open  
2 - closed

TABLE 4

Comparison of panicle color, habit, branch attitude, branches in lowest whorl, length, and collar height for 'HB 129' and other Kentucky bluegrass varieties, year 2.

Variety	Color	Habit	Branch Attitude
Baron	2.0	1.7	1.1
Touchdown	2.0	1.0	1.2
Nugget	1.9	1.0	1.5
Midnight	1.8	1.9	1.2
Julia	1.2	1.3	1.1
Langara	1.1	1.0	1.0
Adelphia	1.1	1.1	1.3
Moonshadow	1.0	1.1	1.0
America	1.0	2.0	1.0
Ram I	1.0	1.6	1.0
LSD (0.05)	0.2993	0.2553	0.3610

1 = not red  
2 = red  
1 = nodding  
2 = upright  
3 = ascending

Variety	Number of Branches in Lowest Whorl	Panicle Length (cm)	Collar Height
Baron	4.8	10.2	1.1
Touchdown	3.9	12.5	1.0
Nugget	3.2	7.0	1.0
Midnight	4.4	9.9	1.8
Julia	4.2	11.4	1.2
Langara	4.3	12.6	1.2
Adelphia	4.2	12.3	1.6
Moonshadow	4.3	9.8	1.3
America	4.0	9.7	1.9
Ram I	4.3	8.5	1.0
LSD (0.05)	0.3899	1.578	0.3610

1 = open  
2 = closed

TABLE 5

Comparison of panicle shape of rachis for 'HB 129' and other Kentucky bluegrass varieties for years 1 & 2.

Variety	Panicle Shape	
	Year 1	Year 2
'HB 129'	1.8	1.9
Nugget	2.0	1.3
Adelphia	1.9	1.7
Ram I	1.9	1.8
Moonshadow	1.4	1.9
Baron	1.2	1.9
America	1.2	1.7
Langara	1.1	1.8
Touchdown	1.1	1.5
Midnight	1.1	1.7
Julia	1.0	2.0
LSD (0.05)	0.117	0.255

1 = straight  
2 = bend  
1 = no bend  
2 = bend



TABLE 6

Comparison of anther color of 'HB 129' and other Kentucky bluegrass varieties, year 2.			
Variety	Anther Color Categories (% of all anthers examined)		
	Purple	Yellow	Brown
'HB 129'	100	0	0
Adelphia	67	33	0
America	46	54	0
Baron	16	84	0
Julia	26	74	0
Langara	65	35	0
Midnight	98	2	0
Nugget	70	30	0
Moonshadow	9	91	0
Ram I	100	0	0
Touchdown	11	89	0

TABLE 7

Leaf sheath morphological traits of Kentucky bluegrass accessions measured 2002-2003 from the PVP nursery and greenhouse measurements at the research facility of Pickseed West, Inc. Oregon.			
Bluegrass Accessions	Keel	Hairs on Surface	Hairs on Both Sides Under Collar
'HB 129'	2	1	1 = 8% 2 = 92%
America	2	1	2
Mercury	—	—	—
	1 - absent 2 - present	1 - absent 2 - present	1 - absent 2 - present

Bluegrass Accessions	Base of Sheath Color	Surface Roughness To Touch
'HB 129'	1	1
America	1	1
Mercury	—	—
	1 - green 2 - red	1 - smooth 2 - rough

TABLE 8

Leaf blade morphological traits of Kentucky bluegrass accessions measured 2002-2003 from the PVP nursery and greenhouse measurements at the research facility of Pickseed West, Inc. Oregon.			
Bluegrass Accessions	Margin Hairs	Hairs Upper Side	Luster Lower Side
'HB 129'	2	2 = 82% 1 = 18%	1
America	2	1	1
Mercury	—	—	—
	1 - absent 2 - present	1 - absent 2 - sparse 3 - dense	1 - shiny 2 - dull

Bluegrass Accessions	Luster Upper Side	Hairs on Lower Side	Blade Width
'HB 129'	2	1	5
America	2	1	2
Mercury	—	—	—
	1 - shiny 2 - dull	1 - absent 2 - sparse 3 - dense	1 - very fine 2 - fine 3 - medium 4 - broad 5 - very broad

TABLE 9

Lemma morphological traits and seed phenol reaction of Kentucky bluegrass accessions measured 2002-2003 from the PVP nursery and greenhouse measurements at the research facility of Pickseed West, Inc. Oregon.			
Bluegrass Accessions	Lemma		
	Keel	Marginal Nerves	Intermediate Nerves
'HB 129'	1 - 55% 2 - 45%	1 - 30% 2 - 70%	1 - 15% 2 - 85%
America	—	—	—
Mercury	1 - 90% 2 - 10%	2	2
	1 - glabrous 2 - slight 3 - pubescent	1 - Yes 2 - No	1 - distinct 2 - obscure

Bluegrass Accessions	Lemma Basal Webbing	Seed Phenol Reaction
'HB 129'	1 - 90% 2 - 10%	1 - 10% 2 - 90%
America	—	—
Mercury	2	1 - 5% 2 - 95%
	1 - absent 2 - scant 3 - copious	1 - none 2 - beige 3 - brown 4 - black after 4 hrs 5 - black after 24 hrs

TABLE 10

Plant spread, hairs on ligule and leaf sheath glaucosity of Kentucky bluegrass accessions measured 2002-2003 from the PVP nursery and greenhouse measurements at the research facility of Pickseed West, Inc. Oregon.			
Bluegrass Accessions	Amount of Spread in 1 year via Rhizomes (cm)	Hairs on Ligule	Leaf Sheath Glaucosity
'HB 129'	64	1 - 53% 2 - 47%	2
America	—	—	—
Mercury	49	1 1 - absent 2 - short 3 - long	1 - 17% 2 - 83% 1 - absent 2 - present

The seed of 'HB 129' was conditioned by removing most of the extraneous materials that may have been harvested with the seed, such as small pieces of plant stems and leaves, soil particles, seed of other plants and the like. This conditioned seed of 'HB 129' averages 2.75 mm in length, and 0.97 mm in width. 'HB 129' has about 840,700 seeds per pound.

Comparisons of 'HB 129' with other Kentucky bluegrass varieties in terms of seed length, seed width and 1000 seed weight are shown in Table 11 as follows:

TABLE 11

Comparison of seed length, seed width and 1000 seed weight of 'HB 129' and other Kentucky bluegrass varieties and a hybrid for years 1 & 2.				
Variety	Seed length (mm)	Seed Width (mm)	1000 seed weight (g)	
	Year 1	Year 1	Year 1	Year 2
'HB 129'	2.75	0.97	0.657	0.423
Touchdown	3.00	0.92	0.753	0.417
Baron	2.87	0.97	0.690	0.467
Ram I	3.20	0.91	0.647	0.437
Midnight	3.03	0.81	0.637	0.403
Julia	2.82	0.82	0.630	0.507
Langara	2.77	0.80	0.573	0.463
Adelphia	2.90	0.83	0.560	0.340
Moonshadow	2.57	0.87	0.553	0.330
Nugget	3.22	0.90	0.543	0.200
America	2.63	0.83	0.470	0.383
LSD (0.05)	0.4	0.067	0.09	0.074

'HB 129' has demonstrated relatively rapid germination and emergence compared to other hybrids including Reveille in both fall and spring sowings (Table 12). 'HB 129' has shown greatly reduced seed cotton compared to Reveille. It is thought that the presence of the cotton on seed has led to poor seed recovery, and the availability of Reveille predominantly as a vegetatively reproduced product from rhizome and tiller materials.

TABLE 12

Germination rating comparison for 'HB 129' to hybrid bluegrasses and Kentucky bluegrasses planted in turfgrass plots at Cleveland, Texas.			
Germination Rating			
Treatment	Plant type	Seeded Nov. 11, 1999 15 days after seeding	Seeded Feb. 28, 2000 8 days after seeding
'HB 129'	Tx x Ky	2.7	1.7
Ascot	Ky	2.7	2.7
Abbey	Ky	1.7	2.0
Coventry	Ky	1.7	1.3
Reveille	Tx x Ky	0.0	0.0
LSD (0.05)		0.90	0.74

Tx x Ky - Texas x Kentucky bluegrass hybrid  
 Ky - Kentucky bluegrass  
 0 - no germinated seed visible  
 9 - all seed germinated and visible

TABLE 13

Comparison of 'HB 129' to other hybrid bluegrasses for cotton on seed.	
Treatment	Seed cotton rating 1 - no or little cotton, 2 - scant cotton, 3 - copious cotton
'HB 129'	1
Reveille	3

'HB 129' has performed well throughout the U.S. as exhibited by good turf quality ratings under reduced management inputs in comparison with other Kentucky bluegrass varieties and other Texas x Kentucky bluegrass hybrids. In addition, it has a light green color with good turf density which can be maintained throughout the growing season providing a rapid development of sod strength, and a medium to high seed yielding capacity.

TABLE 14

Comparison of 'HB 129' with Texas bluegrass and Kentucky bluegrasses.						
Variety	Plant Height (cm)	Longest Rhizome (cm)	Panicle Length (mm)	Flag Leaf Length (mm)	Flag Leaf Width (mm)	Flag Leaf Sheath Length (mm)
'HB 129'	41.5	49.0	25.6	25.6	4.0	74.3
Unique	17.3	40.0	34.7	14.2	1.2	48.5
Abbey	37.0	44.0	62.8	21.1	3.5	76.3
Texas bluegrass	80.0	53.3	126.9	97.2	6.4	146.9
Midnight	21.8	36.6	—	—	—	—
Touchdown	39.8	50.0	27.4	27.4	3.6	66.5
Limousine	29.8	40.8	18.9	18.9	3.2	52.5
LSD (0.05)	14.0	9.8	22.2	15.0	0.5	25.8

'HB 129' bluegrass has been shown to provide excellent fall establishment rate, winter density and good seedling vigor (Table 15). Spring establishment rate is similar to other bluegrasses. 'HB 129' bluegrass has been shown to possess a rapid development of sod strength as compared to other bluegrasses (Table 15, sod stretch). 'HB 129' bluegrass has been shown to compete well with Poa annua (Table 15). 'HB 129' bluegrass has been shown to produce a relatively high number of seedheads under mowing as compared to other bluegrasses.

TABLE 15

Differences between 'HB 129' and other Entries Detected in the 2001 and 2002 Progress Reports of the 2000 National Kentucky Bluegrass Evaluation Program for Kentucky Bluegrass.					
Genotype/Cultivar	Establishment Rating %		Seedhead Rating	Winter Density	
	UT		NJ	WA	
	12	1	1	5	1
	Year				
'HB 129'	2001	2001	2001	2002	2001
1B7-308	o				
99AN-53	o			o	
A96-427	o			o	o
A96-451	o		o	o	
A96-739	o			o	
A96-742					
A97-1330			o	o	
A97-1409	o			o	
A97-1432	o		o	o	
A97-1715	o				o
A97-857	o				
A98-1028	o			o	
A98-139	o				
A98-183	o				o
A98-365	o			o	o
A98-407	o		o	o	o
A98-881	o				
Abbey	x			o	
Allure	o	x	o	o	
Alpine		x			
Apollo			o	o	
Arcadia					
Arrow			o	o	
Ascot	o		o	o	o
AVALANCHE			x		
Award			x		

TABLE 15-continued

Differences between 'HB 129' and other Entries Detected in the 2001 and 2002 Progress Reports of the 2000 National Kentucky Bluegrass Evaluation Program for Kentucky Bluegrass.

Awesome		x		
B3-171	o	o	o	
B3-185	o	o	o	
B4-128A	o			
B5-144	o	o	o	
B5-43	o	o	o	
B5-45	o		o	
BAR Pp 0468	o	o	o	
BAR Pp 0471	o	o	o	
BAR Pp 0566	o	o	o	o
BAR Pp 0573	o	o	o	o
Bariris			o	
Baritone	o		o	
Baron	o	o	o	
Baronette		o	o	
Baronic		o	o	
Barrister		x		o
Bartitia		o	o	
Barzan	o		o	
Bedazzled		o	o	
Beyond				
Blacksburg II	o			
Blackstone		x		
Blue Knight	o		o	
Blue Ridge	o	o	o	
Bluemax	o	o		o
Bluestone	o	x		
Bodacious	o	o	o	o
Boomerang	o		o	
Bordeaux		o	o	
Boutique	o		o	
Brilliant		o	o	
Brooklawn	o	o	o	
Cabernet	o			
Champagne				
Champlain	o			
Chateau	o	o	o	
Chelsea	o		o	
Chicago II				
Coventry			o	
CVB-20631	o	o	o	o
DLF 76-9032	o	x		o
DLF 76-9034	o	o		
DLF 76-9036		o	o	
DLF 76-9037		o	o	
Eagleton		x		
Envicta		o	o	
Everest	o	x		
EverGlade	o	x		o
Excursion	o			
Fairfax	o		o	
Freedom II				
Ginney		x		
Glenmont			o	
GO-9LM9	x	x		
Goldrush		o	o	
Goldstar		x	o	
H92-203		o	o	
H92-558	o	x	o	
Hallmark				
HV 140		o	o	
HV-238	o			
Impact				
J-1513		x		
J-1838	o	x		
J-2561	o	x		
J-2885	o			
J-2890		x		
Jefferson			o	
Jewel	o	x		o
Julia	o		o	
Julius	o	o	o	
Kenblue	x	x		
Lakeshore			o	o

TABLE 15-continued

Differences between 'HB 129' and other Entries Detected in the 2001 and 2002 Progress Reports of the 2000 National Kentucky Bluegrass Evaluation Program for Kentucky Bluegrass.

Langara		x		
Liberator				o
Lily			o	
Limerick		o	o	
Limousine			o	
Mallard		o	o	o
Markham	o			
Marquis		o	o	
Mercury		o	o	
Midnight	o			
Midnight II		x	o	
Misty		o	o	
Monte Carlo	o	o	o	
Moon Shadow	o			
Moonlight				
NA-K992	o	o	o	
North Star	o	o	o	o
NuDensity		x		
NuGlade		x		
Odyssey		x		
Perfection				
Pick 417	o			
Pick 453	o			
Pp H 6366			o	
Pp H 6370			o	
Pp H 7832	o		o	
Pp H 7907	o	o	o	o
Pp H 7929	o	o	o	o
Princeton 105	o		o	
Pro Seeds - 453	o			
PST-108-79	o		o	
PST-161	o			
PST-1804				
PST-222	o	o	o	
PST-604	o		o	
PST-B3-170	o	o	o	
PST-B4-246	o		o	
PST-B5-125	o			o
PST-H5-35	o			
PST-H6-150	o	o		o
PST-York Harbor 4			o	
Quantum Leap	o			
Rambo		o		
Raven		o	o	
Rita	o		o	
Royale	o		o	o
Royce		o	o	
Rugby II			o	
Serene				
Shamrock				
Showcase	o	o	o	
SI A96-386	o		o	o
Sonoma		o		
SR 2284			o	
SRX 2114	o		o	
SRX 2394			o	
SRX 26351			o	
SRX 27921	o		o	
SRX QG245	o		o	
Total Eclipse	o			
Tsunami		x		
Unique		o		
Unknown		x	o	
Voyager II	o	o		
Washington	x	x	o	
Wellington		x		
Wildwood	x			



TABLE 15-continued

Differences between 'HB 129' and other Entries Detected in the 2001 and 2002 Progress Reports of the 2000 National Kentucky Bluegrass Evaluation Program for Kentucky Bluegrass.

Genotype/Cultivar	<i>Poa annua</i> %		Sod Stretching		Seeding Vigor
	May	Nov.	Lbs.		
	NJ	NJ	NE	NE	
	Locations				
	1	1	1	1	
	Year				
'HB 129'	2002	2002	2001	2002	2001
1B7-308	o		o		o
99AN-53	o		o		o
A96-427	o		o		o
A96-451	o				o
A96-739	o		o		o
A96-742	o	x	o		
A97-1330	o	x	o		
A97-1409	o		o		o
A97-1432	o	x	o		o
A97-1715	o		x		o
A97-857	o		o		o
A98-1028	o			o	o
A98-139	o	x	o		
A98-183	o	x	o	o	o
A98-365	o	x	o		o
A98-407	o		o		o
A98-881	o		o	o	
Abbey	o		o		x
Allure			o		o
Alpine			o		
Apollo	o	x	o		
Arcadia	o				
Arrow	o		o		
Ascot	o		o		o
AVALANCHE			o		
Award		o	o		
Awesome	o		o		
B3-171	o	x	o	o	o
B3-185	o	x			o
B4-128A	o		o		o
B5-144			o		o
B5-43			o	o	o
B5-45	o	x	o	o	o
BAR Pp 0468	o	x	o		o
BAR Pp 0471	o	x	o		o
BAR Pp 0566	o		o		o
BAR Pp 0573	o	x	o		o
Bariris	o		o		
Baritone	o		o	o	o
Baron	o	x	o		
Baronette	o		o		
Baronic	o		o		
Barrister	o	o	o		
Bartitia	o		o		
Barzan			o	o	o
Bedazzled				o	
Beyond			o		
Blacksburg II	o			o	o
Blackstone		o	x		
Blue Knight	o				
Blue Ridge	o		o		o
Bluemax	o		o		o
Bluestone	o				o
Bodacious	o	x	o		o
Boomerang	o		o		o
Bordeaux	o		o		
Boutique	o		o		o
Brilliant	o	x	o	o	
Brooklawn					o
Cabernet			o		o
Champagne	o				

TABLE 15-continued

Differences between 'HB 129' and other Entries Detected in the 2001 and 2002 Progress Reports of the 2000 National Kentucky Bluegrass Evaluation Program for Kentucky Bluegrass.

Champlain			o		o
Chateau			o	o	o
Chelsea	o		o	o	o
Chicago II	o		o		
Coventry				o	
CVB-20631	o	x	o	o	o
DLF 76-9032	o	x	o		o
DLF 76-9034	o		o	o	o
DLF 76-9036			o		
DLF 76-9037	o	x			
Eagleton			o		
Envicta			o		
Everest	o				o
EverGlade	o		o	o	o
Excursion	o		o		
Fairfax			o		
Freedom II	o		o		o
Ginney	o				
Glenmont	o	x	o		
GO-9LM9	o		o	o	x
Goldrush	o				
Goldstar	o	x	o	o	
H92-203	o	x	o		o
H92-558	o		o		o
Hallmark			o		
HV 140	o	x	o	o	
HV-238			o		o
Impact	o		o		
J-1513	o		o		
J-1838	o		o		o
J-2561	o		o	o	o
J-2885	o		o		o
J-2890	o		o		
Jefferson			o		
Jewel	o		o		
Julia	o		o		o
Julius			o	o	o
Kenblue			o		x
Lakeshore	o		o		o
Langara			o		
Liberator	o		x	o	
Lily			o	o	
Limerick	o		o		
Limousine					
Mallard	o				
Markham	o		o		o
Marquis			o		o
Mercury	o	x	o	o	
Midnight	o		x		o
Midnight II			o	o	
Misty			o		
Monte Carlo	o		o		o
Moon Shadow	o		o		o
Moonlight			o		
NA-K992	o		o	o	o
North Star					o
NuDensity	o		o		
NuGlade	o				
Odyssey	o		o		
Perfection	o		o		
Pick 417				o	o
Pick 453	o				o
Pp H 6366	o			o	
Pp H 6370					
Pp H 7832				o	o
Pp H 7907				o	o
Pp H 7929	o			o	o
Princeton 105	o			o	
Pro Seeds - 453		o			o
PST-108-79				o	o
PST-161	o			o	o
PST-1804				o	
PST-222	o			o	o
PST-604	o			o	o

TABLE 15-continued

Differences between 'HB 129' and other Entries Detected in the 2001 and 2002 Progress Reports of the 2000 National Kentucky Bluegrass Evaluation Program for Kentucky Bluegrass.

PST-B3-170	o	x	o	o	o
PST-B4-246	o		o		o
PST-B5-125	o		o		o
PST-H5-35	o		o	o	o
PST-H6-150	o		o		o
PST-York Harbor 4	o	x	o		o
Quantum Leap	o		o	o	o
Rambo	o		o		
Raven	o		o		
Rita	o		o		o
Royale	o		o	o	o
Royce	o		o		
Rugby II	o	x	o		o
Serene	o		o		
Shamrock	o		o		
Showcase	o		o		o
SI A96-386	o	x	o		o
Sonoma	o		o	o	o
SR 2284	o		o		o
SRX 2114	o		o		
SRX 2394	o		o	o	
SRX 26351	o		o		
SRX 27921	o		o		o
SRX QG245	o		o		
Total Eclipse	o		o		
Tsunami	o		o		
Unique	o		o		o
Unknown	o	x	o		
Voyager II	o		o		o
Washington	o	x	o		x
Wellington	o		o		
Wildwood	o		o	o	

o Denotes significantly lesser or poorer performance than 'HB 129' ('HB 129') based on LSD Values  
 x Denotes significantly greater or better performance than 'HB 129' ('HB 129') based on LSD Values  
 o Denotes similar or comparable performance to 'HB 129' ('HB 129') based on LSD Values

With regard to a comparative analysis conducted for purposes of determining color of 'HB 129' plants relative to Kentucky bluegrass varieties and a hybrid bluegrass, readings were taken of the vegetative color of 'HB 129' on actively growing plants with adequate nutrient and water availability. Color readings showed that 'HB 129' leaves had a light green color without blue-green. This was dissimilar to the Kentucky bluegrasses with the exception of Touchdown (Table 16).

TABLE 16

Comparison of ratings for growth habit, leaf color and leaf blade width for 'HB 129' and other Kentucky bluegrass varieties, year 2.

Variety	Growth Habit	Leaf Color Green
'HB 129'	2.0	1.0
Langara	3.0	3.1
Julia	2.1	1.6
Adelphia	2.0	2.4
Touchdown	1.9	1.0
America	1.9	2.8
Midnight	1.3	3.1
Baron	1.3	1.2
Ram I	1.2	2.0
Nugget	1.1	2.5
LSD (0.05)	0.4201	0.3899
	1 - Prostrate	1 - Light Green

TABLE 16-continued

Comparison of ratings for growth habit, leaf color and leaf blade width for 'HB 129' and other Kentucky bluegrass varieties, year 2.

	2 - Semi-Prostrate	2 - Medium Green
	3 - Erect	3 - Mod Dark Green
		4 - Very Dark Green
Variety	Leaf Color Blue Green	Blade Width
'HB 129'	1.0	4.5
Langara	1.9	3.6
Julia	1.4	3.2
Adelphia	1.8	4.0
Touchdown	1.0	4.9
America	2.3	3.1
Midnight	1.5	2.7
Baron	1.4	4.8
Ram I	1.0	3.9
Nugget	1.7	2.8
LSD (0.05)	0.5288	0.5025
	1 - Not Blue Green	1 - Very Fine
	2 - Mod Blue Green	2 - Fine
	3 - Blue-Green	3 - Medium
	4 - Strong Blue-Green	4 - Broad
		5 - Very Broad

Further comparative testing of 'HB 129' plants relative to Kentucky bluegrass, Texas bluegrass and hybrid varieties was conducted and the results of this testing are set forth in the following Table 17 and Table 18:

TABLE 17

Comparison of morphological traits of flowering tillers of plants allowed to over winter in the field and brought into a controlled greenhouse environment (60-75° F.) in late winter and allowed to grow undisturbed during the winter of 2004-2005 at The Scotts Company facility at Gervais, Oregon.

Variety	Flag Leaf Ligule Length mm	Flag Leaf Ligule Hairs 0 = none 9 = Many	Flag Leaf Thickness (mm)	Anthesis (days to flowering)
'HB 129'	1.3	5.8	0.0149	138
Reveille	2.3	0.9	0.0207	141
Geronimo	1.7	7.1	0.0164	140
Ascot	2.0	5.6	0.0166	141
Midnight	0.8	3.9	0.0145	148
Buckingham	2.4	8.1	0.0190	142
Texas Bluegrass (TX 51-90)	1.7	0.1	0.0262	140
Texas Bluegrass (TX 39-88)	2.7	0.1	0.0199	
Texas Bluegrass (TX 49-90)	2.0	0.5	0.0231	140
Kelly	2.1	6.3	0.0163	143
LSD (P = .05)	0.663	1.93	0.003324	4.854

As shown in the tabulated results (Table 17), 'HB 129' has a shorter flag leaf ligule, more hairs on the flag leaf ligule and has a thinner flag leaf than Reveille hybrid Kentucky bluegrass and Texas bluegrass.



TABLE 18

Comparison of morphological traits of plant inflorescence - spikelets, florets, glumes - from panicles harvested from a field nursery in 2005 at The Scotts Company facility at Gervais, Oregon.

Variety	Spikelet Length	Spikelet Length	Spikelet Width	Spikelet Width
	1stWhorl (mm)	3rdWhorl (mm)	1stWhorl (mm)	3rdWhorl (mm)
'HB 129'	7.6	7.1	4.5	4.0
Reveille	6.1	6.4	4.0	4.2
Geronimo	5.5	6.3	4.2	4.0
Ascot	5.6	5.8	4.4	4.3
Midnight	5.7	6.4	2.7	3.2
Buckingham	6.9	6.9	4.6	4.7
Texas Bluegrass TX 51-90	7.6	7.5	7.3	7.1
Texas Bluegrass TX 39-88	8.6	8.5	5.9	5.7
Texas Bluegrass TX 49-90	9.7	9.7	8.2	8.0
Kelly	6.3	6.1	4.4	4.3
LSD (P = .05)	1.679	1.738	1.875	1.621

Variety	Florets/Spikelet	Florets/Spikelet	Lower Glume Length	Lower Glume Length
	1stWhorl (Count)	3rdWhorl (Count)	1stWhorl (mm)	3rdWhorl (mm)
'HB 129'	8.6	7.0	3.1	3.2
Reveille	4.0	4.9	2.9	3.3
Geronimo	5.2	6.0	2.7	3.0
Ascot	3.8	4.3	2.9	2.9
Midnight	4.3	5.8	2.7	2.6
Buckingham	6.7	7.1	3.1	3.0
Texas Bluegrass TX 51-90	8.8	8.5	3.6	3.3
Texas Bluegrass TX 39-88	8.0	7.9	3.6	3.6
Texas Bluegrass TX 49-90	8.7	8.6	5.4	5.0

TABLE 18-continued

Comparison of morphological traits of plant inflorescence - spikelets, florets, glumes - from panicles harvested from a field nursery in 2005 at The Scotts Company facility at Gervais, Oregon.

Variety	Upper Glume Length	Upper Glume Length	Plant Height (cm)
	1stWhorl (mm)	3rdWhorl (mm)	
Kelly	4.3	4.9	2.8
LSD (P = .05)	1.69	1.81	0.853
'HB 129'	3.5	3.3	58.3
Reveille	3.3	3.5	51.6
Geronimo	2.9	3.1	56.9
Ascot	3.1	3.1	38.2
Midnight	3.1	3.2	29.7
Buckingham	3.4	3.4	48.2
Texas Bluegrass TX 51-90	4.2	4.2	48.1
Texas Bluegrass TX 39-88	4.0	4.2	60.4
Texas Bluegrass TX 49-90	6.0	5.4	56.2
Kelly	3.0	3.0	38.0
LSD (P = .05)	0.951	0.803	8.807

As shown in the tabulated results (Table 18), the spikelet length in both the 1<sup>st</sup> and 3<sup>rd</sup> whorl of the panicle branch 'HB 129' is less than in Texas bluegrass but greater than Reveille, Geronimo, Ascot and Midnight.

What is claimed is:

1. A new and distinct hybrid variety of Texas bluegrass× Kentucky bluegrass plant, as herein illustrated and described and characterized by rapid establishment; a light green, dense turf; a wide leaf blade; aggressive rhizome growth; a reduced level of cotton on the seed; and a medium to high seed yield potential.

\* \* \* \* \*



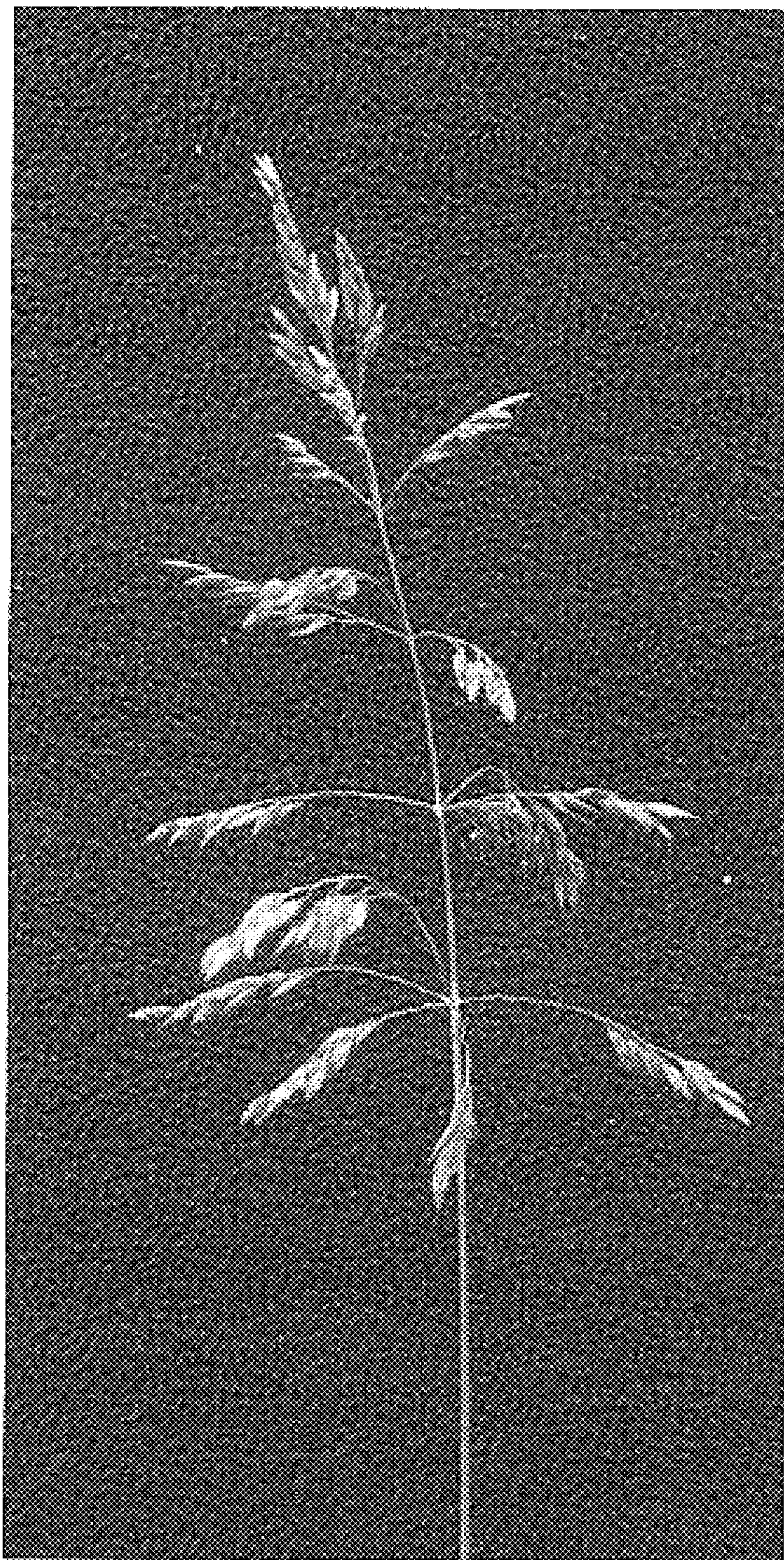


FIG. 1



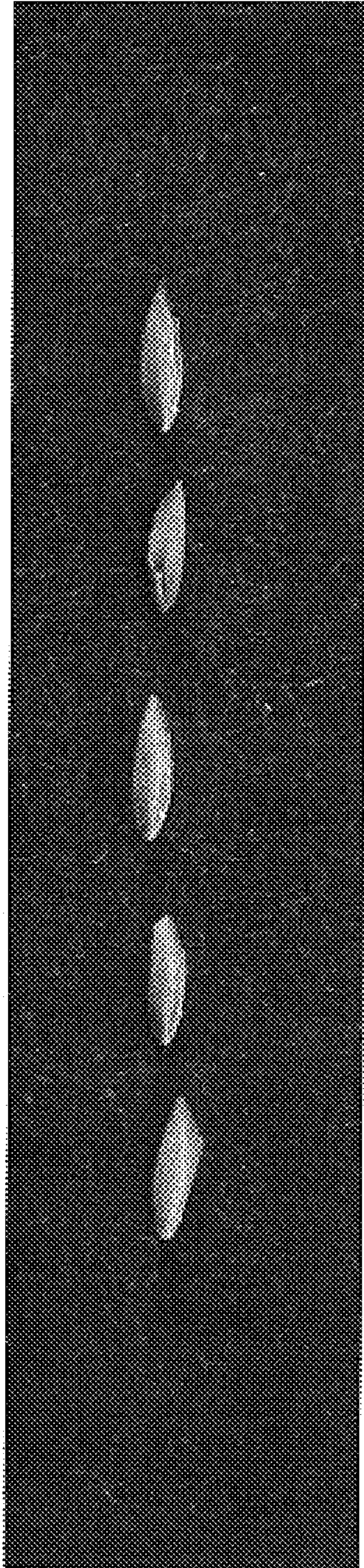


FIG. 2



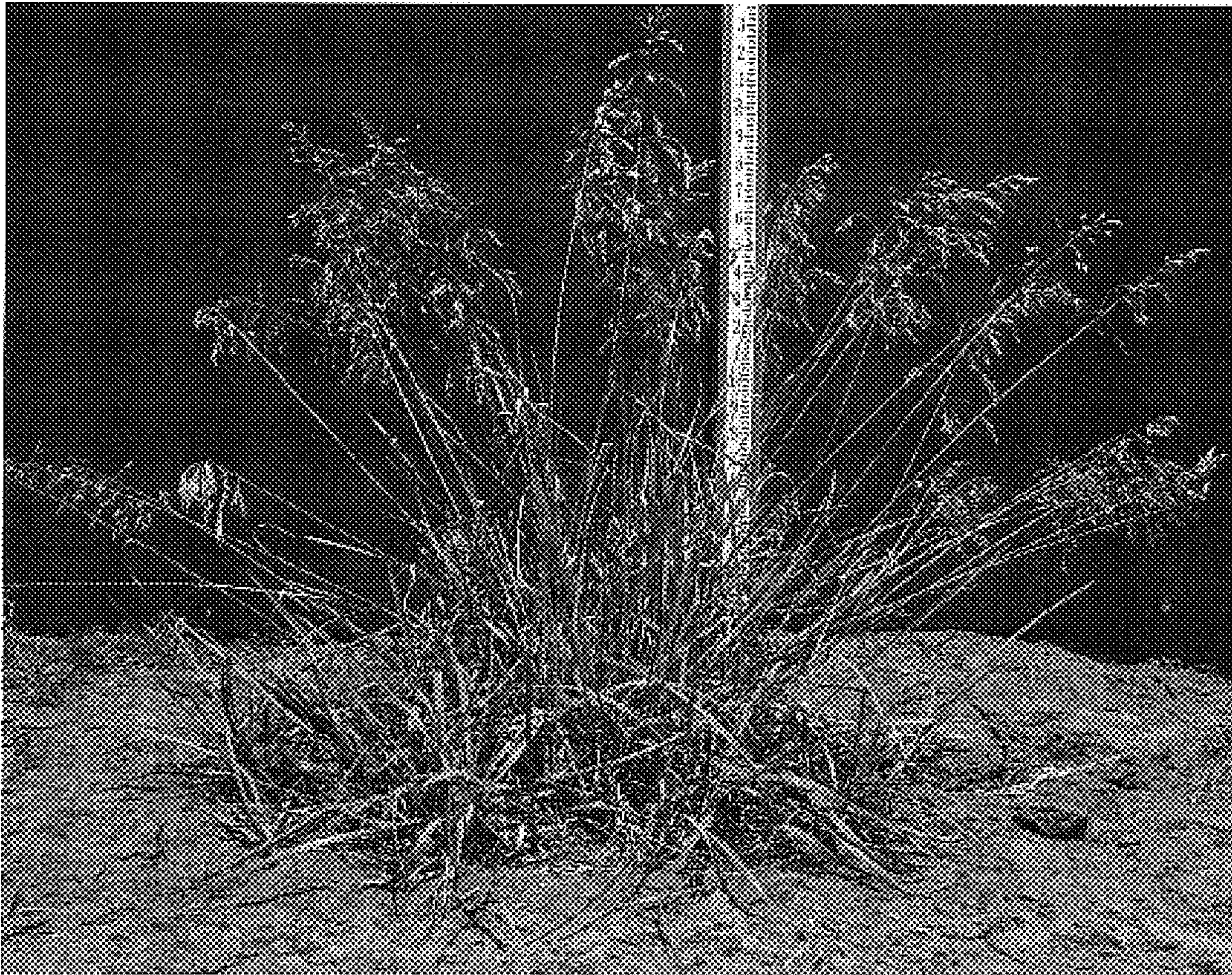


FIG. 3