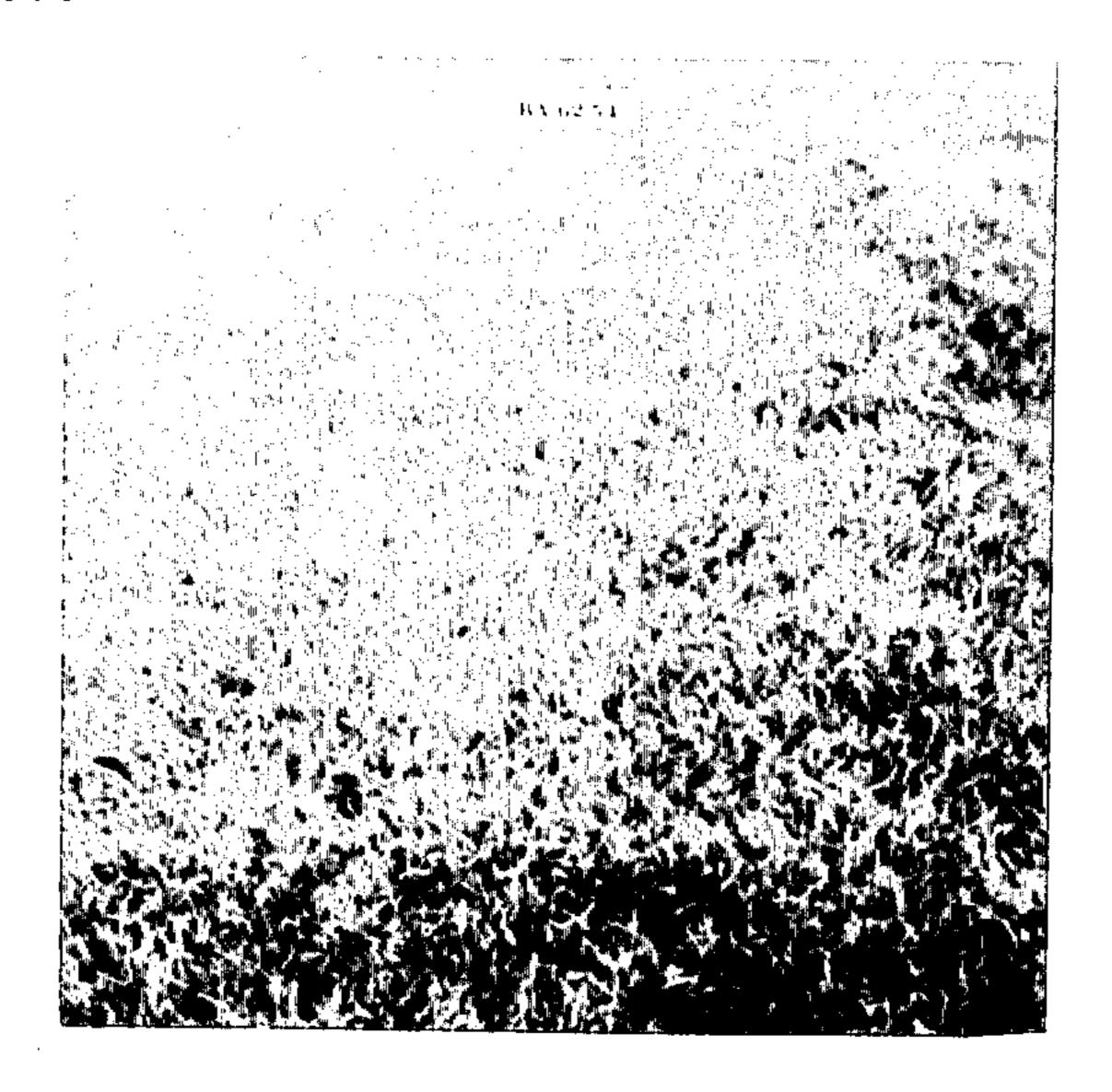
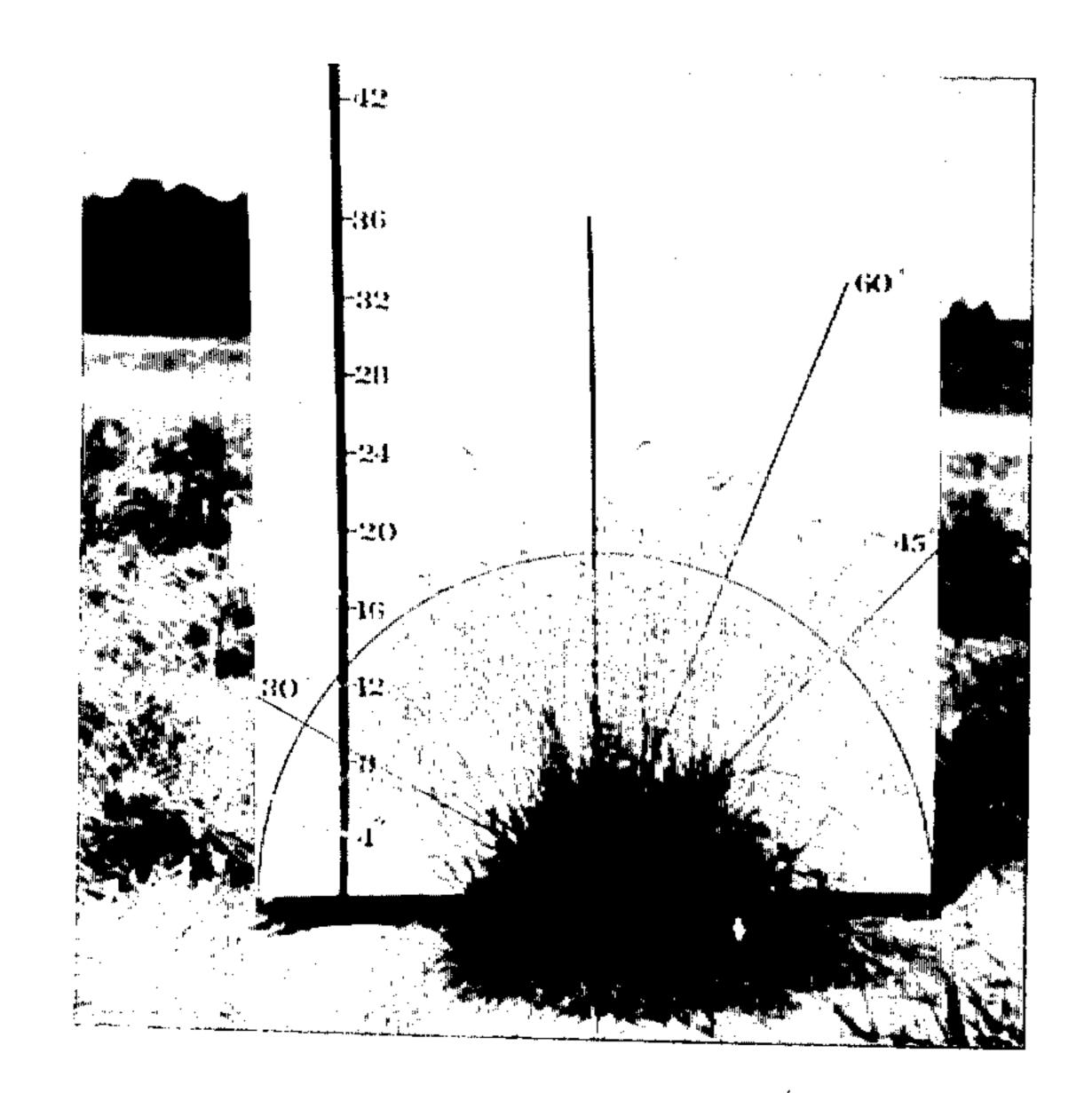
Filed July 20, 1970

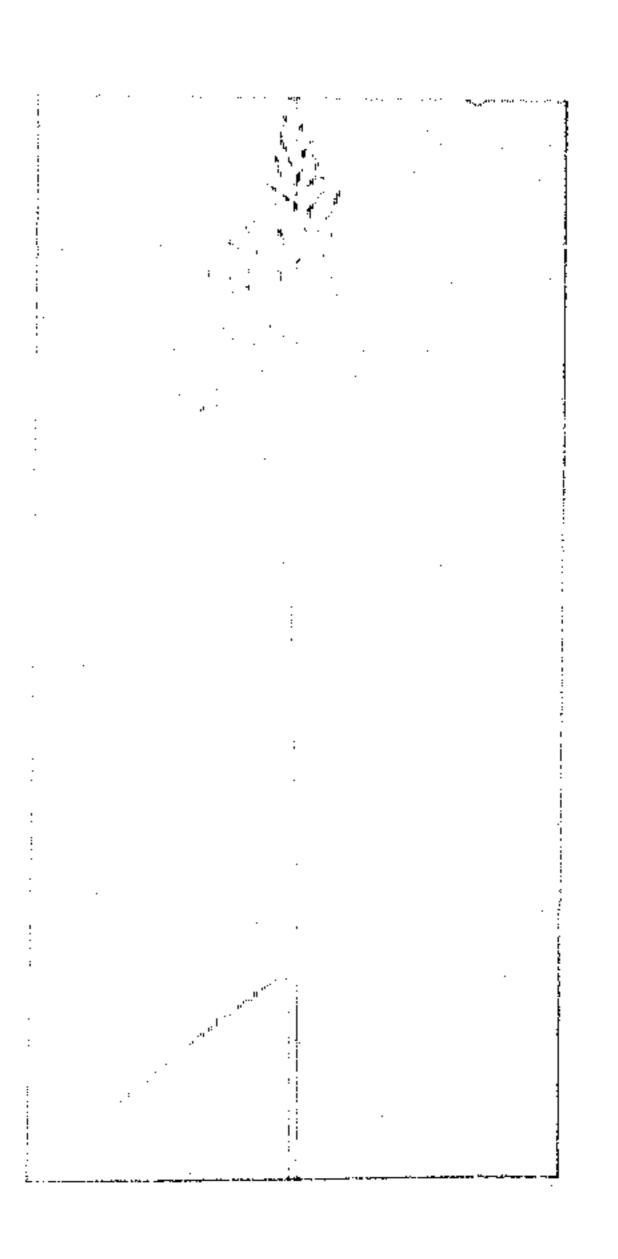
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F16. 2



F16. 3

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EUGENE W. MAYER

BY

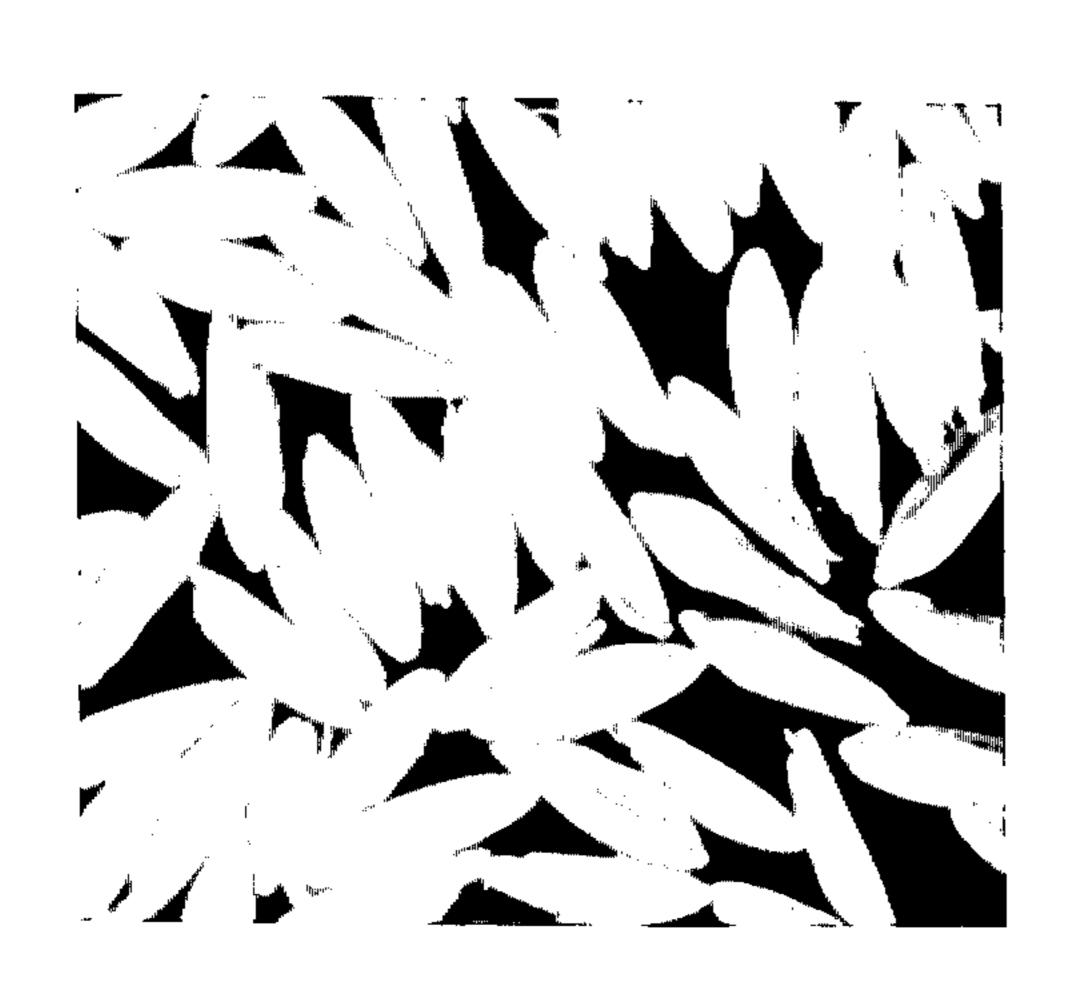
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F16. 4



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EUGENE W. MAYER

BY

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POA PRATENSIS

Torao T. Fuchigami, Long Beach, Calif., and Eugene W. Mayer, Marysville, Ohio, assignors to The O. M. Scott & Sons Company, Marysville, Ohio

Filed July 20, 1970, Ser. No. 56,757 Int. Cl. A01h 5/00

U.S. CL. Pit.—88

1 Claim

# ABSTRACT OF THE DISCLOSURE

A variety of *Poa pratensis* characterized by its excellent turf performance and disease resistance, a low growing profile, a deep blue-green color, excellent seed yield, and a favorable response to vertical growth inhibitors of the type described in U.S. Patent No. 3,462,257.

The present invention relates to a new and distinct variety of *Poa pratensis* which has been designated Ba 62-54 Kentucky bluegrass. The foundation plant of the variety was selected from cultivated plots on the west coast by the applicants.

Ba 62-54 Kentucky bluegrass reproduces asexually both apomictically and vegetatively. All asexually re-

age 62 to 74 mm. in length, are pyramidal or oblong pyramidal, and range from somewhat contracted to open (see FIG. 3). The lowermost branches are arranged in an average whorl of five, ascending or spreading, and naked below.

The spikelet length on the lowest whorl averages 8.53 to 11.27 mm. and that on the third whorl from the bottom averages 8.02 to 10.78 mm. Spikelets are crowded with 1.7 to 3.1 florets (a group of Ba 62-54 florets is shown in FIG. 5). The floret length in the lowest whorl averages 3.67 to 4.53 mm., and the floret length in the third whorl from the bottom averages 3.82 to 4.78 mm.

Lemmas are webbed at the base and pubescent on the lower two-thirds of the keel and the lower half of the marginal nerves. The intermediate nerves are glabrous. The first glume is 3.47 to 4.93 mm. in length, and the second is 3.8 to 5.0 mm. in length.

The foregoing description and measurements are based on plants grown at Marysville, Ohio. Since environmental conditions such as climate and soil influence morphological characteristics to some degree, the morphological characteristics described above may vary.

The morphological characteristics of Ba 62-54 and other commercially available bluegrass varieties are compared in Table I.

TABLE I

Morphological comparison of Ba 82-54 and other bluegrass varieties

-	·		· · · · · · · · · · · · · · · · · · ·	·				- varieties		•	•
	Mature plant	Panicle	Panicle	Spikelet let	ngth in mm.		Floret len	gth in mm.			Less blade width in
Variety	height in centimeters	whori	length in mm.	Lowest	Third whorl	- Florets Per Spikeiets	Lowest	Third whori	والمراجعة والتطفيق بمراجعها	gen in mm.	solid seeded • plots in
Ba 62-6 Newpor Merion	rt 70	5 5 5	62-74 71-97 72-86	8.53 to 11.27	8.02 to 10.78. 7.87 to 10.33. 8.11 to 9.89.	1.7-3.1	3.67 to 4.53_	3.82 to 4.78. 3.90 to 4.81	W.TA L!! T 'NO	.A .TM A KA	2.85 to 3.65. 2.02 to 2.72.
- 75-		·			- 6.11 (0.9.09.	. 1.9-3.8		3.11 to 4.09_	3.2 to 4.4	3.87 to 4.73	2.02 to 2.72.

"Measured one inch from the tip of the boat-shaped blade.

produced Ba 62-54 offspring appear to show complete conformity with the mother plant.

Ba 62-54 has a number of highly desirable characteristics including a low growing profile, a robust nature, good resistance to turf diseases, a dark, deep, blue-green 4.5 color, and the capability of producing a dense turf. It also propagates rapidly and is an excellent seed producer. Because of this combination of desirable characteristics, Ba 62-54 Kentucky bluegrass is capable of producing turf of excellent quality.

From the foregoing it will be apparent that the primary object of the present invention resides in the provision of a novel and distinct variety of *Poa pratensis* having the unique combination of characteristics described above. These and other characteristics will be described in detail in the ensuing detailed description and discussion of the invention and, where applicable, are illustrated in the accompanying drawing, in which:

FIG. 1 is a photograph of one-year old Ba 62-54 turf; FIG. 2 is a photograph of a mature Ba 62-54 plant 60 grown is a field nursery at Marysville. Ohio:

FIG. 3 is a photograph of a mature Ba 62-54 panicle; FIG. 4 is a photograph of Ba 62-54 roots and rhizomes; FIG. 5 is a photograph of a mature spikelet of Ba 62-54 grown at Marysville. Ohio:

FIG. 6 is a photograph of Ba 62-54 seed produced at Salem, Oreg.; and

FIGS. 7-9 are representations of thin film chromatographs of extracts obtained from Ba 62-54 leaf clippings.

Ba 62-54 Kentucky bluegrass (see FIGS. 1 and 2) is 70 characterized by erect tufted culms 50-75 centimeters tall with an average of 55 centimeters when undisturbed by clipping. Blades are soft flat or folded and are mostly 2.5 to 4 mm. wide with an average width in mowed turf in the range of 2.85 mm. to about 3.65 mm. Panicles aver-

As shown by the foregoing table, the morphological characteristics of Ba 62-54 acord a basis for distinguishing it from other varieties of *Poa pratensis* such as those listed in the table.

Ba 62-54 Kentucky bluegrass can also be distinguished by a chromatographic analysis of its phenolic constituents. The results of such an analysis are depicted in FIGS. 7-9. In this analysis a sample of Ba 62-54 leaf clippings was extracted with 80% methanol. The extract was concentrated in vacuo and then extracted with petroleum ether to remove chlorophylls, carotenoids, and other fat soluble material. After further concentration in vacuo this extract was saturated with sodium chloride and extracted with ethyl acetate giving a polyphenol fraction designated Ba 62-54 EtOAc.

This fraction was chromatographed by the two-dimensional thin layer technique. More particularly, the fraction was spotted on 20 x 20 cm. plates coated with Avicel microcrystalline cellulose, which were developed first in butanol-acetic acid-water (4:1:5) and after thorough drying then developed in 20% acetic acid and again dried. The dried two-dimensional chromatograms were sprayed with a 1% diphenylboric acid ethanolamine complex in methanol, 1% aluminum chloride in methanol, and Benedict's reagent.

When the sprayed chromatograms were viewed under ultraviolet light (350 millimicron) the patterns shown in FIGS. 7-9 were observed. In these figures the following code is employed:

a=aqua
ab=absorbent spot
b=blue
bw=blue-white
by=bluish-yeilow
gy=greenish-yeilow

o=orange
lo=light orange
p=purple
y=yellow
ly=light yellow
yo=yellowish-orange

40

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60

Mowed plots of Ba 62-54 Kentucky bluegrass have been evaluated at Marysville, Ohio; Long Beach, Calif.; and Washington, D.C. These evaluations confirmed that Ba 62-54 has many significant desirable characteristics which enable it to provide good performance as described be-5 low.

Turf density measurements were made throughout the year and at different heights of cut to provide information on the growth habits of the grass. The data collected showed that two, three, and four year old Ba 62-54 turf 10 maintained excellent density throughout the growing season at all heights of cut, even under unfavorable growing conditions.

More particularly, the data in Table II below shows that turf density of Ba 62-54 Kentucky bluegrass in Marysville, Ohio, at two low heights of cut was excellent and superior to that of Park and Common Kentucky from spring through autumn. Density ratings of Ba 62-54 Kentucky bluegrass at Washington, D.C. were equal to or higher than those of other standard varieties during every 20 month in which data was collected (see Table III). The difference is especially evident during the stress months for bluegrasses (July and August) when climatical conditions are normally very hot and dry. Plots of Ba 62-54 at Long Beach, Calif. also had good density (see Table 25 IV). Excellent density ratings at all of the above locations is indicative of the broad genetic environmental adaptability possessed by Ba 62-54 Kentucky bluegrass.

TABLE II

[Turf density comparisons of Ba 62-54 and other bluegrass varieties at 1 inch and 1/2 inch heights of cut at Marysville, Obio]

	Rating, percent							
· · · · · · · · · · · · · · · · · · ·	M	17	Ju	İy	Octo	ober		
Variety	1"	· 1/2"	1"	1/2"	1"	35"		
Bs 62-84	95	63	100	93	100	100		
Park.	. 90	<b>60</b> 3	90	90	95	90		
Common Kantucky	80	63	80	70	90	80		
Merion	96	90	100	95	100	100		

Ranking scale: Number indicates percent coverage of the plot by desirable turi.

TABLE III

[Turi dansity comparisons of Ba 62-54 and other bluegrass varieties at a 2 inch height of cut at Washington, D.C.]

	Rating, percent					
Variety	April	June	August	October		
Ps 62-34	65	90	75	100		
	80	<b>SO</b>	50	45		
Common Kentucky	85	45	45	70		
Merion.	87	85	30	35		

Ranking scale: Number indicates percent coverage of the plot by desirable turi.

TABLE IV

[Turi density comparisons of Ba 62-54 and other bluegrass varieties 55 at a 1% inch height of cut at Long Beach, California]

	Rating, percent					
Variety	Jan.	Mer.	Мау	June	Sapt.	Nov.
Ba 62-64	95	100	90	85	100	100
New port	9 <b>5</b>	9 <b>5</b>	80	63	80	90
Alenon.	દઉ	<b>35</b>	60	75	80	90
Park	9 <b>5</b>	100	90	90	80	90

Ranking scale: Number indicates parcent coverage of the plot by desirable turi.

The speed and ability of a variety to spread and fill in a plot after sprigging constitute a good measure of the turf vigor and persistence possessed by the variety. One month after sprigging plant material at replicated randomized plots in Washington, D.C. Ba 62-54 was giving 70 a more rapid rate of spread. Two months after sprigging Ba 62-54 covered 80% of the plot compared to Merion, which only covered a little over half of the plot area (see Table V). This demonstrates the robust nature and the spreading ability of Ba 62-54.

TABLE Y

[Rate of spread and turi coverage comparisons between Ba 62-54 and Merion bluegrasses at Washington, D.C.]

Variety	Rate of spread one mouth after sprig- ging	Turi coverage two months after sprig- ging, percent
Ba 62-54	3 1	80 53

Ranking scale: 1=Blow rate of spread; 3= fast rate of spread.

Note.—Number indicates percent of coverage of plot by desirable turi

Disease resistance is a highly significant and desirable characteristic that is necessary to the maintenance of good quality turf. Ba 62-54 Kentucky bluegrass has provided good resistance to many major types of turf diseases in varied geographical locations. This again demonstrates the broad genetic adaptability of this grass.

With continued reference to the disease resistance of Ba 62-54, the spring season of each year is quite favorable to the development and infestation of bluegrass by Helminthosporium spp. (leaf spot). Therefore, the incidence of leaf spot is normally at its peak at this time of the year; and evaluation of variety resistance at this time is accordingly highly significant. A comparison of data for the month of May in three consecutive years taken from the same plots and for the same varieties showed that the severity of leaf spot increased each year in all plots 1 but not to the same extent. Ba 62-54 was comparable to Merion 2 in resistance each consecutive year and was significantly more resistant to the disease than Park and Common Kentucky. (See Table VI.) Leaf spot damage was minimal to the Ba 62-54 and Merion plots. However, other common turf varieties were severely damaged and thinned. Data from Washington, D.C. turf plots also indicated that Ba 62-54 has resistance comparable to that of Merion. (See Table VII.)

### TABLE VI

[Comparison of the susceptibility of Ba 62-54 and other bluegrass varieties to the causal organism Helminthosporium spp. in May for three consecutive years at Marysville. Ohio.]

4 55		Percent				
40	Variety	First year	Second year	Third year		
	Bs 62-54	15	23	30		
	Park Common Kentucky Merion	50 50 25	40 40 25	80 83 35		
		24	<b>111</b>	ಎ		

Ranking scale: Number indicates percent of disease incidence in plot.
An increase in the incidence of leaf spot can be expected as turi becomes older.

2 Merion is recognized as having good resistance to leaf spot.

## TABLE VII

[Comparison of the susceptibility of Ba 62-54 and other bluegrass varieties to the causal organism Helminthosporium spp. in May at Washington, D.C.]

Variety:	Ranking scale, percent
Ba 62-54	
Newport	 55
Common Ker	tucky 80
Merion	

Ranking scale: Number indicates percent of disease incidence in plot.

On the west coast Puccinia graminis (rust) incidence is normally high on bluegrass turf as ecological conditions in this area are most ideal for this particular disease. Turf can be severely damaged or its aesthetic value decreased—when rust incidence is at epidemic proportions. Ba 62-54 bluegrass is significantly more resistant to rust than Merion as shown by the data in Table VIII.

#### TABLE VIII

[Comparison of the susceptibility of Ba 62-54 and other bluegrass varieties to the causal organism Puccinia graminis at Long Beach, Calif-.]

	Percent			
Variety	September, first year	August, second year		
Ba 62-54	25	10		
Newport	10	20		
Merion	. 50	40		

Ranking scale: Number indicates percent of disease incidence in plot

Ba 62-54 is also characterized by vigorous rhizome formation (see FIG. 4). The variety is comparable in this respect to Windsor bluegrass.

Another novel characteristic of Ba. 62-54-Kentucky blue-grass is its favorable response to vertical growth inhibitors such as 6-azauracil. 3 As shown by the data in Table IX, the application of 6-azauracil at the rate of two pounds per acre to Ba 62-54 turf in good growing condi- 20 tion produced a 40% reduction in vertical growth and a 70% reduction of fresh weight material 28 days after treatment without severe injury to the turf. This genetic characteristic may be useful in reducing mowing frequencies at peak growing times of the year, and may also 25 assist in variety identification.

TABLE IX

[Response of Ba 62-54 and Merion bluegrass to 6-azauracil at 2 lbs./acre 28 days after treatment]

Variety	Inhibition, percent	Injury, percent	Turf quality	Fresh weight reduction percent
Ba 62-54.	40	0	3	70
Merion	5		3	44

Ranking scale:

Inhibition = Number indicates percent inhibition to desirable turf. Injury = Number indicates percent injury to desirable turf. Turf quality:

1-3 excellent. 4-7 fair.

8-10 poor. Fresh weight reduction = Number indicates percent fresh weight reduction.

Ba 62-54 Kentucky bluegrass is a very prolific and heavy seed producer both at Marysville, Ohio and Salem, 45 Oreg.

Yields of 38 grams of seed per plant were obtained at Salem compared to 11 grams of seed per plant for Wind-

sor Kentucky bluegrass.

The initial heading date of Ba 62-54 Kentucky blue- 50 grass was 14 days later than Windsor Kentucky bluegrass. The Ba 62-54 reached the point where 50% of the plants were headed seven days later than Windsor, which indicates that Ba 62-54 will head out more rapidly once initial heading occurs. The first anthesis date was approxi- 55 mately the same as for Windsor; however, harvest for Ba 62-54 was 18 days earlier than Windsor because of faster maturity (see Table X).

TABLE X

-[Comparison dates of heading, anthesis, harvest and seed yields of Ba 62-54 and Windsor bluegrasses at Salem, Oregon]

	Heading date		Anthesis date		Unwood	Cood establish	
Variety	First	50%	First	50%	Harvest date	Seed yield/ plant, gins.	
Ba 62-54 Windsor	5-3 4-19	5-6 4-29	5-24 5-22	5-27 5-27	7-5 7-23	38 11	

Ba 62-54 Kentucky bluegrass has a deep, blue-green color. It is very pleasing to the eye and has excellent 70 aesthetic value.

Ba 62-54 had a darker green color on the west coast throughout the year than other standard turfgrass varieties (see Table XI). This was especially evident during the winter months with Ba 62-54 maintaining a greener color. This is a very desirable characteristic especially on the west coast, which has mild winters, making it possible to have a green lawn the entire year.

TABLE XI

[Turf color comparisons of Ba 62-54 and other bluegrass varieties at Long Beach, California

	Variety	Jan.	Mar.	May	June	Aug.	Sept.	Dec.
	Ba 62-54	8.7	9	10	10	10	10	9
,	Newport	·	8.5	. 9	10	9.3	9	· 9
	Merion	5	7	9	9	8.5	. 9	6
	Park	6.5	6.5	7	7	6	6	5

Ranking scale: 10=darkest green; 1=brown color or straw color.

In the northern and eastern areas where winters are extremely cold, Ba 62-54 does not become as straw colored as other standard varieties. Therefore, even in these

areas, it has a more appealing winter color.

The various turf and turfgrass characteristics described above are all taken into account in determining what is known as a turf quality rating. Great significance is attached to this rating because it is indicative of the general appearance, uniformity, and aesthetic value of a turf. 30 Also, as all of the performance characteristics of the grass are taken into consideration, a good turf rating is an indication that the grass is free of disease, has good color, density, and uniformity, and an acceptable texture, and that it is pleasing to walk on.

The turf quality of two, three, and four year old Ba 62-54 turf has been found to be excellent. In fact, the quality of four year old Ba 62-54 turf was significantly better than that of two year old turf of other varieties in plots in Marysville, Ohio (see Table XII). This is significant because older turf is usually lower in quality than

younger or juvenile turf.

On the west coast, Ba 62-54 also had better turf quality ratings throughout the year than the standard varieties as shown by Table XIII. Excellent turf quality ratings throughout the year and at different geographical locations again reflect the wide genetic base of Ba 62-54.

TABLE XII

[Turf quality comparisons of Ba 62-54 and other bluegrass varieties in August for three consecutive years at Marysville. Ohiol

Variety		3 yr. old turf		
Ba 62-54	4	3	3.5	
Park	• 2	1.5	2.5	
Common Kentucky	2	1.5	$ar{2}$	
Merion.	3	3	3. 5	

Ranking scale: 4=excellent turf quality; 1=poor turf quality.

## TABLE XIII

60 [Turf quality comparisons of Ba 62-54 and other bluegrass varieties at Long Beach, Californial

		TAULIE T				
Variety		July September		November	December	
	Ba 62-54.	4	4	3	. 3	
	Park	1	ī	2	Ĭ	
_	Newport.	ũ	• 3	3	3	
3	Morion	2	9	. 9	1.5	

Ranking scale: 4=excellent turf quality; 1=poor turf quality.

The size and weight of Ba 62-54 seed is also unique. Most bluegrass varieties have from one million, three hundred thousand to two million seeds per pound. However, Ba 62-54 seed (see FIG. 6) is much heavier than the seed of standard varieties so there are less than a million seeds per pound. (See Table XIV.)

<sup>\*</sup>The use of 6-azauracil and related compounds as vertical plant growth inhibitors is disclosed in detail in United States Patent No. 3,462,257 to which the reader may refer, if desired.

#### TABLE XIV

[Comparison of Ba 62-54 and other bluegrass varieties as to the number of seeds produced per pound in the Pacific Northwest]

Variety	Number of seeds per pound	Moisture percentage of each seed	
Ba 62-54	\$98,012 to 931,608	6. 3	
Newport	1,154,522 to 1,216,266	6.9	
Merion.	1.813,730 to 1,869,118	6.9	
Park	1,179,492 to 1,220,352	6.7	
Delta	1,216,720 to 1,277,556	7.3	
Windsor	1,370,626 to 1,418,750	7.0	

Note.—Number of seeds per pound were determined by counting one gram lots using an electric seed counter.

Ba 62-54 seed also has a rapid rate of germination and excellent seedling vigor. For example, under good germinating conditions (81° F. for 8 hours with light alternated with 16 hours darkness at 60° F.), Ba 62-54 germinated significantly faster within the first 14 days than most standard varieties (see Table XV). Because of this fast 25 germination rate, critical establishment time is significantly reduced, providing the seedlings with a better chance of survival.

#### TABLE XV

[Seed germination percentage rates of Ba 62-54 and other bluegrass a varieties for 7, 14, 21 and 28 days]

	Percent						
Variety	7 days	14 days	21 days	28 days			
Ba 62-54.	41	92. 6	98. 6	99. 6			
Newport	3	77	89	9 <b>3</b>			
Merion	3.3	71	91. 6	92. 6			
	22.3	80. 6	92. <b>3</b>	9 <b>3</b>			

Ranking scale: Number indicates average percentage of seeds that germinated. Seeds were germinated in a germination chamber at 81° F. with 8 hours of light alternated with 16 hours of darkness at 60° F.

The invention may be embodied in other specific forms without departing from the spirit or essential characteristics thereof. The present invention is therefore to be considered in all respects as illustrative and not restrictive, the scope of the invention being indicated by the appended claims rather than by the foregoing description, and all changes which come within the meaning and range of equivalency of the claims are therefore intended to be embraced therein.

What is claimed and desired to be secured by Letters Patent is:

1. A variety of *Poa pratensis* substantially as shown and described herein.

No references cited.

ROBERT E. BAGWILL, Primary Examiner

# UNITED STATES PATENT OFFICE CERTIFICATE OF CORRECTION

Patent No. Plant Patent No. 3,156 Dated May 9, 1972

Inventor(s) Torao T. Fuchigami and Eugene W. Mayer

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

Column 2, line 42, change "acord" to --afford--.

Column 3, (in table IV) Merion Jan. change "80" to --90--.

Column 4, line 22, "Helmint hosporium spp." should be underlined or in italics.

Signed and seased this 12th day of December 1972.

(SEAL) Attest:

EDWARD M.FLETCHER, JR. Attesting Officer

ROBERT GOTTSCHALK Commissioner of Patents