



THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME;

Zwaan & de Wiljes'

Whereas, THERE HAS BEEN PRESENTED TO THE
Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF *seventeen* YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, IMPORTING IT, OR EXPORTING IT, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT. UNITED STATES SEED OF THIS VARIETY (1) SHALL BE SOLD BY VARIETY NAME ONLY AS CERTIFIED SEED AND (2) SHALL CONFORM TO THE NUMBER OF GENERATIONS OF THE OWNER OF THE RIGHTS. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

KENTUCKY BLUEGRASS

'Welcome'

In Testimony Whereof, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington this 28th day of December in the year of our Lord one thousand nine hundred and seventy-eight

Attest:

Commissioner
Plant Variety Protection Office
Grain Division
Agricultural Marketing Service

Secretary of Agriculture

FORM GR-470-18
(1-15-73)

UNITED STATES DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
GRAIN DIVISION
HYATTSVILLE, MARYLAND 20782

EXHIBIT C
(Blue grass)

OBJECTIVE DESCRIPTION OF VARIETY
BLUEGRASS (POA SPP.)

NAME OF APPLICANT(S) Zwaan & de Wiljes'Zaadteelt en Zaadhandel B.V. ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP Code) Stationsstraat 124, P.O.Box 2, SCHEEMDA Netherlands	FOR OFFICIAL USE ONLY <hr/> PVPO NUMBER 7700063 <hr/> VARIETY NAME OR TEMPORARY DESIGNATION Welcome
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Place the appropriate number that describes the varietal character of this variety in the boxes below.
Place a zero in first box (e.g. or) when number is either 99 or less or 9 or less.

1. KIND:

1 = POA COMPRESSA 2 = P. PRATENSIS 3 = P. TRIVIALIS 4 = OTHER (Specify) _____

2. REGION OF BEST ADAPTATION:

1 = NORTHEAST 2 = TRANSITIONAL ZONE 3 = NORTH CENTRAL 4 = PACIFIC N.W. 5 = OTHER (Specify) _____

3. MATURITY (At First Anthesis):

1 = EARLY (Delta) 2 = MEDIUM EARLY (Fylking) 3 = MEDIUM (Newport) 4 = LATE (Merion)

<input type="text" value="1"/> NUMBER OF DAYS EARLIER THAN	<input type="text" value="4"/>		1 = NUGGET 2 = FYLKING
<input type="text" value="5"/> NUMBER OF DAYS LATER THAN	<input type="text" value="2"/>	}	3 = DELTA 4 = MERION
			5 = NEWPORT 6 = BARON

4. PLANT HEIGHT (Longest Shoot from Soil Surface to Top of Head):

CM. HEIGHT

CM. SHORTER THAN

CM. TALLER THAN

	<input type="text" value="4"/>		1 = NUGGET 2 = FYLKING
	<input type="text" value="6"/>	}	3 = DELTA 4 = MERION
			5 = NEWPORT 6 = BARON

5. HABIT:

1 = PROSTRATE (Fylking) 2 = SEMI-PROSTRATE (Merion)
3 = ERECT (Delta)

6. VEGETATIVE REPRODUCTION (1 = Absent; 2 = Present):

RHIZOMES STOLONS

7. LEAF BLADE:

Color: 1 = LIGHT GREEN (Rough Bluegrass) 2 = BLUE GREEN (Canada Bluegrass) 3 = MODERATELY DARK GREEN (Merion)
4 = DARK GREEN (Adelphi) 5 = OTHER (Specify) _____

Upper Surface: 1 = SHINY 2 = DULL Lower Surface: 1 = SHINY 2 = DULL

MM. WIDTH MM. LENGTH

8. LEAF SHEATH (Base):

Seedling Color: 1 = GREEN 2 = RED MM. LENGTH Keel: 1 = NOT KEELED 2 = KEELED

Surface: 1 = GLABROUS 2 = PUBESCENT 1 = SMOOTH 2 = ROUGH 1 = NON-GLAUCOUS 2 = GLAUCOUS

9. LEAFINESS (At First Anthesis):

Number of leaves per tiller or shoot: 1 = FEW (1 - 3) 2 = INTERMEDIATE (4 - 6) 3 = MANY (More than 6)

10. PANICLE:

MM. LENGTH

MM. LONGER THAN

MM. SHORTER THAN

	<input type="text" value="1"/>		1 = NUGGET 2 = FYLKING
	<input type="text" value="1"/>	}	3 = DELTA 4 = MERION
			5 = NEWPORT 6 = BARON

FORM GR-470-18
(1-15-73)UNITED STATES DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
GRAIN DIVISION
HYATTSVILLE, MARYLAND 20782EXHIBIT C
(Bluegrass)OBJECTIVE DESCRIPTION OF VARIETY
BLUEGRASS (POA SPP.)

NAME OF APPLICANT(S) Zwaan & de Wiljes'Zaadteelt en Zaadhandel B.V. ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP Code) Stationsstraat 124, P.O.Box 2, SCHEEMDA Netherlands	FOR OFFICIAL USE ONLY PVPO NUMBER 7700063 VARIETY NAME OR TEMPORARY DESIGNATION Welcome
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Place the appropriate number that describes the varietal character of this variety in the boxes below.
Place a zero in first box (e.g. or) when number is either 99 or less or 9 or less.

1. KIND:

 1 = POA COMPRESSA 2 = P. PRATENSIS 3 = P. TRIVIALIS 4 = OTHER (Specify)

2. REGION OF BEST ADAPTATION:

 1 = NORTHEAST 2 = TRANSITIONAL ZONE 3 = NORTH CENTRAL 4 = PACIFIC N.W. 5 = OTHER (Specify)

3. MATURITY (At First Anthesis):

 1 = EARLY (Delta) 2 = MEDIUM EARLY (Fylking) 3 = MEDIUM (Newport) 4 = LATE (Merion)

<input type="text" value="1"/> NUMBER OF DAYS EARLIER THAN	<input type="text" value="4"/>	} 1 = NUGGET 2 = FYLKING 3 = DELTA 4 = MERION 5 = NEWPORT 6 = BARON
<input type="text" value="5"/> NUMBER OF DAYS LATER THAN	<input type="text" value="2"/>	

4. PLANT HEIGHT (Longest Shoot from Soil Surface to Top of Head):

<input type="text" value="5"/> <input type="text" value="8"/> CM. HEIGHT	} 1 = NUGGET 2 = FYLKING 3 = DELTA 4 = MERION 5 = NEWPORT 6 = BARON	
<input type="text" value="1"/> <input type="text" value="5"/> CM. SHORTER THAN		<input type="text" value="4"/>
<input type="text" value="8"/> CM. TALLER THAN		<input type="text" value="6"/>

5. HABIT:

 1 = PROSTRATE (Fylking) 2 = SEMI-PROSTRATE (Marion)
3 = ERECT (Delta)

6. VEGETATIVE REPRODUCTION (1 = Absent; 2 = Present):

 RHIZOMES STOLONS

7. LEAF BLADE:

 Color: 1 = LIGHT GREEN (Rough Bluegrass) 2 = BLUE GREEN (Canada Bluegrass) 3 = MODERATELY DARK GREEN (Merion)
4 = DARK GREEN (Adelphi) 5 = OTHER (Specify) Upper Surface: 1 = SHINY 2 = DULL Lower Surface: 1 = SHINY 2 = DULL MM. WIDTH MM. LENGTH

8. LEAF SHEATH (Base):

 Seedling Color: 1 = GREEN 2 = RED MM. LENGTH Keel: 1 = NOT KEELED 2 = KEELED

Surface:

 1 = GLABROUS 2 = PUBESCENT 1 = SMOOTH 2 = ROUGH 1 = NON-GLAUCOUS 2 = GLAUCOUS

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 Number of leaves per tiller or shoot: 1 = FEW (1 - 3) 2 = INTERMEDIATE (4 - 6) 3 = MANY (More than 6)

10. PANICLE:

 MM. LENGTH

<input type="text" value="1"/> <input type="text" value="1"/> <input type="text" value="1"/> MM. LONGER THAN	} 1 = NUGGET 2 = FYLKING 3 = DELTA 4 = MERION 5 = NEWPORT 6 = BARON
<input type="text" value="1"/> <input type="text" value="1"/> <input type="text" value="1"/> MM. SHORTER THAN	

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

INSTRUCTIONS: See Reverse.

1a. TEMPORARY DESIGNATION OF VARIETY	1b. VARIETY NAME WELCOME	FOR OFFICIAL USE ONLY	
		PV NUMBER 7700063	
2. KIND NAME Kentucky bluegrass	3. GENUS AND SPECIES NAME Poa pratensis L.	FILING DATE 4-15-77	TIME 2:00 P.M.
4. FAMILY NAME (BOTANICAL) Gramineae	5. DATE OF DETERMINATION August 1974	FEE RECEIVED	DATE
		\$ 250.00	4-15-77
		\$ 250.00	4-15-77
		\$ 250.00	9-7-78
6. NAME OF APPLICANT(S) Zwaan & de Wiljes' Zaadteelt en Zaadhandel B.V.	7. ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP Code) Stationsstraat 124 SCHEEMDA/the Netherlands P.O. Box 2	8. TELEPHONE AREA CODE AND NUMBER 05979-1233	
9. IF THE NAMED APPLICANT IS NOT A PERSON, FORM OF ORGANIZATION: (Corporation, partnership, association, etc.) Private company	10. IF INCORPORATED, GIVE STATE AND DATE OF INCORPORATION the Netherlands	11. DATE OF INCORPORATION 1914	

12. Name and mailing address of applicant representative(s), if any, to serve in this application and receive all papers:

no representative

13. CHECK BOX BELOW FOR EACH ATTACHMENT SUBMITTED:

- 13A. Exhibit A, Origin and Breeding History of the Variety (See Section 52 of the Plant Variety Protection Act.)
- 13B. Exhibit B, Novelty Statement.
- 13C. Exhibit C, Objective Description of the Variety (Request form from Plant Variety Protection Office.)
- 13D. Exhibit D, Additional Description of the Variety.

14A. Does the applicant(s) specify that seed of this variety be sold by variety name only as a class of certified seed? (See Section 83(a). (If "Yes," answer 14B and 14C below.) YES NO

14B. Does the applicant(s) specify that this variety be limited as to number of generations? YES NO

14C. If "Yes," to 14B, how many generations of production beyond breeder seed? 5/4/78

- FOUNDATION REGISTERED CERTIFIED

15. Does the applicant(s) agree to the publication of his/her (their) name(s) and address in the Official Journal? YES NO

16. The applicant(s) declare(s) that a viable sample of basic seed of this variety will be deposited upon request before issuance of a certificate and will be replenished periodically in accordance with such regulations as may be applicable.

The undersigned applicant(s) is (are) the owner(s) of this sexually reproduced novel plant variety, and believe(s) that the variety is distinct, uniform, and stable as required in Section 41, and is entitled to protection under the provisions of Section 42 of the Plant Variety Act.

Applicant(s) is (are) informed that false representation herein can jeopardize protection and result in penalties.

March 23rd 1977
(DATE)

ZWAAN & DE WILJES'
(SIGNATURE OF APPLICANT)
ZAADTEELT EN ZAADHANDEL B.V.

(DATE)

E. Post
(SIGNATURE OF APPLICANT) Director

MAR 28 1977

INSTRUCTIONS

GENERAL: Send an original copy of the application, exhibits and \$250.00 fee to U.S. Dept. of Agriculture, Agricultural Marketing Service, Grain Division, National Agricultural Library, Beltsville, Maryland 20705. (See Section 180.175 of the regulations and rules of practice.) Retain one copy for your files. All items on the face of the form are self-explanatory unless noted below.

ITEM

- 5 Give the date the applicant determined that he had a new variety based on (1) the definition in Section 41(a) of the Act and (2) the date a decision was made to increase the seed.
- 13a Give (1), the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method. (2), the details of subsequent stages of selection and multiplication. (3), the type and frequency of variants during reproduction and multiplication and state how these variants may be identified and (4), evidence of stability.
- 13b Give a summary statement of the variety's novelty. Clearly state how this novel variety may be distinguished from all other varieties in the same crop. If the new variety most closely resembles one or a group of related varieties; (1) identify these varieties and state all differences objectively; (2) Attach statistical data for characters expressed numerically and demonstrate that these differences are significant; and (3) submit, if helpful, seed and plant specimens or photographs of seed and plant comparisons clearly indicating novelty.
- 13c Fill in the Exhibit C, Objective Description form for all characteristics, for which you have adequate data.
- 13d Describe any additional characteristics that are not described, or whose description cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the description of characteristics that are difficult to describe; such as; plant habit, plant color, disease resistance, etc.
- 14A If "YES" is specified (seed of this variety be sold by variety name only as a class of certified seed) the applicant may NOT reverse his affirmative decision after the variety has either been sold and so labeled or published or the certificate has been issued. However, if the applicant specifies "NO", he may change his choice. (See Section 180.15 of the Regulations and Rules of Practice.)

Application No. 7700063 "Welcome"New Exhibit A (dated 20/6/78)

Welcome is based on one parent plant (No 68-23-24) from a wild European collection from 1968.

The original collected plants are all cloned to three, and planted on the trialground in the spring of 1968. Visual observations of the plants have been done in autumn 1968 and summer 1969. Observed were the growing type, diseases and seed yield capacity. On the better plants the seed has been harvested in 1969.

In the spring of 1970 we have established a turftrial with three replications at Scheemda.

This turf has been observed in 1970, 1971, 1972 and 1973. In the spring 1973 we decided to sow the seed 1969 in the greenhouse. The plants are plant^{ed} in the summer 1973 as single-spaced plants on an outdoor field. In 1974 we harvested seed on this field, which we used for the official trials and Plant Variety Protection Applications in Holland and Germany.

On this field of 1974 we got again an impression of the seed-yielding capacity.

The seed harvested was also used for further propagation.

In the field of the single-spaced plants we observed the number of type - off plants in the autumn of 1973. We observed less than 1% type-offs. So we concluded that Welcome would be a 100% (or > 99%) apomictic variety.

The few "type-offs" were all different. Some were lighter-coloured and other had smaller leaves etc. So we cannot give a description of these plants.

Kentucky bluegrass, Application No. 7700063, "Welcome".

Novelty statement, dated October 16th, 1978
(to replace statement of August 2nd, 1978)

"Welcome" belongs to the group of the broad-leaved, late heading varieties.

"Welcome" resembles most closely "Baron", "Golf", "Entopper", "Monopoly", "Mosa", "Pion" and "Sydsport".

"Welcome" differs from "Baron", "Entopper", "Golf", "Mosa", "Pion" and Sydsport because of these varieties showing, hairs on the ligule, whereas "Welcome" has a hairless ligule.

"Monopoly" shows a much longer culm than "Welcome".

Application No. 7700063 "Welcome", Kentucky Bluegrass

New Exhibit D (dated 17/6/ 1978)

- hairs on the margins of the leafsheath
- hairs at both sides on the leafsheath below the leafblade (Delta, Fylking, Merion, Newport have not)
- no hairs on the ligule
- hairs on the margin of the lower part of the leafblade
- few hairs on the upper-surface of the leafblade
- leafsheath red-coloured (in young-stage)
- the panicle is red-coloured
- no curve in the axis of the panicle
- the collar of the rachis opposite lower side branches is open
- lower branches of panicle are spread horizontally.

ZWAAN & DE WILJES Limited, SCHEEMDA / Holland

WHOLESALE SEED GROWERS-, MERCHANTS and PLANTBREEDERS

Telephone: 05979-233
Cable address: „Selecta” - Scheemda
Telex 53146 (Smith nl)
Bankers: AMRO BANK, Groningen
acc.nr. 44.60.70.114

SCHEEMDA, August 30th 1978
P.O. Box 2

United States Department of Agriculture
Agricultural Marketing Service
Livestock, Poultry, Grain & Seed Division
National Agricultural Library Building
BELTSVILLE Maryland 20705
U.S.A.

for the attention of Mr. J.J. Higgins
Subject: Kentucky bluegrass Application No. 7700063
"Welcome"

Dear Sir,

Thank you for your letter of the
14th August 1978.

The height-difference of "Welcome"
and "Monopoly" is very clearly to see.

The culm-lengths are based on
measurements of 20 single-spaced plants.
There is some variation from year to year.

The culm-length is:

50 - 60 cm for "Welcome";
80 - 90 cm for "Monopoly"

Each year there was a significant
difference of 1%.

Sincerely

ZWAAN & DE WILJES'
ZAADTEELT EN ZAADHANDEL B.V.

Ir. C.J.M. van Cruchten

Plantbreeder 7