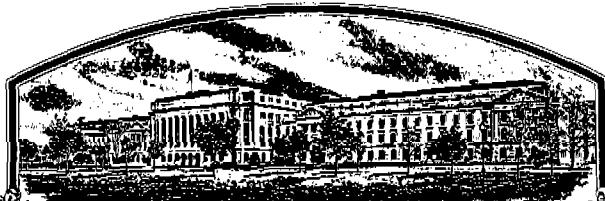


No.

8200085



THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Sluis & Groot Research

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 eighteen 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 VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT (Title 35, 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

CAULIFLOWER

'White Rock'



Attest:

Kenneth H. Evans
Commissioner
Plant Variety Protection Office
Grain Division
Agricultural Marketing Service

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 27th day of January in the year of our Lord one thousand nine hundred and eighty-four.

John R. Block
Secretary of Agriculture

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

INSTRUCTIONS: See Reverse.

| | | | |
|--|---|--|---|
| la. TEMPORARY DESIGNATION OF VARIETY SG 112 | Ib. VARIETY NAME WHITE ROCK | FOR OFFICIAL USE ONLY PV NUMBER 8200085 | |
| 2. KIND NAME Cauliflower | 3. GENUS AND SPECIES NAME Brassica oleracea L. convar botrytis (L) Alef. var. botr | FILING DATE <u>3/22/82</u> | TIME XX 12:05 P.M. |
| 4. FAMILY NAME (BOTANICAL) Cruciferae | 5. DATE OF DETERMINATION <u>1978</u> | FEE RECEIVED \$ <u>500.00</u> \$ <u>250.00</u> | DATE <u>3/22/82</u> <u>12/20/83</u> |
| 6. NAME OF APPLICANT(S) Koninklijke Zaadteelt en Zaadhondel Sluis & Groot B.V. SLUIS & GROOT RESEARCH AS 9/26/83 | 7. ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP Code) P.O. Box 13 1600 AA Enkhuizen Netherlands | 8. TELEPHONE AREA CODE AND NUMBER 02280 - 3838 | |
| 9. IF THE NAMED APPLICANT IS NOT A PERSON, FORM OF ORGANIZATION: (Corporation, partnership, association, etc.) Corporation | 10. IF INCORPORATED, GIVE STATE AND DATE OF INCORPORATION Netherlands | 11. DATE OF INCORPORATION 1867 | |
| 12. NAME AND MAILING ADDRESS OF APPLICANT REPRESENTATIVE(S), IF ANY, TO SERVE IN THIS APPLICATION AND RECEIVE | | | |

Stan Rollin, Seed Consultant, 6802 Orem Drive, Laurel MD **20810**

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 SEE 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 IS LIMITED AS TO NUMBER OF GENERATIONS? YES NO

14c. IF "YES," TO 14b, HOW MANY GENERATIONS OF PRODUCTION BEYOND BREEDER SEED?

FOUNDATION REGISTERED CERTIFIED

15a. DID THE APPLICANT(S) FILE FOR PROTECTION OF THIS VARIETY IN OTHER COUNTRIES? YES NO (If "Yes," give name of countries and dates.)

Netherlands 1979 October Belgium 1981 March

Western Germany 1980 November United Kingdom '81 March

15b. HAVE RIGHTS BEEN GRANTED THIS VARIETY IN OTHER COUNTRIES? YES NO (If "Yes," give name of countries and dates.)

16. DOES THE APPLICANT(S) AGREE TO THE PUBLICATION OF HIS/HER (THEIR) NAME(S) AND ADDRESS IN THE OFFICIAL JOURNAL? YES NO

17. The applicant(s) declare(s) that a viable sample of basic seed of this variety will be furnished with the application and will be replenished upon request 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.

29th December 1981

(DATE)

Ing. G.J. Urselmann Sluis & Groot B.V.

(SIGNATURE OF APPLICANT)

1

(DATE)

(SIGNATURE OF APPLICANT)

INSTRUCTIONS

GENERAL: Send an original copy of the application and exhibits, at least 2,500 viable seeds, and \$500 fee (\$250 filing fee and \$250 examination fee) to U.S. Dept. of Agriculture, Agricultural Marketing Service, Livestock, Poultry, Grain and Seed Division, Plant Variety Protection Office, National Agricultural Library Building, 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 uniformity and 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, his decision published, or the certificate has been issued. However, if the applicant specified "NO," he may change his choice. (See section 180.16 of the Regulations and Rules of Practice.)
- 15a See section 42 of the Plant Variety Protection Act and section 180.7 of the Regulations and Rules of Practice.
- AMERICAN
PLANT VARIETY PROTECTION
DIVISION
U.S. DEPARTMENT OF AGRICULTURE
MAY 1982
RECEIVED

EXHIBIT AOrigin and Breeding History of the Variety - Cauliflower SG 112, 'White Rock'

The original material is based on a crossing between ~~winter-~~ cauliflower, 'Flora Blanca' and 'Alpha' received from Waginengen in 1968.

Since 1968, the breeding department has worked with group ~~and~~ line selection within ~~the late~~ summer - autumn group.

An acceptable standard of homogeneity has been obtained. No variants beyond the percentages shown in the attached table have been found.

In 1978 the variety was determined to be uniform and stable.

Attachment

ATTACHMENT - EXHIBIT A - CAULIFLOWER SG 112. 'White Rock'

| | | | |
|------|---|-----------------------------|-----------------------------|
| 1975 | <u>October</u> | <u>800 plants total/yr.</u> | <u>4 fields average/yr.</u> |
| | small plants, light green colored off types | 0.125% | |
| | late, petioled plants | 0.5% | |
| 1976 | small plants, light green colored off types | 0.5% | |
| | late, petioled plants | 0.25% | |
| 1977 | small- plants, light green colored off types | 0.125% | |
| | late, petioled plants | 0.125% | |

EXHIBIT B - NOVELTY STATEMENT - CAULIFLOWER SG 112, 'WHITE ROCK'

'White Rock' resembles most closely the variety 'Oze'. It differs from the variety 'Oze' as follows:

1. In the young stage the 'White Rock' plants are 5 cm. shorter.
2. In the cutting stage the 'White Rock' plants are as big as 'Oze'.
3. The starting cutting stage for 'White Rock' is 3-5 days later.
4. 'White Rock' has a shorter cutting period of about one week.
5. 'White Rock' has darker leaves (RHS 137-A) than 'Oze' (RHS-137-D)



Koninklijke Zaadteelt
en Zaadhondel
Sluis en Groot B.V.
Enkhuizen (Holland)

Exhibit B

Novelty Statement

Cauliflower White Rock

8200085

Annex to point.1 of Exhibit B

In the young stage the White Rock plants are 5 cm shorter than Oze.

1980

sowing : 2nd June 1980. 3 repetitions. 48 plants/object.

Readings : 1st September 1980.

OZE

| | |
|----------------|-------------|
| 41 cm | 9 x |
| 40 cm | 27 x |
| 39 cm | 12 x |
| | |
| 41 cm | 10 x |
| 40 cm | 29 x |
| - 39 cm | 8 x |
| 38 cm | 1 x |

WHITE ROCK

| | |
|--------------|-----------------------------------|
| 36 cm | 6 x |
| 35 cm | 38 x <u>1st repetition</u> |
| 34 cm | 4 x |
| | |
| 36 cm | 8 x |
| 35 cm | 36 x <u>2nd repetition</u> |
| 34 cm | 4 x |
| | |
| 36 cm | 19 x |
| 35 cm | 20 x <u>3rd repetition</u> |
| 34 cm | 9 x |

1981

Sowing : 3rd June 1981. 2 repetitions. 48 plants/object.

Readings : 2nd September 1981.

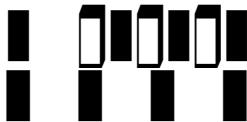
OZE

| | |
|--------------|-------------|
| 39 cm | 12 x |
| 38 cm | 23 x |
| 37 cm | 11 x |

WHITE ROCK

| | |
|--------------|-----------------------------------|
| 34 cm | 19 x |
| 33 cm | 28 x <u>1st repetition</u> |
| | |
| 34 cm | 6 x |
| 33 cm | 41 x <u>2nd repetition</u> |





Koninklijke Zaadteelt
en Zaadhondel
Sluis en Groot B.V.
Enkhuizen (Holland)

Annex to point 1) Exhibit B
Cauliflower White Rock, 8200085

page 2

1982
— — —

Sowing : 4th June 1982. 2 repetitions. 48 plants/object.

Readings : 3rd September 1982.

OZE

37 cm 4 x
36 cm 20 x
35 cm 18 x
34 cm 3 x

38 cm 4 x
37 cm 10 x
36 cm 33 x
35 cm 1 x

WHITE ROCK
32 cm 11 x
31 cm 19 x 1st repetition
30 cm 18 x

32 cm 4 x
31 cm 38 x 2nd repetition
30 cm 6 x

—————





Koninklijke Zaadteelt
en Zaadhondel
Sluis en Groot B.V.
Enkhuizen (Holland)

Exhibit B

Novelty Statement

Cauliflower White Rock

8200085

Annex to point 3 of Exhibit B

The starting cutting stage of White Rock is 3 - 5 days later than Oze.

1980

sowing date : I = 2nd June 1980

II = 9th June 1980

100 plants/number 2 repetitions

| | <u>Number of growing days</u> | | <u>50% plants harvest</u> |
|------------|-------------------------------|-------------|---------------------------|
| Oze | I 112 days | II 122 days | average : 117 days |
| White Rock | I 115 days | II 125 days | average : 120 days |

1981

.- Sowing date : I = 10th June **1981**

II = 17th June **1981**

100 plants/number 2 repetitions

| | <u>Number of growing days</u> | | <u>50% plants harvest</u> |
|------------|-------------------------------|--------------------|-----------------------------|
| Oze | I 118 days | II 130 days | average : 124 days |
| White Rock | I 123 days | II 132 days | average : 127,5 days |

1982

Sowing date : I = 4th June **1982**

II = 11th June **1 9 8 2**

100 plants/number 2 repetitions

| | <u>Number of growing days</u> | | <u>50% plants harvest</u> |
|------------|-------------------------------|-------------|---------------------------|
| Oze | I 125 days | II 145 days | average : 135 days |
| White Rock | I 135 days | II 145 days | average : 140 days |



Koninklijke Zaadteelt
en Zaadhondel
Sluis en Groot B.V.
Enkhuizen (Holland)

Exhibit B Novelty Statement Cauliflower White Rock **8200085**

Annex I to point 4 of Exhibit B

White Rock has a shorter cutting period than Oze of about one week

1980

Sowing date : I = 2nd June 1980

II = 9th June 1980

100 plants/number 2 repetitions

Length of cutting period

| | | | |
|------------|-----------|------------|---------------------|
| Oze | I 35 days | II 44 days | average : 39,5 days |
| White Rock | I 24 days | II 40 days | average : 32 days |

1981

Sowing date : I = 10th June 1981

II = 17th June 1981

100 plants/number 2 repetitions

Length of cutting period

| | | | |
|------------|-----------|------------|---------------------|
| Oze | I 33 days | II 42 days | average : 37,5 days |
| White Rock | I 22 days | II 38 days | average : 30 days |

1982

Sowing date : I = 4th June 1982

II = 11th June 1982

100 plants/number 2 repetitions

Length of cutting period

| | | | |
|------------|-----------|------------|-------------------|
| Oze | I 34 days | II 40 days | average : 37 days |
| White Rock | I 23 days | II 37 days | average : 30 days |

FORM GR-470-30
(7-1-74)

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
GRAIN DIVISION
HYATTSVILLE, MARYLAND 20782
OBJECTIVE DESCRIPTION OF VARIETY
CAULIFLOWER
(*Brassica oleracea* var. *botrytis*)

NAME OF APPLICANT(S)

Koninklijke Zaadteelt en Zaadhondel Sluis & Groot B.V.
SLUIS & GROOT RESEARCH R/S 7/26/83

VARIETY NAME OR TEMPORARY DESIGNATION

SG 112 - 'White Rock' 8/13/82

ADDRESS (Street and No., or F.F.D. No., City, State, and ZIP Code)

P.O. Box 13, 1600 AA Enkhuizen, Netherlands

FOR OFFICIAL USE ONLY

PVPO NUMBER

8200085

Place the appropriate number that describes the **varietal character** of this variety in the boxes below.
Place a zero in first box (e.g. 0 8 9 or 0 9) when number is either 99 or less or 9 or less.

1. REGION OF ADAPTATION: (Where best adapted in the U.S.A.)

| | | | | | |
|---------------------------------------|------------------|------------------|---------------|---------------|---------------|
| <input checked="" type="checkbox"/> 6 | 1 = NORTHWEST | 2 = NORTHCENTRAL | 3 = NORTHEAST | 4 = SOUTHEAST | 5 = SOUTHWEST |
| | 6 = MOST REGIONS | | | | |

2. SEASON: (Main crop)

| | | |
|---------------------------------------|--------------------------------|--------------------------------|
| <input checked="" type="checkbox"/> 4 | 1 = LATE FALL - EARLY WINTER | 2 = LATE WINTER - EARLY SPRING |
| | 3 = LATE SPRING - EARLY SUMMER | 4 = LATE SUMMER - EARLY FALL |

3. Maturity: (Days to 50% harvest)

| | | | | | | |
|----------------------------|----------------------------|----------------------------|------------------|----------------------------|----------------------------|----------------------------|
| <input type="checkbox"/> 1 | <input type="checkbox"/> 1 | <input type="checkbox"/> 8 | FROM TRANSPLANTS | <input type="checkbox"/> 1 | <input type="checkbox"/> 4 | NO. DAYS HARVESTING PERIOD |
|----------------------------|----------------------------|----------------------------|------------------|----------------------------|----------------------------|----------------------------|

| | | | |
|----------------------------|----------------------------|----------------------------|---------------------|
| <input type="checkbox"/> 1 | <input type="checkbox"/> 4 | <input type="checkbox"/> 8 | FROM DIRECT SEEDING |
|----------------------------|----------------------------|----------------------------|---------------------|

4. PLANT HEIGHT: (At harvest)

| | | | | |
|----------------------------|----------------------------|-----------------------------------|---------------------------|----------------------|
| <input type="checkbox"/> 2 | <input type="checkbox"/> 7 | CM. FROM SOIL LINE TO TOP OF CURD | 1 = EARLY ERFURT | 2 = SUPER SNOWBALL A |
| <input type="checkbox"/> 0 | <input type="checkbox"/> 4 | CM. TALLER THAN | 3 = SNOWBALL Y | |
| <input type="checkbox"/> 1 | <input type="checkbox"/> 0 | CM. SHORTER THAN | 4 = VEITCH AUTUMN GIANT | |
| | | | 5 = OTHER (Specify) _____ | |

5. LEAVES:

| | | | | | |
|----------------------------|----------------------------|--|----------------------------|----------------------------|---|
| <input type="checkbox"/> 3 | <input type="checkbox"/> 1 | TOTAL NUMBER | <input type="checkbox"/> 4 | <input type="checkbox"/> 8 | CM. AVERAGE LENGTH AT MID-POINT OF PLANT (Including Petiole) |
| | | | <input type="checkbox"/> 2 | <input type="checkbox"/> 5 | CM. AVERAGE WIDTH AT MID-POINT OF PLANT |
| <input type="checkbox"/> c | <input type="checkbox"/> 1 | 1 = STRAIGHT MARGINS 2 = WAVY MARGINS | <input type="checkbox"/> 1 | | 1 = THIN VEINS 2 = THICK VEINS |
| <input type="checkbox"/> 1 | | 1 = MOSTLY SESSILE 2 = MOSTLY PETIOLATE | | | |
| | | 3 = EQUIALLY SESSILE AND PETIOLATE | | | |
| <input type="checkbox"/> 3 | COLOR: | 1 = LIGHT GREEN | <input type="checkbox"/> 3 | | 1 = UPRIGHT, EXPOSE CURD |
| | | 2 = MEDIUM GREEN (Snowball Mo. 10) | | | 2 = INCURVED, PARTIALLY COVER CURD |
| | | 3 = DARK GREEN (Lacerf Group) | | | 3 = COMPETEY COVER CURD (Self blanching) |

6. CURD:

| | | | | | |
|----------------------------|----------------------------|--------------|----------------------------|----------------------------|-----------|
| <input type="checkbox"/> 1 | <input type="checkbox"/> 6 | CM. DIAMETER | <input type="checkbox"/> 1 | <input type="checkbox"/> 0 | CM. DEPTH |
|----------------------------|----------------------------|--------------|----------------------------|----------------------------|-----------|

6. CURD:

a 1 1 = TIGHT 2 = LOOSE



1 = FLAT

2 = SEMI-DOME

3 DOME

a 2 1 = SMOOTH 2 = KNOBBY

COLOR:

a 2 3 1 = BRIGHT PURPLE-GREEN WHITE

2 = CREAMY, DULL WHITE



1 = NO LEAVES IN CURD

2 = LEAVES IN CURD

7. DISEASE RESISTANCE: (0 = Not Tested; 1 = Susceptible, 2 = Resistant. Specify race if known)

 SLACK SPOT

a 0 CLUBROOT

 PHYTOPHTHORA ROOT ROT WHITE BLISTER 0 BLACK ROT 0 BOTTOM ROT 0 CERCOSPORELLA LEAF SPOT 0 DOWNY MILDEW 0 POWOERY MILDEW 0 VERTICILLUM WILT 0 SLACK LEG 0 CAULIFLOWER MOSAIC 0 RING SPOT 0 TURNIP YELLOW MOSAIC
 0 WIRE STEM

YELLOWS

 OTHER (Specify) _____

8. OTHER RESISTANCE: (0 = Not Tested, 1 = Susceptible, 2 = Resistant)

 2 "BUTTONING" 0 "BLINDNESS" 2 "RICEYNESSE" 0 "WHIPTAIL" 0 INSECT (Specify) _____

9. INDICATE A VARIETY THAT MOST CLOSELY RESEMBLES THAT SUBMITTED:

| CHARACTER | VARIETY | CHARACTER | VARIETY |
|-------------|---------|-------------|--------------|
| MATURITY | Oze | PLANT COLOR | White Summer |
| ADAPTATION | Oze | CURD SIZE | Oze |
| PLANT HABIT | Oze | CURD SHAPE | Oze |
| PLANT SIZE | Oze | CURD COLOR | Oze |

REFERENCE:

Nieuwhof, M. 1969. Cole Crope - World Crop Series, Leonard Hill.

COMMENTS:

'TABLE OF CHARACTERISTICS - TABLEAU DES CARACTERES - MERKMASTABELLE

| Characteristics Caractères Merkmale | English | français | deutsch | Example Varieties Exemples Beispielssorten | Note |
|--|---|--|--|--|--------------------------|
| *) 1. Seedling: anthocyanin coloration Plantule : pigmentation anthocyanique Keimpflanze: Antho-cyan färbung | absent present | absente présente | fehlend vorhanden | Lucullus, Clou Erfurter Zwerg, Alpha | 1 0 ⁹ |
| 2. Seedling: color of cotyledon Plantule : couleur du cotyledon Keimpflanze: Farbe der Keimblätter | yellow green light green dark green blue green violet green | vert-j'aune vert clair vert foncé vert-bleu vert violacé | gelbgrün hellgrün dunkelgrün blaugrün violetgrün | | 1 2 3 4 5 |
| 3. Plant: size (at time of harvest) Plante : taille (à la récolte) Pflanze: Grösse (zum Zeitpunkt der Ernte) | small medium large | petite moyenne grande | klein mittel gross | Aristo Gloria Delira | 3 5 0 ⁷ |
| 4. Outer stem: length Pied : longueur Aussenstrunk: Länge | short- medium long | court moyen long | kurz mittel lang | | 3 5 7 |
| (*) 5. Leaf: attitude (+) Feuille : port Blatt: Stellung | erect semi-erect horizontal | dressé oblique horizontal | aufrecht halbaufrecht waagerecht | Delira Sesam, Erfurter Zwerg Opaal, Aristo | 0 2 3 |
| 6. Leaf: size Feuille : taille Blatt: Grösse | small medium large | petite moyenne grande | klein mittel gross | | 3 5 7 |
| (*) 7. Leaf: shape Feuille : forme Blatt: Form | narrow elliptic elliptic broad elliptic | elliptique étroite elliptique elliptique large | schmal elliptisch elliptisch breit elliptisch | | 1 2 3 |
| 8. Leaf: margin of base Feuille : bord de la base Blatt: Basisrand | entire not entire | entier lobe | ganzründig gelappt | Igloo | 1 0 |

(*) Characteristics which should always be included in the description of the variety.

Caractères à toujours inclure dans la description de la variété.
Merkmale, die in jeder Sortenbeschreibung enthalten sein sollten.

(+) See explanatory descriptions or illustrations in Annex 2.

Renvoie aux descriptions ou dessins illustrant le caractère à l'annexe 2.

Siehe Erläuterungen oder Zeichnungen in Anlage 2.

| Characteristics Caractères Merkmale | English | français | deutsch | Example varieties Exemples Beispielssorten | Note |
|--|--|--|--|--|---------------------------------|
| 9. Leaf: wax Feuille : pruine Blatt: Wachsschicht | absent or very weak weak medium strong | nulle ou très faible faible moyenne forte | fehlend oder sehr gering gering mittel stark | | 1 0 5 7 |
| 10. Leaf: color (with wax if present) Feuille : couleur (avec la pruine éventuellement) Blatt: Farbe (mit Wachs, wenn vorhanden) | light green medium green dark green grey-green blue-green <u>violet-green</u> | vert clair vert moyen vert foncé vert-gris vert-bleu vert-violett | hellgrün mittelgrün dunkelgrün graugrün blaugrün <u>violettgrün</u> | Deense Export Alpha Lecerf Nevada --- | 1 2 0 3 4 5 6 |
| 11. Leaf: torsion of the tip Feuille: torsion du sommet Blatt: Drehung der Spitze | absent or very weak weak medium strong | nulle ou très faible faible moyenne forte | fehlend oder sehr gering gering mittel stark | | 1 0 3 5 7 |
| 12. Leaf: profile of upperside of blade Feuille : profil de la face supérieure du limbe Blatt: Fläche der Spreite | concave plane convex | concave plan convexe | konkav eben konvex | | 0 2 3 -- |
| 13. Leaf: blistering Feuille : cloqure Blatt: Blasigkeit | absent or very weak weak medium. strong | nul ou très faible faible moyenne forte | fehlend oder sehr gering gering mittel stark | | 1 3 5 7 |
| 14. Leaf: creasing' Feuille : plissement Blatt: Faltung | absent or very weak. weak medium strong | nulle ou très faible faible moyen fort | fehlend oder sehr gering gering mittel stark | Opaal Delira | 1 3 5 7 |
| *) 15. Leaf: undulation of margin Feuille : ondulation du bord Blatt: Wellung des Randes | absent, present | absente présente | fehlend vorhanden | Gloria | 1 9 |
| *) 16. Leaf: degree of undulation of margin Feuille : importance de l'ondulation du bord Blatt: Stärke der Wellung des Randes | weak medium. strong | faible moyenne forte | gering mittel stark | Alpha Delira | 3 5 7 |

TG/45/3 - Annex 1/Annexe 1/Anlage 1
 Cauliflower/Chou-fleur/Blumenkohl, 76-11-19
 page 3/Seite 3

| Characteristics. Caractères Merkmale | English | français | deutsch | Example Varieties Exemples Beispielssorten | Note |
|--|--|---|--|---|----------------------------------|
| 17. Leaf: width of midrib narrow Feuille : largeur de la medium nervure médiane wide Blatt: Breite der Mittelrippe | | étroite moyenne large | schmal mittel breit | | 3 5 0 |
| 18. Leaf: length of petiole short Feuille : longueur du medium petiole long Blatt: Länge des Stiels very long | | court moyen long très long | kurz mittel lang sehr lang | Mechelse Flora Blanca Sicilian Purple | 3 0 7 9 |
| (*) lg. Curd: covering by inner leaves partly covered Pomme I couverture par les feuilles internes covered Blume: Deckung durch innere Blätter | not covered partly covered covered | nulle partielle complète | nicht gedeckt teilweise aedeckt gedeckt | Opaal Nevada | 1 2 3 |
| (*) 20. Curd: size Pomme : taille Blume : Grösse | small medium large | petite moyenne grande | klein mittel gross | opaal Sesam, Alpha, Lecerf Flora Blanca, Progress | 3 0 5 7 |
| (*) 21. Curd: shape in longitudinal section Pomme : forme en section longitudinale Blume: Form im Längsschnitt | circular transverse broad elliptic transverse ellip- tic transverse narrow elliptic | circulaire elliptique peu aplatie elliptique moyennement aplatie elliptique très aplatie | rund quer breit ellip- tisch quer elliptisch quer schmal ellip- tisch | | 1 2 3 4 |
| (*) 22. Curd: doming Pomme : courbure du sommet Blume: Wölbung | weak medium strong | faible moyenne forte | gering mittel stark | | 3 5 7 |
| (*) 23. Curd: color Pomme : couleur Blume: Farbe | white ivory yellow orange green pink purple | blanche ivoire jaune orange verte rose pourpre | weiss elfenbeinfarben gelb orange grün rosa purpurfarben | | 01 2 3 4 5 6 7 |

TG/45/3 - Annex 1/Annexe 1/Anlage 1
 Cauliflower/Chou-fleur/Blumenkohl, 76-11-19
 page 4/Seite 4

| Characteristics.. Caractères Merkmale | English. | français | deutsch | Example Varieties Exemples Beispielssorten | Note |
|---|---------------------------|------------------------------|----------------------------------|--|------------------|
| 24. Curd: anthodyanin coloration Ponune : pigmentation anthocyanique Blume: Anthocyan- färbung | absent present | absente présente | fehlend, vorhanden | (1) | 9 |
| 25. Curd: knobbling Ponune : relief Blume: Höckerbildung | fine medium. coarse | fin moyen grossier | fein mittel grob | Opaal, Malinus Corvilia Progress, Lukra, Delira | 3 5 7 0 |
| 26. Curd: texture Pomme : granulation Blume: Körnung | fine medium coarse | fine moyenne grossière | fein mittel grob | Bali, Nevada Opaal | 3 5 0 |
| 27. Curd: riceness Ponune : duvet Blume: Griessigkeit | absent present | absent présent | fehlend vorhanden | (0) | 9 |
| 28. Curd: firmness Pomme : fermeté Blume: Festigkeit | lo & medium solid | lâche moyenne ferme | locker mittel fest | Gloria Delira | 3 5 7 |
| (*) 29. Flower: color Fleur : couleur Blüte: Farbe | white ivory yellow | blanche ivoire jaune | weiss elfenbeinfarben gelb | Delira, Lukra Blancal Flora Blanca, Sesam, Lecerf, Alpha | 1 2 3 |

[End of Annex 1, Annex 2 follows;
 Fin de l'annexe 1, l'annexe 2 suit;
 Ende der Anlage 1, Anlage 2 folgt]

EXHIBIT D ----ADDITIONAL INFORMATION - CAULIFLOWER SG 112 -'White Rock'

'White Rock' belongs to the late summer, autumn varieties.

'White Rock' has more leaves in the heart than 'Oze'.

'White Rock' has better self wrapping than 'Oze'.

Attachment - Table of Characteristics for Cauliflower