No. 7400073

THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

Denholm Seeds

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, OR 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 (4 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

MARIGOLD

'Stardust'

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* 30th *day of* September *in the year of our Lord one thousand nine hundred and* seventy-four

Attest:

Commissioner
Plant Variety Protection Office
Grain Division
Agricultural Marketing Service

Secretary of Agriculture

FORM GR-470
(12-15-72)

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

FORM APPROVED
OMB NO. 40-R3712

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

INSTRUCTIONS: *See Reverse.*

1. VARIETY NAME OR TEMPORARY DESIGNATION Stardust	2. KIND NAME Marigold	FOR OFFICIAL USE ONLY PV NUMBER 7400073
3. GENUS AND SPECIES NAME Tagetes Patula	4. FAMILY NAME *(Botanical)* Compositae	FILING DATE 3/11/74 — TIME 11:30 A.M.
	5. DATE OF DETERMINATION July 7, 1972	FEE RECEIVED $ 250.00 $ 250.00 $ 250.00 — BALANCE DUE $ — $ — $ —
6. NAME OF APPLICANT(S) Denholm Seeds	7. ADDRESS *(Street and No. or R.F.D. No., City, State, and ZIP Code)* 222 North A Street Lompoc, Calif. 93436	8. TELEPHONE AREA CODE AND NUMBER 805-736-2703
9. IF THE NAMED APPLICANT IS NOT A PERSON, FORM OF ORGANIZATION: *(Corporation, partnership, association, etc.)* Corporation	10. STATE OF INCORPORATION California	11. DATE OF INCORPORATION 1952

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

David G. Lemon
Denholm Seeds
222 North A Street
Lompoc, Calif. 93436

13. CHECK BOX BELOW FOR EACH ATTACHMENT SUBMITTED:

[X] 13A. Exhibit A, Origin and Breeding History of the Variety *(See Section 52 of the Plant Variety Protection Act.)*

[X] 13B. Exhibit B, Botanical Description of the Variety

[X] 13C. Exhibit C, Objective Description of the Variety

[X] 13D. Exhibit D, Data Indicative of Novelty

[X] 13E. Exhibit E, Statement of the Basis of Applicant's Ownership

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 [X] NO

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

14C. If "Yes," to 14B, how many generations of production beyond breeder seed? [ ] FOUNDATION [ ] REGISTERED [ ] CERTIFIED

The applicant declares 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) of this sexually-reproduced novel plant variety believes 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 Protection Act.

Applicant is informed that false representation herein can jeopardize protection and result in penalties.

May 10, 1974
(DATE)

David G. Lemon
(SIGNATURE OF APPLICANT)

(DATE)

(SIGNATURE OF APPLICANT)

DENHOLM SEEDS

PV # 7400073

Exhibit A

Origin and Breeding History of the Variety

1. Stardust originated as a mutant of the variety Sparky and was selected in 1966 in Lompoc, California. This was re-selected for three years and the first mass selection was made in 1970. The first crop was grown in 1972. In 1973 this variety was entered in the Fleuroselect trials and was placed on the Novelty Register for a five year period of protection in Europe.

2. The variety is now stable for height and color and has performed very well in trials in the U.S.A. and Europe.

PV No. 7400073

DENHOLM SEEDS

Exhibit B

Botanical Description of the Variety

Stardust is a dwarf French Marigold (Tagetes Patula C.V.). It is a tetraploid N-48. Plant height is 20-25 inches and habit is semi-erect and compact. The leaves are compound and the leaflets are filiform. The stems are zig-zag. Flower type is crested and the color is deep yellow and bicolor.

The nearest variety is Del Sol for color and plant habit. Del Sol has carnation type flowers in contrast to Stardust. Stardust is a new and distinct color in the large flowered crested type of French Marigold.

FORM GR-470-9
(9-15-72)

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

EXHIBIT C
(Marigold)

OBJECTIVE DESCRIPTION OF VARIETY

MARIGOLD *(TAGETE)*

INSTRUCTIONS - *See Reverse.*

NAME OF APPLICANT(S)

Denholm Seeds

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

222 North A Street
Lompoc, California 93436

FOR OFFICIAL USE ONLY

PVPO NUMBER

74-00073

VARIETY NAME OR TEMPORARY DESIGNATION

Stardust

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][8]) when number is either 99 or less or 9 or less.

1. SPECIES TYPE:

[2] 1 = ERECTA *(African)* 2 = PATULA *(French)* 3 = TENUIFOLIA *(Signata)* 4 = LUCIDA *(Sweet)*
5 = OTHER *(Specify)* _____

2. PLOIDY:

[3] 1 = DIPLOID (n = _____) 2 = TRIPLOID (n = _____) 3 = TETRAPLOID (n = _____)

3. PLANT TYPE/HABIT:

[2] 1 = EXTRA DWARF *(Miniature, petite)* < 20 CM. 2 = DWARF 25-35 CM. 3 = SEMIDWARF 40-55 CM. 4 = TALL > 60 CM.

[2] 1 = ERECT 2 = SEMIERECT 3 = DECUMBENT

[1] 1 = COMPACT 2 = LAX

[1] Flowering: 1 = LONG SEASON 2 = SHORT SEASON

4. LEAF *(Middle of first flowering branch):*

[2] Type: 1 = SIMPLE 2 = COMPOUND

[4] Leaflet: 1 = OVATE 2 = LANCEOLATE 3 = ELLIPTIC 4 = FILIFORM

[5] Margin: 1 = ENTIRE 2 = CRENATE 3 = SERRATE 4 = DENTATE 5 = INCISED

[0][1][0] CM. LONG [6][0] MM. WIDE [1] Anthocyanin pigment in petioles: 1 = ABSENT 2 = PRESENT

[1] Glands: 1 = PUNCTATE 2 = LARGE DOTS [2] Glands: 1 = BASAL 2 = APICAL

[4] Odor: 1 = NONE 2 = MILD FRAGRANCE 3 = STRONG FRAGRANCE 4 = MILD "MARIGOLD" 5 = STRONG "MARIGOLD"

5. STEM:

[2] 1 = STRAIGHT 2 = ZIGZAG [2] 1 = BRITTLE 2 = FLEXIBLE

[3] *Anthocyanin:* 1 = ABSENT 2 = ALONG VEINS ONLY 3 = SOLID COLORATION [1][5] CM. FROM BASE OF STEM TO INVOLUCRE OF TERMINAL FLOWER

[0][7] CM. FROM BASE OF MAIN STEM TO AXIL OF TOP BRANCH [0][5] CM. FROM AXIL OF TOP BRANCH TO INVOLUCRE OF TERMINAL FLOWER

[0][1] NO. OF INTERNODES BELOW FIRST BRANCH [ ][4] NO. OF FIRST ORDER BRANCHES *(from main stem)*

6. FLOWER:

[3] *Type:* 1 = CARNATION 2 = CHRYSANTHEMUM 3 = OTHER Crested

[2] 1 = SINGLES 2 = DOUBLES

[2] *Silhoutte:* 1 = FLATTENED 2 = ROSETTE 3 = GLOBULAR

[4] *Odor:* 1 = NONE 2 = MILD FRAGRANCE 3 = STRONG FRAGRANCE 4 = MILD "MARIGOLD" 5 = STRONG "MARIGOLD"

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DENHOLM SEEDS

Exhibit D

Data Indicative of Novelty

1. Stardust is a new color in the new large flowered crested type of French Marigold. It is similar in color to Del Sol but differs in flower type from the latter which is carnation flowered.

2. Two photographs and seed sample enclosed.

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DENHOLM SEEDS

Exhibit E

Statement of Applicant's Ownership

Denholm Seeds, Lompoc, California, is the sole, original and first breeder of the "Stardust" variety of Dwarf French Marigold which it solicits for variety protection.

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, 6525 Belcrest Road, Hyattsville, Maryland 20782. (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 Insert the date the applicant determined that he had a new variety based on the definition in Section 41 (a) of the Act and decision is made to increase the seed.

13a First, give the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method. Second, give the details of subsequent stages of selection and multiplication. Third, indicate the type and frequency of variants during reproduction and multiplication and state how these variants may be identified. Fourth, provide evidence on stability.

13b First, give any special characteristics of the seed and of the plant as it passes through the seedling stage, flowering stage and the fruiting stage. Second, describe the mature plant and compare it with a similar commercial variety grown under the same conditions, and indicate the differences.

13c A supplemental form will be furnished by the PVPO to describe in detail a variety for each kind of seed.

13d Provide complete data indicative of novelty. Seed and plant specimens or photographs of seed and plant comparisons clearly indicating novelty may be submitted. Seeds submitted may be sterile.

13e Indicate whether applicant is the actual breeder, the employer of the breeder, the owner through purchase or inheritance, etc.

rec'd
3/11/74 12:00

6. FLOWER: *(Continued)*

[1] Ray: 1 = FLATTENED 2 = CURLED/TWISTED *(Fantastic)*

[2] Apices: 1 = ENTIRE 2 = LOBED 3 = NOTCHED

[1] SURFACE - Dorsal:
[1] SURFACE - Ventral: } 1 = GLABROUS 2 = PUBESCENT 3 = PUBESCENT ON APICE ONLY

[1] LUSTER - Dorsal:
[2] LUSTER - Ventral: } 1 = SHINY 2 = DULL

[4] PATTERN - Dorsal:
[1] PATTERN - Ventral: } 1 = SOLID 2 = SPOTTED 3 = STRIPED 4 = PICOTEE 5 = OTHER *(Specify)* _____

[2] Color: 1 = SOLID 2 = BICOLOR *(Specify colors)*: Primary vivid Yellow Secondary dark Reddish Orange

State color standards used: Nickerson

SIZE *(Use outer row of first matured flower)*: [0 4] MM. LONG [0 5] MM. WIDE

[3] Disc: 1 = ABSENT 2 = PRESENT, COVERED 3 = PRESENT, UNCOVERED

[2] Type: 1 = NOT QUILLED 2 = QUILLED

7. DISEASE RESISTANCE *(0 = Not Tested; 1 = Susceptible; 2 = Resistant)*

[0] ROOT-ROT *(Phytophthora)*
[0] GREY MOLD *(Botrytis)*
[0] STEM ROT *(Sclerotinia)*
[0] VIRUS YELLOWS
[0] FUSARIUM WILT
[0] WITCHES BROOM

8. INDICATE A VARIETY THAT MOST NEARLY RESEMBLE THAT SUBMITTED

CHARACTER	VARIETY	CHARACTER	VARIETY
Plant shape	Del Sol	Flower size	Del Sol
Plant size	Del Sol	Flower shape	Honeymoon
Foliage	Del Sol	Flower color	Del Sol

INSTRUCTIONS

REFERENCES: The following publications may be used as a reference aid for completing this form:

(a) Bailey, L. H., 1949, Manual of Cultivated Plants, MacMillan.

(b) Royal Horticulture Society, 1965, Dictionary of Gardening, Oxford.

(c) Wyman, Donald, 1971, Wyman's Gardening Encyclopedia, MacMillan.

COLOR: Nickerson's or any recognized color fan may be used to determine the colors.