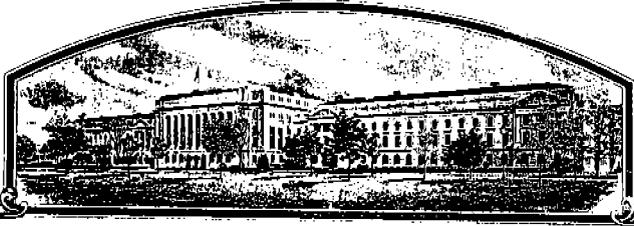


No.

7500060



# THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

*ACCO Seed CARGILL Inc*

Whereas, THERE HAS BEEN PRESENTED TO THE *DAK*  
**Secretary of Agriculture** *8/12/80*

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 VARIETY 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 PROVIDED IN THE CASE OF CERTIFIED SEED AND (2) SHALL CONFORM TO THE NUMBER OF GENERATIONS SPECIFIED BY THE OWNER OF THE RIGHTS. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

COTTON

'*Paymaster 303*'

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 14th day of May in the year of our Lord one thousand nine hundred and seventy-six

Attest:

*S. J. Rollin*  
Commissioner  
Plant Variety Protection Office  
Grain Division  
Agricultural Marketing Service

*Bob Berglund*  
Secretary of Agriculture



APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

INSTRUCTIONS: See Reverse.

1. VARIETY NAME OR TEMPORARY DESIGNATION <b>PAYMASTER 303</b>	2. KIND NAME <b>COTTON</b>	FOR OFFICIAL USE ONLY	
		PV NUMBER <b>7500060</b>	
3. GENUS AND SPECIES NAME <b>Gossypium hirsutum</b>	4. FAMILY NAME (Botanical) <b>MALVACEAE</b>	FILING DATE <b>2-20-75</b>	TIME <b>1:30 P.M.</b>
		FEE RECEIVED <b>\$ 250.00</b>	BALANCE DUE <b>\$ -</b>
	5. DATE OF DETERMINATION <b>December, 1970</b>	<b>\$ 250.00</b>	<b>\$ -</b>
		<b>\$ 250.00</b>	<b>\$ -</b>
6. NAME OF APPLICANT(S) <del>ACCO SEED</del> <b>CARBILL Inc</b> <del>Division of Anderson,</del> <del>Clayton &amp; Company</del>	7. ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP Code) <b>15615 W. MCGINTY RD</b> <b>P. O. Box 1630 MINNETONKA</b> <b>Plainview, Texas 79072 MINN</b> <b>55343</b>	8. TELEPHONE AREA CODE AND NUMBER <b>(806) 652-3312</b>	
9. IF THE NAMED APPLICANT IS NOT A PERSON, FORM OF ORGANIZATION: (Corporation, partnership, association, etc.) <b>Corporation</b>	10. STATE OF INCORPORATION <b>Delaware</b>	11. DATE OF INCORPORATION <b>1929</b>	

12. Name and mailing address of applicant representative(s), if any, to serve in this application and receive all papers:  
**Dr. Delbert Hess**  
**ACCO SEED**  
**P. O. Box 1630**  
**Plainview, Texas 79072**      **TELEPHONE (806) 652-3312**

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, Botanical Description of the Variety
  - 13C. Exhibit C, Objective Description of the Variety
  - 13D. Exhibit D, Data Indicative of Novelty
  - 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       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?       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.

2/14/75 (DATE)

W. I. McKay (SIGNATURE OF APPLICANT)      00001

**W. I. McKay, President ACCO Seed**

\_\_\_\_ (SIGNATURE OF APPLICANT)

## 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.

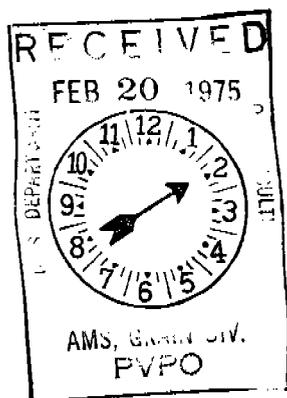
13a First, give the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method. Second, give the details of subsequent stages of selection and multiplication. Third, indicate the type and frequency of variants during reproduction and multiplication and state 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.



## EXHIBIT A

## Origin and Breeding History

Paymaster 303 was developed from a cross of Paymaster 111 and Paymaster 18 made in 1960 by ACCO Seed (then Paymaster) breeders. The F<sub>2</sub> populations of the above cross were grown in 1961 and plant to row plant selections were made during subsequent years. In 1968 a row that appeared to be superior was bulk harvested and subsequently tested in replicated variety trials. The superior performance of this material prompted the initial increase in Iguala, Mexico during the winter of 1969-70. Observation of this increase revealed some variation in plant height. This variation has been prevalent in all subsequent increases, the prevalence of the talls being dependent on plant populations and environmental conditions. Lots of seed increased from the 1969-70 Mexico increase have demonstrated stability in that appearance, yield, performance, disease tolerance and fiber properties are essentially the same in the lots being grown in 1974 as they were in the earlier grown lots.

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## EXHIBIT B

## Botanical Description

The seed of Paymaster 303 have no special characteristics and no unusual characteristics of the plants through the seedling stage have been observed.

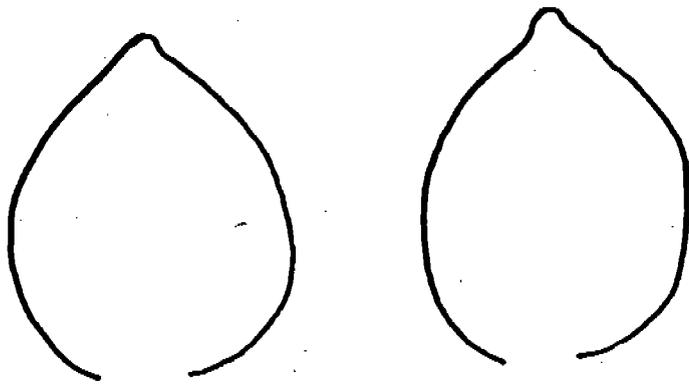
The mature plants are shorter than most commercial stripper varieties being approximately six cm shorter than those of Paymaster 111-A. Fruiting branches are shorter than those of Paymaster 111-A and seldom have more than 2 bolls per branch. Lint percent on a stripped basis is usually considerably higher than that of Paymaster 111-A. Paymaster 303 averaged 24.0 percent and Paymaster 111-A 22.4 percent lint when averaged over 21 replications grown at several locations during the three year period 1971-1973. The bolls are slightly smaller than those of Paymaster 111-A and typically shaped as shown on the attached sketch. Bolls are somewhat pointed but not as sharply as those of Paymaster 111-A.

Several morphological measurements based on the average of 10 typical plants are:

Bracteole length	4.75 cm
Bracteole width	2.97 cm
Calyx length	1.24 cm
Style length	2.70 cm
Boll length	4.85 cm
Boll width	3.57 cm

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Shape of typical Paymaster 303 bolls

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OBJECTIVE DESCRIPTION OF VARIETY  
COTTON (GOSSYPIUM SPP.)

INSTRUCTIONS: See Reverse.

NAME OF APPLICANT(S) ACCO SEED		FOR OFFICIAL USE ONLY	
ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP Code) P. O. Box 1630 Plainview, Texas 79072		PVPO NUMBER 7500060	VARIETY NAME OR TEMPORARY DESIGNATION Paymaster 303

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. SPECIES:

1 = GOSSYPIUM HIRSUTUM       2 = GOSSYPIUM BARBADENSE

2. AREA(S) OF ADAPTION (0 = Not Tested, 1 = Not Adapted, 2 = Adapted):

EASTERN       DELTA       2 CENTRAL       2 HIGH PLAINS       EL PASO AREA

WESTERN LOW HOT VALLEYS       0 SAN JOAQUIN       OTHER (Specify) \_\_\_\_\_

3. MATURITY (50% Open Boll):

<input type="checkbox"/> 0 <input type="checkbox"/> 3	NO. OF DAYS EARLIER THAN .....	<input type="checkbox"/> 4	} 1 = COKER 310    2 = DELTAPINE 16    3 = STONEVILLE 213 4 = PAYMASTER 111    5 = ACALA 1517-70    6 = ACALA SJ-1 7 = LANKART 57    8 = OTHER (Specify) _____
<input type="checkbox"/> <input type="checkbox"/>	NO. OF DAYS LATER THAN .....	<input type="checkbox"/>	

4. PLANT HABIT:

2 1 = SPREADING    2 = INTERMEDIATE    3 = COMPACT       3 1 = FOLIAGE SPARSE    2 = DENSE  
3 = OTHER (Specify) Intermediate

5. PLANT HEIGHT:

<input type="checkbox"/> 0 <input type="checkbox"/> 6	CM. SHORTER THAN .....	<input type="checkbox"/> 4	} 1 = COKER 310    2 = DELTAPINE 16    3 = STONEVILLE 213 4 = PAYMASTER 111    5 = ACALA 1517-70    6 = ACALA SJ-1 7 = LANKART 57    8 = OTHER (Specify) _____
<input type="checkbox"/> <input type="checkbox"/>	CM. TALLER THAN .....	<input type="checkbox"/>	

6. MAIN STEM:

3 1 = LAX    2 = ASCENDING    3 = ERECT       10 CM. TO FIRST FRUITING BRANCH       5  7 NO. OF NODES TO FIRST FRUITING BRANCH  
(from cotyledonary node)

7. LEAF:

1  3 CM. WIDTH OF WIDEST LEAVES AT MATURITY

8. LEAF PUBESCENCE:

5 1 = GLABROUS (HAIRS AS SPARSE AS D<sub>2</sub> SMOOTH)  
2 = SMOOTH LEAF (DELTAPINE SMOOTH LEAF)    3 = PUBESCENT (STONEVILLE 213)  
4 = HEAVY PUBESCENCE (H<sub>1</sub> OR H<sub>2</sub>)    5 = OTHER (Specify) variable

9. LEAF COLOR:

2 1 = VIRESCENT YELLOW    2 = LIGHT GREEN    3 = DARK GREEN (Acala-442)    4 = RED  
5 = OTHER (Specify) \_\_\_\_\_

10. LEAF TYPE:

1 1 = NORMAL    2 = OKRA    3 = SUPER OKRA    4 = OTHER (Specify) \_\_\_\_\_

11. FLOWER:

2 1 = NECTARILESS    2 = NECTARIED

1 Petals: 1 = CREAM    2 = YELLOW       1 Pollen: 1 = CREAM    2 = YELLOW

12. FRUITING BRANCH TYPE:

3 1 = CLUSTER    2 = SHORT    3 = NORMAL       2 1 = DETERMINATE    2 = INDETERMINATE      00005

13. GOSSYPOL CONDITION:

3 1 = GLANDLESS    2 = REDUCED GLANDS    3 = NORMAL GLANDS       1 1 = NORMAL BUD GOSSYPOL  
4 = OTHER (Specify) \_\_\_\_\_      2 = HIGH BUD GOSSYPOL

14. SEEDS:

1  2  5 ±  1  5 SEED INDEX (Fuzzy seed basis)       2 Seed Fuzz: 1 = SPARSE (GREGG 35)    2 = MODERATE (DPL-16)  
3 = HEAVY (ACALA SJ-1)    4 = OTHER (Specify) \_\_\_\_\_

EXHIBIT D  
Data Indicative of Novelty

Paymaster 303 most closely resembles Paymaster 111-A, including fiber properties. However, Paymaster 303 is novel and is different from Paymaster 111-A in that Paymaster 303 (1) is approximately 4 inches shorter in plant height, (2) yields approximately 17 percent more pounds of lint per acre, (3) has a stripped lint percent approximately 1.6 percent higher, (4) has 25 to 50 percent fewer of the plants showing Verticillium wilt symptoms, (5) has a boll that is not as sharply pointed, and (6) has bolls that contain 4.8 percent less seed cotton per boll.

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Three year summary of cotton varieties and strains grown on the Texas High Plains in ACCO Seed Cotton Yield Trials, 1971 - 1973 (Seven test average)

Variety or strain	Yield lbs/a	Lint percent	Fiber Properties				Plt ht inches	Visual 0-9	Storm res. 0-5	Vert wi 0-99
			Length 32nd in.	Strength g/tex	Mic units	Mic units				
Paymaster 111-A	710	22.4	32.5	21.9	3.5	28.5	5.7	2.8	47.2	
Paymaster 909	731	22.5	31.2	22.9	4.0	30.4	5.8	2.7	23.9	
Paymaster 202	753	24.0	31.0	24.4	3.7	27.6	4.9	4.6	63.3	
Paymaster 303	836	24.0	32.7	22.1	3.5	24.5	7.3	3.3	23.0	
Paymaster 266 B9-24	740	23.1	33.6	22.7	3.3	24.0	6.7	3.9	15.6	
Paymaster 266 589-184	817	23.6	34.4	23.6	3.4	24.2	7.2	3.9	13.9	
Paymaster 18	708	23.2	29.2	22.2	4.3	28.2	6.1	4.1	46.1	
Paymaster 18-71	738	23.8	30.4	22.3	4.3	27.2	6.6	4.1	44.5	
B9-952	860	24.8	30.9	22.6	4.1	30.0	6.5	3.9	33.7	
B9-952-1	826	25.7	30.1	23.6	4.4	27.8	6.6	4.3	31.1	
61M283 B9-3765	828	25.3	29.9	21.7	3.6	28.9	7.2	3.2	30.0	
346x352 B9-3972	807	24.5	34.8	22.9	3.6	30.1	6.0	2.7	35.6	
Tamcot 788	829	25.2	33.2	23.2	3.3	28.7	6.0	4.4	43.9	
Coker 5110	775	23.3	34.4	22.0	3.4	30.5	6.2	2.4	33.4	
Lankart LX571	587	22.5	33.1	22.2	3.5	24.1	4.2	3.6	64.3	
Acala 3080	669	21.0	35.6	26.1	3.5	36.0	4.6	1.7	17.3	

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EXHIBIT E  
Statement of the Basis of Applicant's Ownership

All development work on this variety was done by breeders employed by the applicant, ACCO Seed, Division of Anderson, Clayton & Company.

This variety was approved for certification by the Texas Seed and Plant Board on March 26, 1974.

ACCO Seed is the owner of Paymaster 303.

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add the following  
to Exhibit A

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Letter of June 17, 1975

When plants are  
grown sparsely  
(less than approximately  
5 plants per foot of row)  
approximately 1 percent  
of the plants are 2-4  
inches taller than the  
average height of other  
plants.