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4. Name of conveying party(ies):

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³Harvell, Leslie T.

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Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

Execution Date: ¹10/2/2000 ²9/26/2000

³10/3/2000 ⁴10/11/2000

⁵9/26/2000 ⁶10/18/2000

5. Name and address of receiving party(ies):

**E. I. DU PONT DE NEMOURS AND COMPANY
LEGAL PATENTS
1007 MARKET STREET
WILMINGTON, DELAWARE 19898**

Additional name(s) & address(es) attached? ☐ Yes ☒ No

5. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is:

A. Patent Application No.(s): **PCT/US00/21008**

B. Patent No.(s):

Docket No.: **BB-1373 PCT**

Additional numbers attached: ☐ Yes ☒ No

6. Correspondent Name & Address:

THOMAS M. RIZZO

E. I. DU PONT DE NEMOURS AND COMPANY

LEGAL-PATENTS

1007 MARKET STREET

WILMINGTON, DELAWARE 19898

7. Total number of applications and patents involved: 1

8. Total fee (37 CFR 3.41) \$40.00

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To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

CAROL REEDER

SENIOR LEGAL CLERK

Carol Reeder

Signature

7/26/2001

Date

Total number of pages comprising cover sheet: 1

**PATENT
REEL: 012540 FRAME: 0534**

ASSIGNMENT

We, the undersigned

CAHOON, Rebecca E., GUTTERIDGE, Steven, HARVELL, Leslie T., RAFALSKI, J. Antoni, TAO, Yong and WENG, Zude

Hereby declare that

We are the true and first inventors of an invention relating to

POLYNUCLEOTIDES ENCODING AMINOLEVULINIC ACID BIOSYNTHETIC ENZYMES

which is disclosed in PCT International Application, **PCT/US00/21008** filed the **28th** day of **July, 2000** (Case No. **BB1373PCT**); in which the United States of America is a designated state for Letters Patent; and, for valuable consideration, the receipt and adequacy of which is hereby acknowledged and in fulfillment of our pre-existing obligation of assignment, we hereby sell, assign, and transfer unto **E. I. du Pont de Nemours and Company**, a corporation organized and existing under the laws of the State of Delaware in the United States of America and having its principal place of business at Wilmington, Delaware, hereinafter referred to as the assignee, the entire right, title, and interest in and to the aforesaid application for Letters Patent, including any priority rights derived from the aforesaid application for Letters Patent by virtue of the International Convention for the Protection of Industrial Property for any and all member countries of the aforesaid International Convention, and the entire right, title and interest in and to any and all our inventions, whether joint or sole, disclosed in the aforesaid application for Letters Patent, and in and to any and all applications for Letters Patent for any such inventions in any country whatsoever, and in and to any and all patents for any such inventions in any country whatsoever, with the sole right to file such applications in its name or ours, including the sole right to file such applications under the aforesaid International Convention, together with the sole right to have said patents granted in its name or ours and to enforce said patents and to sue for and recover profits and damages for any and all infringements thereof, and hereby agree, whenever requested, to communicate to said assignee, its successors, assigns, and legal representatives, any facts known to us respecting said inventions, to testify in any legal proceeding, to execute all applications, papers or instruments necessary or required by said assignee, its successors, assigns and legal representatives to carry into effect any of the provisions of this instrument, and generally to do everything possible to aid said assignee, its successors, assigns, and legal representatives to obtain and enforce proper patent protection for said inventions in any and all countries.

Rebecca E. Cahoon (L.S.)
CAHOON, Rebecca E.

DATE: October 2, 2000

Leslie Harvell (L.S.)
HARVELL, Leslie T.

DATE: October 3, 2000

Yong TAO (L.S.)
TAO, Yong

DATE: September 26th 2000

Steven Gutteridge (L.S.)
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J. Antoni Rafalski (L.S.)
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DATE: 10-11-2000

Zude Weng (L.S.)
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DATE: 10-18-2000