

10-16-2000



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FORM PTO-1595  
(Rev. 6-93)

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To the Honorable Commissioner of Patents and Trademarks: Please record the attached original document or copy thereof.

1. Name of conveying party(ies): <b>Henry E. Valentin, Kenneth J. Gruys</b> Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		2. Name and address of receiving party(ies): Name: <b>Monsanto Company</b> Street Address: <b>800 N. Lindbergh Blvd.</b> City: <b>St. Louis</b> State: <b>MO</b> Zip: <b>63167</b> Additional name(s) & address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
3. Nature of conveyance: <input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Merger <input type="checkbox"/> Security Agreement <input type="checkbox"/> Change of Name <input type="checkbox"/> Other Execution Date: <b>07/25/00, 08/08/00, respectively</b>			
4. Application number(s) or registration 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): <b>09/479,040</b> B. Patent No. (s): <b>MRD 8-24-00</b> Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
5. Name and address of party to whom correspondence concerning document should be mailed: Name: <b>Patricia Kammerer</b> <b>Howrey Simon Arnold &amp; White, LLP</b> <b>750 Bering Drive</b> City: <b>Houston</b> State: <b>Texas</b> Zip: <b>77057-2198</b>		6. Total number of applications and patents involved: <u>1</u> 7. Total fee (37 C.F.R. 3.41)----- \$ <u>40.00</u> <input type="checkbox"/> Enclosed <input checked="" type="checkbox"/> Authorized to be charged to deposit account if check insufficient or inadvertently omitted 8. Deposit account number: <b>01-2508/11899.0212.NPUS00</b> (Attach duplicate copy of this page if paying by deposit account)	
<b>DO NOT USE THIS SPACE</b>			
9. Statement and signature. <i>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.</i> <div style="display: flex; justify-content: space-between;"> <div> <b>Patricia Kammerer</b>            Name of Person Signing, Reg. No. 29,775         </div> <div>             Signature         </div> <div> <b>21 AUG 00</b>            Date         </div> </div>			
Total number of pages including cover sheet, attachments and documents: <u>3</u>			

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Box Assignment

Washington, D.C. 20231

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CERTIFICATE OF MAILING 37 C.F.R. 1.8	
I hereby certify that this correspondence is being deposited with the U.S. Postal Service with sufficient postage as First Class Mail in an envelope addressed to: Commissioner of Patents and Trademarks, Office of Public Records, Crystal Gateway 4, Room 335, Washington, DC 20231, on the date below:	
<u>8-21-00</u> Date	 Signature

ASSIGNMENT

FOR GOOD AND VALUABLE CONSIDERATION, the receipt, sufficiency and adequacy of which are hereby acknowledged, the undersigned, do hereby:

SELL, ASSIGN AND TRANSFER to **Monsanto Company** (the "Assignee"), having a place of business at 800 N. Lindbergh Boulevard, St. Louis, Missouri 63167, the entire right, title and interest for the United States and all foreign countries in and to any and all improvements which are disclosed in the application for United States Letters Patent, Serial No. **09/479,040** which has been filed on January 7, 2000 and is entitled "**Polyhydroxyalkanoate Biosynthesis Associated Proteins and Coding Region in Bacillus Megaterium**", such application and all divisional, continuing, substitute, renewal, reissue and all other applications for patent which have been or shall be filed in the United States and all foreign countries on any of such improvements; all original and reissued patents which have been or shall be issued in the United States and all foreign countries on such improvements; and specifically including the right to file foreign applications under the provisions of any convention or treaty and claim priority based on such application in the United States;

AUTHORIZE AND REQUEST the issuing authority to issue any and all United States and foreign patents granted on such improvements to the Assignee;

WARRANT AND COVENANT that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been or will be made to others by the undersigned, and that the full right to convey the same as herein expressed is possessed by the undersigned;

COVENANT, when requested and at the expense of the Assignee, to carry out in good faith the intent and purpose of this assignment, the undersigned will execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all such improvements; execute all rightful oaths, declarations, assignments, powers of attorney and other papers; communicate to the Assignee all facts known to the undersigned relating to such improvements and the history thereof; and generally do everything possible which the Assignee shall consider desirable for vesting title to such improvements in the Assignee, and for securing, maintaining and enforcing proper patent protection for such improvements;

TO BE BINDING on the heirs, assigns, representatives and successors of the undersigned and extend to the successors, assigns and nominees of the Assignee.

Signature: Henry E. Valentin  
Name: Henry E. Valentin

Date: 7/25/2000

STATE OF MISSOURI )  
 ) ss.  
COUNTY OF ST. LOUIS ST. CHARLES

BEFORE ME, the undersigned authority, on this 25<sup>th</sup> day of JULY, 2000, personally appeared Henry E. Valentin, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that he executed the same of his own free will for the purposes and consideration therein expressed.



Terril Thebeau  
Notary or Consular Officer

Signature: Kenneth J. Gruys  
Name: Kenneth J. Gruys

Date: 8/8/00

STATE OF MISSOURI )  
 ) ss.  
COUNTY OF ST. LOUIS )

BEFORE ME, the undersigned authority, on this 8<sup>th</sup> day of August, 2000, personally appeared Kenneth J. Gruys, known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that he executed the same of his own free will for the purposes and consideration therein expressed.

[SEAL]

Joyce H. Krebs  
Notary or Consular Officer

**JOYCE H. KREBS**  
**NOTARY PUBLIC - STATE OF MISSOURI**  
**MY COMMISSION EXPIRES 8/10/2002**  
**ST. LOUIS COUNTY**

HOWERY SIMON ARNOLD & WHITE  
750 Bering Drive  
Houston, Texas 77057-2198

**PATENTS ONLY**

**Patent and Trademark Office**

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original document or copy thereof.

<p>1. Name of conveying party(ies): <b>Monsanto Company</b></p> <p>Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <hr/> <p>3. Nature of conveyance:  <input checked="" type="checkbox"/> Assignment                      <input type="checkbox"/> Merger  <input type="checkbox"/> Security Agreement              <input type="checkbox"/> Change of Name  <input type="checkbox"/> Other</p> <p>Execution Date: <b>07/26/00</b></p>	<p>2. Name and address of receiving party(ies):  Name: <b>University of Massachusetts</b>  Street Address: <b>Goodell Building</b>  City: <b>Amherst</b> State: <b>MA</b> Zip: <b>01003</b></p> <p>Additional name(s) &amp; address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>			
<p>4. Application number(s) or registration number(s):</p> <p>If this document is being filed together with a new application, the execution date of the application is:</p> <table style="width: 100%;"> <tr> <td style="width: 50%;">A. Patent Application No. (s):  <b>09/479,040</b></td> <td style="width: 50%;">B. Patent No. (s):</td> </tr> </table> <p style="text-align: right;">Additional numbers attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>		A. Patent Application No. (s):  <b>09/479,040</b>	B. Patent No. (s):	
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<p><b>DO NOT USE THIS SPACE</b></p>				
<p>9. Statement and signature.</p> <p><i>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.</i></p> <p style="text-align: center;"><b>Patricia Kammerer</b>                      <u><i>Pat Kammerer</i></u>                      <u>21 AUG 00</u></p> <table style="width: 100%;"> <tr> <td style="width: 50%;">Name of Person Signing, Reg. No. 29.775</td> <td style="width: 25%;">Signature</td> <td style="width: 25%;">Date</td> </tr> </table> <p style="text-align: right;">Total number of pages including cover sheet, attachments and documents: <u>  3  </u></p>		Name of Person Signing, Reg. No. 29.775	Signature	Date
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**Washington, D.C. 20231**

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<p><u>8-21-00</u></p> <p>Date</p>	<p><u><i>Elizabeth May</i></u></p> <p>Signature</p>

ASSIGNMENT

FOR GOOD AND VALUABLE CONSIDERATION, the receipt, sufficiency and adequacy of which are hereby acknowledged, the undersigned, do hereby:

SELL, ASSIGN AND TRANSFER to the **University of Massachusetts** (the "Assignee"), having a place of business at Goodell Building, Amherst, MA 01003, the entire right, title and interest for the United States and all foreign countries in and to any and all improvements which are disclosed in the application for United States Letters Patent, Serial No. **09/479,040** which has been filed on January 7, 2000 and is entitled "**Polyhydroxyalkanoate Biosynthesis Associated Proteins and Coding Region in Bacillus Megaterium**", such application and all divisional, continuing, substitute, renewal, reissue and all other applications for patent which have been or shall be filed in the United States and all foreign countries on any of such improvements; all original and reissued patents which have been or shall be issued in the United States and all foreign countries on such improvements; and specifically including the right to file foreign applications under the provisions of any convention or treaty and claim priority based on such application in the United States;

AUTHORIZE AND REQUEST the issuing authority to issue any and all United States and foreign patents granted on such improvements to the Assignee;

WARRANT AND COVENANT that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been or will be made to others by the undersigned, and that the full right to convey the same as herein expressed is possessed by the undersigned;

COVENANT, when requested and at the expense of the Assignee, to carry out in good faith the intent and purpose of this assignment, the undersigned will execute all divisional, continuing, substitute, renewal, reissue, and all other patent applications on any and all such improvements; execute all rightful oaths, declarations, assignments, powers of attorney and other papers; communicate to the Assignee all facts known to the undersigned relating to such improvements and the history thereof; and generally do everything possible which the Assignee shall consider desirable for vesting title to such improvements in the Assignee, and for securing, maintaining and enforcing proper patent protection for such improvements;

TO BE BINDING on the heirs, assigns, representatives and successors of the undersigned and extend to the successors, assigns and nominees of the Assignee.

MONSANTO COMPANY

Signature: \_\_\_\_\_

Name: Jon H. Beusen

Jon H. Beusen  
Intellectual Property Counsel  
Authorized to sign this document for  
Pharmacia Corporation (formerly Monsanto Company)  
by resolution dated February 25, 2000  
of the Board of Directors

Date: \_\_\_\_\_

July 26, 2000

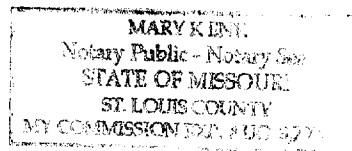
STATE OF MISSOURI )

) ss.

COUNTY OF ST. LOUIS )

BEFORE ME, the undersigned authority, on this 26<sup>th</sup> day of July, 2000, personally appeared Jon H. Beusen, authorized to sign this document for Monsanto Company by resolution dated October 22, 1999 of the Board of Directors, and known to me to be the person whose name is subscribed to the foregoing instrument and acknowledged to me that he executed the same of his own free will for the purposes and consideration therein expressed.

Mary K. Enk  
Notary or Consular Officer



HOWERY SIMON ARNOLD & WHITE

750 Bering Drive  
Houston, Texas 77057-2198