

07-05-2001



**FORM COVER SHEET
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To the Honorable

101767400

cks: Please record the attached original documents or copy thereof

<p>1. Submission Type:</p> <p><input checked="" type="checkbox"/> New <input type="checkbox"/> Resubmission (Non-Recordation) Document ID# _____ <input type="checkbox"/> Correction of PTO Error Reel # _____ Frame # _____ <input type="checkbox"/> Corrective Document Reel # _____ Frame # _____</p> <p>Data Element in Question : _____</p>	<p>2. Conveyance Type:</p> <p><input checked="" type="checkbox"/> Assignment <input type="checkbox"/> Security Agreement <input type="checkbox"/> License <input type="checkbox"/> Change of Name <input type="checkbox"/> Merger <input type="checkbox"/> Other _____</p> <p style="text-align: center;">US. GOVERNMENT (For Use ONLY by U.S. Government Agencies)</p> <p><input type="checkbox"/> Departmental File <input type="checkbox"/> Secret File</p> <p>Total No. of pages of conveyance document including attachments: _____</p>
<p>4. Name of conveying party(ies):</p> <p>¹Allen, Stephen M. ²Lightner, Jonathan E. ³Rafalski, J. Antoni ⁴Thorpe, Catherine J.</p> <p>Additional name(s) of conveying party(ies) attached?: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>Execution Date: ¹03/12/2001 ²02/07/2001 ³03/12/2001 ⁴03/05/2001</p>	<p>5. Name and address of receiving party(ies):</p> <p>E. I. DU PONT DE NEMOURS AND COMPANY LEGAL PATENTS 1007 MARKET STREET WILMINGTON, DELAWARE 19898</p> <p>Additional name(s) & address(es) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p style="font-size: 2em; text-align: center;"><i>UNC 6/27/01</i></p>

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): **09/679,686** B. Patent No.(s):

Docket No.: **BB-1160 US NA**

Additional numbers attached: Yes No

<p>6. Correspondent Name & Address:</p> <p>THOMAS M. RIZZO E. I. DU PONT DE NEMOURS AND COMPANY LEGAL-PATENTS 1007 MARKET STREET WILMINGTON, DELAWARE 19898</p>	<p>7. Total number of applications and patents involved: <u>1</u></p> <p>8. Total fee (37 CFR 3.41) <u>\$40.00</u></p> <p><input type="checkbox"/> Enclosed (Check No.: _____) <input checked="" type="checkbox"/> Authorized to be charged to deposit account</p> <p>9. Deposit account number: <u>04-1928</u> (Attach duplicate copy of this page if paying by deposit account)</p>
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10. Statement and signature.
 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 6/21/2001
 SENIOR LEGAL CLERK Signature Date

Total number of pages comprising cover sheet: 1

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ASSIGNMENT

We, the undersigned
**STEPHEN M. ALLEN, JONATHAN E. LIGHTNER, J. ANTONI RAFALSKI and
CATHERINE J. THORPE**

Hereby declare that

We are the true and first inventors of an invention entitled

HEXOSE CARRIER PROTEINS

and which is disclosed in United States Patent Application No. **09/679,686** filed on **10/05/2000** (and which is identified as Case Number **BB1160 US NA**).

For valuable consideration, the receipt and adequacy of which is hereby acknowledged and in fulfillment of our pre-existing obligation of assignment, we hereby:

I. 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, (A) the sole and entire right, title, and interest in and to: (1) the aforesaid application for Letters Patent, (2) any priority rights derived from the aforesaid application for Letters Patent by virtue of the International Convention for the Protection of Industrial Property and any other treaty or understanding for intellectual property for any and all member countries of the aforesaid International Convention or other treaty or understanding, (3) any and all our inventions, whether joint or sole, disclosed in the aforesaid application for Letters Patent, (4) any and all applications for Letters Patent for any such inventions in any country whatsoever, (5) any and all patents for any such inventions in any country whatsoever; and (B) the sole right to (1) file such applications in its name or ours, (2) to file such applications under the aforesaid International Convention or other treaty or understanding, (3) have said patents granted in its name or ours, and (4) enforce said patents and to sue for and recover profits and damages for any and all infringements thereof whether past or future; and

II. Agree, whenever requested, to communicate to said assignee, its successors, assigns, and legal representatives, any facts known to us respecting said rights, to testify in any legal proceeding respecting said rights, 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.

 (L.S.)
STEPHEN M. ALLEN

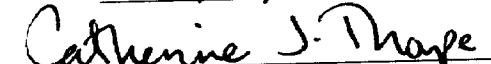
DATE: March 12, 2001

 (L.S.)
J. ANTONI RAFALSKI

DATE: March 12, 2001

 (L.S.)
JONATHAN E. LIGHTNER

DATE: 2/7/01

 (L.S.)
CATHERINE J. THORPE

DATE: March 5th 2001