

**PATENT ASSIGNMENT**

Electronic Version v1.1  
 Stylesheet Version v1.1

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT														
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT														
<b>CONVEYING PARTY DATA</b>															
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:70%;">Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Shawn DeFrees</td> <td>07/09/2007</td> </tr> <tr> <td>David A Zopf</td> <td>07/06/2007</td> </tr> <tr> <td>Robert J. Bayer</td> <td>07/12/2007</td> </tr> <tr> <td>Caryn Bowe</td> <td>07/12/2007</td> </tr> <tr> <td>David James Hakes</td> <td>07/06/2007</td> </tr> <tr> <td>Xi Chen</td> <td>07/13/2007</td> </tr> </tbody> </table>		Name	Execution Date	Shawn DeFrees	07/09/2007	David A Zopf	07/06/2007	Robert J. Bayer	07/12/2007	Caryn Bowe	07/12/2007	David James Hakes	07/06/2007	Xi Chen	07/13/2007
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David James Hakes	07/06/2007														
Xi Chen	07/13/2007														
<b>RECEIVING PARTY DATA</b>															
<b>Name:</b>	Neose Technologies, Inc.														
<b>Street Address:</b>	102 Rock Road														
<b>City:</b>	Horsham														
<b>State/Country:</b>	PENNSYLVANIA														
<b>Postal Code:</b>	19044														
<b>PROPERTY NUMBERS Total: 1</b>															
<table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="width:30%;">Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>11701949</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	11701949										
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Application Number:	11701949														
<b>CORRESPONDENCE DATA</b>															
<b>Fax Number:</b>	(650)843-4001														
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>															
<b>Phone:</b>	415-442-1000														
<b>Email:</b>	crubalcaba-rivera@morganlewis.com														
<b>Correspondent Name:</b>	Morgan Lewis & Bockius LLP														
<b>Address Line 1:</b>	2 Palo Alto Square														
<b>Address Line 2:</b>	3000 El Camino Real, Suite 700														
<b>Address Line 4:</b>	Palo Alto, CALIFORNIA 94306														
<b>ATTORNEY DOCKET NUMBER:</b>	40853-01-5083-US3														

**CH \$40.00 11701949**

NAME OF SUBMITTER:

Jeffry S. Mann

Total Attachments: 8

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Form PTO-1595

(Rev. 10-02)

OMB No. 0651-0027 (exp. 5/31/2002)

Recordation Form Cover Sheet

PATENTS ONLY

U.S. Department of Commerce  
U.S. Patent and Trademark Office

Tab settings ⇨⇨⇨ ▼

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

1. Name of conveying party(ies):

- 1. Shawn DeFrees
- 2. David A. Zopf

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

3. Nature of conveyance:

- Assignment  Merger
- Security Agreement  Change of Name
- Other:

Execution Dates: 07/09/07, 07/06/07, 07/12/07, 07/12/07, 07/06/07 and 07/13/07, respectively

2. Name and address of receiving party(ies)

Name: Neose Technologies, Inc.

Street Address: 102 Rock Road

City: Horsham State: PA ZIP: 19044

Additional name(s) and address(es) attached?  Yes  No

4. 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): 11/701,949

B. Patent No(s):

Additional numbers attached?  Yes  No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Jeffry S. Mann, Ph.D.  
 Morgan, Lewis & Bockius LLP  
 Two Palo Alto Square  
 3000 El Camino Real, Ste. 700  
 Palo Alto, CA 94306  
 Tel. (415) 442-1000  
 Direct Dial: (415) 442-1119  
 eFAX: (650) 843-4001  
 e-mail: jmann@morganlewis.com

6. Total number of applications and patents involved 1

7. Total fee (37 CFR 3.41): \_\_\_\_\_\$40.00

Enclosed

Authorized to be charged to deposit account

8. Deposit account number: 50-0310

(Attach duplicate copy of this page if paying by deposit account)

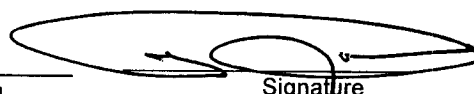
DO NOT USE THIS SPACE

9. 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.

Jeffry S. Mann, Ph.D.

Name of Person Signing  
Atty. Reg. No. 42,837



Signature

September 6, 2007  
Date

Total number of pages including cover sheet, attachments and documents: 7

Mail documents to be recorded with required cover sheet information to:

Mail Stop Assignment Recordation Services  
 Director of the U.S. Patent and Trademark Office  
 P.O. Box 1450  
 Alexandria, VA 22313-1450

**1. Additional name(s) of conveying party(ies):  
(Continued from Page 1)**

- 3. Robert J. Bayer
- 4. Caryn Bowe
- 5. David James Hakes
- 6. Xi Chen

**2. Additional name(s) and address(es) of receiving party(ies):  
(Continued from Page 1)**

**3. Additional application number(s) or patent number(s):  
(Continued from Page 1)**

A. Patent Application No.(s)

B. Patent No.(s)

**ASSIGNMENT OF PATENT APPLICATION**

JOINT

WHEREAS, Shawn DeFrees, 126 Filly Drive, North Wales, PA 19454, David A. Zopf, 560 Beechtree Lane, Wayne, PA 19087, Robert J. Bayer, 6105 Dirac Street, San Diego, California 92122, David James Hakes, 14 Fern Avenue, Willow Grove, PA 19090, Caryn Bowe, 310 Maple Avenue, Doylestown, Pennsylvania 18901, and Xi Chen, 997 Hunter Lane Woodland CA 95776 hereinafter referred to as "Assignors," are the inventors of the invention described and set forth in the below-identified patent application:

Title of Invention:	<b>ERYTHROPOIETIN: REMODELING AND GLYCOCONJUGATION OF ERYTHROPOIETIN</b>
Filing Date:	February 2, 2007
Application No.:	11/701,949 and

WHEREAS, Neose Technologies, Inc., located at 102 Rock Road, Horsham, PA 19044, hereinafter referred to as "ASSIGNEE," is desirous of acquiring an interest in the invention and application and in any U.S. Letters Patent and Registrations which may be granted on any patent application claiming priority from the same;

For good and valuable consideration, receipt of which is hereby acknowledged by Assignors, Assignors have assigned, and by these presents does assign to Assignee all right, title and interest in and to the invention and application and to all foreign counterparts (including patent, utility model and industrial designs), and in and to any Letters Patent and Registrations which may hereafter be granted on any patent application claiming priority from the same in the United States and all countries throughout the world, and to claim the priority from the application as provided by the Paris Convention. The right, title and interest is to be held and enjoyed by Assignee and Assignee's successors and assigns as fully and exclusively as it would have been held and enjoyed by Assignors had this Assignment not been made, for the full term of any Letters Patent and Registrations which may be granted thereon, or of any division, renewal, continuation in whole or in part, substitution, conversion, reissue, prolongation or extension thereof.

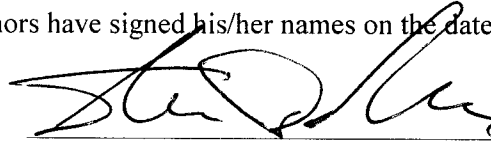
Assignors further agree that Assignors will, without charge to Assignee, but at Assignee's expense, (a) cooperate with Assignee in the prosecution of U.S. Patent applications and foreign counterparts on the invention and any improvements, (b) execute, verify, acknowledge and deliver all such further papers, including applications and instruments of transfer, and (c) perform such other acts as Assignee lawfully may request to obtain or maintain Letters Patent and Registrations for the invention and improvements in any and all countries, and to vest title thereto in Assignee, or Assignee's successors and assigns.

Assignors hereby authorize and request Morgan, Lewis & Bockius LLP, One Market, Spear Street Tower, San Francisco, CA 94105, to insert herein above the application number and filing date of said application when known.

Assignment  
Attorney Docket No.: 040853-01-5083-US03  
Page 2

IN TESTIMONY WHEREOF, Assignors have signed his/her names on the dates indicated.

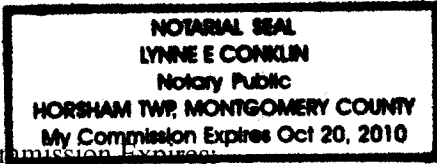
Dated: 7/9/2007

  
SHAWN DEFREES

STATE OF PENNSYLVANIA )  
 ) ss.  
COUNTY OF MONTGOMERY )

On 7/9/07, before me, LYNNE E. CONKLIN personally appeared Shawn DeFrees, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument, and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.



  
NOTARY PUBLIC

My Commission Expires: \_\_\_\_\_

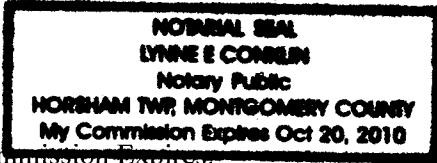
Dated: 6 July, 2007

  
DAVID A. ZOPF

STATE OF PENNSYLVANIA )  
 ) ss.  
COUNTY OF Montgomery )

On 7/6/07, before me, LYNNE E. CONKLIN personally appeared David A. Zopf, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument, and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.



  
NOTARY PUBLIC

My Commission Expires: \_\_\_\_\_

Assignment  
Attorney Docket No.: 040853-01-5083-US03  
Page 3

Dated: July 12, 2007

Robert J Bayer  
ROBERT J. BAYER

STATE OF CALIFORNIA        )  
  ) ss.  
COUNTY OF                    )

On \_\_\_\_\_, before me, \_\_\_\_\_ personally appeared Robert J. Bayer, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument, and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

\_\_\_\_\_  
NOTARY PUBLIC

My Commission Expires: \_\_\_\_\_

Dated: \_\_\_\_\_

\_\_\_\_\_  
CARYN BOWE

STATE OF PENNSYLVANIA    )  
  ) ss.  
COUNTY OF                    )

On \_\_\_\_\_, before me, \_\_\_\_\_ personally appeared Caryn Bowe, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument, and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

\_\_\_\_\_  
NOTARY PUBLIC

My Commission Expires: \_\_\_\_\_

Assignment  
Attorney Docket No.: 040853-01-5083-US03  
Page 3

Dated: \_\_\_\_\_

\_\_\_\_\_  
ROBERT J. BAYER

STATE OF CALIFORNIA        )  
  ) ss.  
COUNTY OF                    )

On \_\_\_\_\_, before me, \_\_\_\_\_ personally appeared Robert J. Bayer, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument, and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

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NOTARY PUBLIC

My Commission Expires: \_\_\_\_\_

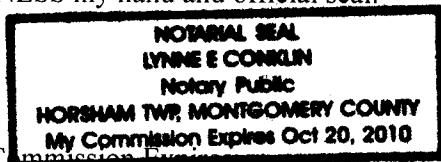
Dated: 7/12/07

Caryn Jay Bowe  
\_\_\_\_\_  
CARYN BOWE

STATE OF PENNSYLVANIA    )  
  ) ss.  
COUNTY OF Montgomery    )

On 7/12/07, before me, Lynne E. Conklin personally appeared Caryn Bowe, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument, and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.



Lynne E. Conklin  
\_\_\_\_\_  
NOTARY PUBLIC

My Commission Expires: \_\_\_\_\_



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Attorney Docket No.: 040853-01-5083-US03  
Page 4

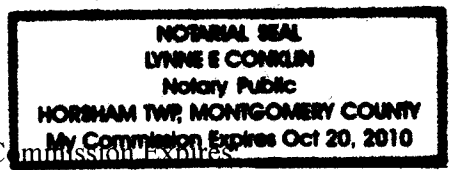
Dated: 06-July, 2007

David James Hakes  
DAVID JAMES HAKES

STATE OF PENNSYLVANIA     )  
  ) ss.  
COUNTY OF Montgomery     )

On 7/6/07, before me, Lynne E. Conklin personally appeared David James Hakes, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument, and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.



Lynne E. Conklin  
NOTARY PUBLIC

My Commission Expires \_\_\_\_\_

Dated: \_\_\_\_\_

\_\_\_\_\_  
XI CHEN

STATE OF CALIFORNIA     )  
  ) ss.  
COUNTY OF                         )

On \_\_\_\_\_, before me, \_\_\_\_\_ personally appeared Xi Chen, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument, and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

\_\_\_\_\_  
NOTARY PUBLIC

My Commission Expires: \_\_\_\_\_

Assignment  
Attorney Docket No.: 040853-01-5083-US03  
Page 4

Dated: \_\_\_\_\_

\_\_\_\_\_  
DAVID JAMES HAKES

STATE OF PENNSYLVANIA     )  
  ) ss.  
COUNTY OF                     )

On \_\_\_\_\_, before me, \_\_\_\_\_ personally appeared David James Hakes, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument, and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

\_\_\_\_\_  
NOTARY PUBLIC

My Commission Expires: \_\_\_\_\_

Dated: July 13, 2007

Chen Xi  
\_\_\_\_\_  
XI CHEN

STATE OF CALIFORNIA     )  
  ) ss.  
COUNTY OF                     )

On \_\_\_\_\_, before me, \_\_\_\_\_ personally appeared Xi Chen, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument, and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

\_\_\_\_\_  
NOTARY PUBLIC

My Commission Expires: \_\_\_\_\_