

Form PTO-1595 (Rev. 01-09)
OMB No. 0651-0027 (exp. 02/28/2009)

03-23-2009

U.S. DEPARTMENT OF COMMERCE
United States Patent and Trademark Office



ET

103553412

To the Director of the U.S. Patent and Trademark Office: Please record the attached documents or the new address(es) below.

1. Name of conveying party(ies)

Neose Technologies, Inc.

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No**3. Nature of conveyance/Execution Date(s):**

Execution Date(s) January 27, 2009

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Joint Research Agreement
☐ Government Interest Assignment
☐ Executive Order 8424, Confirmatory License
☐ Other

2. Name and address of receiving party(ies)

Name: Novo Nordisk A/S

Internal Address:

Street Address: Novo Allé

City: 2880 Bagsvaerd

State:

Country: DENMARK

Zip:

Additional name(s) & address(es) attached? ☐ Yes ☒ No**4. Application or patent number(s):**☐ This document is being filed together with a new application.

A. Patent Application No.(s)

10/492,261
11/982,444
10/411,012
10/552,896

B. Patent No.(s)

Additional numbers attached? ☒ Yes ☐ No**5. Name and address to whom correspondence concerning document should be mailed:**

Name: Jeffry S. Mann, Ph.D.

Internal Address: Morgan, Lewis & Bockius, LLP

Street Address: One Market, Spear Street Tower

City: San Francisco

State: CA Zip: 94105

Phone Number: 415.442.1000

Fax Number: 415.442.1001

Email Address: jmann@morganlewis.com

6. Total number of applications and patents involved: 91

7. Total fee (37 CFR 1.21(h) & 3.41) \$3,640

- ☒ Authorized to be charged to deposit account
☐ Enclosed
☐ None required (government interest not affecting title)

8. Payment Information

Deposit Account Number 50-0310

Authorized User Name Jeffry S. Mann, Ph.D.

9. Signature:

Signature

February 23, 2009

Date

Jeffry S. Mann, Ph.D.
Name of Person Signing

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

10

Documents to be recorded (including cover sheet) should be faxed to (671) 273-0140, or mailed to:
Mail Stop Assignment Recordation Services, Director of the USPTO, P.O. Box 1460, Alexandria, V.A. 22313-1460

Additional application number(s) or patent number(s):
(Continued from Page 1, Item 4)**A. Patent Application No.(s)****B. Patent No.(s)**

11/657,441
10/287,994
11/183,205
10/411,026
10/410,962
11/652,467
10/411,049
10/410,930
10/410,897
10/410,997
11/645,839
10/411,044
10/410,980
12/101,389
10/411,043
10/410,913
11/714,874
10/411,037
11/584,743
10/410,945
10/530,972
11/701,949
10/556,094
09/855,320
10/497,283
10/497,284
10/549,528
10/565,331
10/549,445
11/033,365
10/585,385
11/843,588
10/997,405
11/144,223
10/579,621
11/981,483
11/982,273
10/576,506
12/184,956
11/166,404
10/579,620
11/794,560
10/581,538
10/586,166
11/794,555
11/792,610
11/632,005
11/659,942

DB2/21017145.1

11/665,908
12/092,563
PCT/US06/43048
11/396,215
PCT/US06/12013
11/440,839
11/914,104
11/402,105
11/910,958
11/915,239
11/580,669
PCT/US06/32649
12/152,587
11/781,885
11/781,888
11/781,896
11/781,900
11/781,902
PCT/US07/74139
11/866,969
11/934,700
PCT/US07/80353
PCT/US07/83538
11/867,553
PCT/US07/80471
PCT/US08/65825
PCT/US09/30503
PCT/US08/66749
61/032,006
61/043,354
61/058,869
61/033,616
61/082,472
11/404,266
11/656,643
11/644,014
12/064,012
08/102,385
08/446,875

NOVO

Attorney Docket No.: 40853-01-5000

ASSIGNMENT OF PATENT APPLICATIONS

WHEREAS, Neose Technologies, Inc. of 102 Rock Road, Horsham, Pennsylvania, 19044, United States, hereinafter referred to as "Assignor," is the owner of the invention described and set forth in the below-identified patent application:

Application No.: 10/492,261; Filed: April 9, 2004 (5050-US);
Application No.: 11/982,444; Filed: October 31, 2007 (5050-US1);
Application No.: 10/411,012; Filed: April 9, 2003 (5051-US);
Application No.: 10/552,896; Filed: June 8, 2006 (5051-US1);
Application No.: 11/657,441; Filed: January 24, 2007 (5051-US2);
Application No.: 10/287,994; Filed: November 5, 2002 (5052-US);
Application No.: 11/183,205; Filed: July 15, 2005 (5052-US1);
Application No.: 10/411,026; Filed: April 9, 2003 (5053-US);
Application No.: 10/410,962; Filed: April 9, 2003 (5054-US);
Application No.: 11/652,467; Filed: January 11, 2007 (5054-US1)
Application No.: 10/411,049; Filed: April 9, 2003 (5055-US);
Application No.: 10/410,930; Filed: April 9, 2003 (5056-US);
Application No.: 10/410,897; Filed: April 9, 2003 (5058-US);
Application No.: 10/410,997; Filed: April 9, 2003 (5059-US);
Application No.: 11/645,839; Filed: December 26, 2006 (5059-US01);
Application No.: 10/411,044; Filed: April 9, 2003 (5064-US);
Application No.: 10/410,980; Filed: April 9, 2003 (5066-US);
Application No.: 12/101,389; Filed: April 11, 2008 (5066-US1);
Application No.: 10/411,043; Filed: April 9, 2003 (5075-US);
Application No.: 10/410,913; Filed: April 9, 2003 (5081-US);
Application No.: 11/714,874; Filed: March 5, 2007 (5081-US1);

DB2/20887112.1

Assignment
Page 2

Application No.: 10/411,037; Filed: April 9, 2003 (5082-US);
Application No.: 11/584,743; Filed: October 19, 2006 (5082-US1);
Application No.: 10/410,945; Filed: April 9, 2003 (5083-US);
Application No.: 10/530,972; Filed: December 5, 2005 (5083-US1);
Application No.: 11/701,949; Filed: February 2, 2007 (5083-US3);
Application No.: 10/556,094; Filed: April 16, 2007 (5101-US);
Application No.: 09/855,320; Filed: May 14, 2001 (5108-US);
Application No.: 10/497,283; Filed: November 5, 2004; (5112-US);
Application No.: 10/497,284; Filed: May 28, 2004 (5115-US);
Application No.: 10/549,528; Filed: September 19, 2005 (5126-US);
Application No.: 10/565,331; Filed: September 11, 2006 (5128-US);
Application No.: 10/549,445; Filed: July 31, 2006 (5133-US);
Application No.: 11/033,365; Filed: January 10, 2005 (5138-US);
Application No.: 10/585,385; Filed: July 6, 2006 (5138-US1);
Application No.: 11/843,588; Filed: August 22, 2007 (5138-US2);
Application No.: 10/997,405; Filed: November 24, 2004 (5142-US);
Application No.: 11/144,223; Filed: June 2, 2005 (5142-US1);
Application No.: 10/579,621; Filed: February 21, 2007 (5142-US2);
Application No.: 11/981,483; Filed: October 31, 2007 (5142-US3);
Application No.: 11/982,273; Filed: October 31, 2007 (5142-US4);
Application No.: 10/576,506; Filed: June 3, 2006 (5144-US1);
Application No.: 12/184,956; Filed: August 1, 2008 (5144-US2);
Application No.: 11/166,404; Filed: November 2, 2005 (5145-US);
Application No.: 10/579,620; Filed: April 19, 2007 (5145-US1);
Application No.: 11/794,560; Filed: June 29, 2007 (5145-US2);
Application No.: 10/581,538; Filed: April 12, 2007 (5146-US);

DB2/20887112.1

Assignment
Page 3

Application No.: 10/586,166; Filed: July 23, 2008 (5147-US);
Application No.: 11/794,555; Filed: June 29, 2007 (5150-US);
Application No.: 11/792,610; Filed: June 7, 2007 (5153-US);
Application No.: 11/632,005; Filed: April 14, 2008 (5156-US);
Application No.: 11/659,942; Filed: May 5, 2008 (5161-US);
Application No.: 11/665,908; Filed: November 26, 2007 (5163-US);
Application No.: 12/092,563; Filed: May 2, 2008 (5164-US);
Application No.: PCT/US06/43048; Filed: November 3, 2006 (5164-WO);
Application No.: 11/396,215; Filed: March 30, 2006 (5168-US);
Application No.: PCT/US06/12013; Filed: March 30, 2006 (5168-WO);
Application No.: 11/440,839; Filed: May 25, 2006 (5170-US);
Application No.: 11/914,104; Filed: June 20, 2008 (5170-US1);
Application No.: 11/402,105; Filed: April 10, 2006 (5171-US);
Application No.: 11/910,958; Filed: October 8, 2007 (5171-US1);
Application No.: 11/915,239; Filed: May 21, 2008 (5173-US);
Application No.: 11/580,669; Filed: October 13, 2006 (5175-US);
Application No.: PCT/US06/32649; Filed: August 21, 2006 (5175-WO);
Application No.: 12/152,587; Filed: May 14, 2008 (5179-US);
Application No.: 11/781,885; Filed: July 23, 2007 (5181-US);
Application No.: 11/781,888; Filed: July 23, 2007 (5181-US1);
Application No.: 11/781,896; Filed: July 23, 2007 (5181-US2);
Application No.: 11/781,900; Filed: July 23, 2007 (5181-US3);
Application No.: 11/781,902; Filed: July 23, 2007 (5181-US4);
Application No.: PCT/US07/74139; Filed: July 23, 2007 (5181-WO);
Application No.: 11/866,969; Filed: October 3, 2007 (5183-US);
Application No.: 11/934,700; Filed: November 2, 2007 (5183-US1);

DB2/20887112.1

Assignment
Page 4

Application No.: PCT/US07/80353; Filed: October 3, 2007 (5183-WO);
Application No.: PCT/US07/83538; Filed: November 2, 2007 (5183-WO01);
Application No.: 11/867,553; Filed: October 4, 2007 (5184-US);
Application No.: PCT/US07/80471; Filed: October 4, 2007 (5184-WO);
Application No.: PCT/US2008/065825; Filed: June 4, 2008 (5185-WO);
Application No.: PCT/US2009/030503; Filed: January 8, 2009 (5587-WO);
Application No.: PCT/US2008/066749; Filed: June 12, 2008 (5189-WO);
Application No.: 61/032,006; Filed: February 27, 2008 (5191-P6);
Application No.: 61/043,354; Filed: April 8, 2008 (5191-P7);
Application No.: 61/058,869; Filed: June 4, 2008 (5191-P8);
Application No.: 61/033,616; Filed: March 4, 2008 (5194-PR);
Application No.: 61/082,472; Filed: July 21, 2008 (5195-PR).
Application No.: 11/404,266; Filed: April 12, 2006 (5552-US);
Application No.: 11/656,643; Filed: January 23, 2007 (5558-US);
Application No.: 11/644,014; Filed: December 21, 2006 (5559-US);
Application No.: 12/064,012; Filed: February 15, 2008 (5575-US);
Application No.: 08/102,385; Filed: August 4, 1993 (61818-5033-US02); and
Application No.: 08/446,875; Filed: July 27, 1994 (61818-5033-US03).

WHEREAS, Novo Nordisk A/S, located at Novo Allé, 2880 Bagsvaerd, Denmark, 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 Assignor, Assignor has assigned, and by these presents does assign to Assignee all right, title and interest in and to the invention and application (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 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 Assignor had this Assignment not been made, for the full term of any Letters Patent and Registrations which may be

DB2/20887112.1

Assignment
Page 5

granted thereon, or of any division, renewal, continuation in whole or in part, substitution, conversion, reissue, prolongation or extension thereof.

Assignor further agrees that Assignor 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.

Assignor hereby authorizes and requests 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.

DB2/20887112.1

Assignment
Page 6

IN TESTIMONY WHEREOF, Assignor has signed his/her name on the date indicated.

NEOSE TECHNOLOGIES, INC.

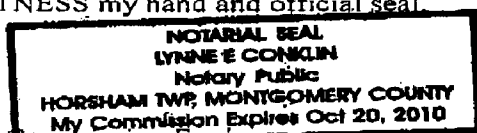
Dated: 1/27/09

George J. Vergis
GEORGE J. VERGIS, Ph.D.
Vice President and Chief Executive Officer

STATE OF PENNSYLVANIA)
) ss.
COUNTY OF MONTGOMERY)

On 1/27/09, before me, Lynne E Conklin personally appeared GEORGE J. VERGIS, Ph.D., 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.



My Commission Expires

Lynne E. Conklin
NOTARY PUBLIC

DB2/20887112.1

PATENT

RECORDED: 02/23/2009

REEL: 022441 FRAME: 0945