

Date of Deposit: July 8, 2004

Attorney Docket Number: 28195-517 CIP2

07-14-2004

FORM PTO-1595

(Rev. 6-93)

OMB No. 0651-0011 (exp. 4/94)

U.S. DEPARTMENT OF COMMERCE
Patent and Trademark Office

102790079

Please record the attached original document(s) and all copies thereof.

1. Name of conveying party(ies):

Execution Date

2. Name and address of receiving party(ies)

Joseph Bonaventura

May 22, 2002

Name:

Jonathan S. Stamler

May 17, 2002

Duke University

John R. Pawloski

May 17, 2002

Erwin Road

Timothy J. McMahon

May 17, 2002

Durham, North Carolina 27710

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ NoAdditional name(s) & address(es) attached? ☐ Yes ☒ No

3. Nature of conveyance:

☒ Assignment☐ Merger☐ Security Agreement☐ Change of Name☐ Other Change of address of the Assignee

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):

B. Patent No(s):

10/045,603Additional numbers attached? ☐ Yes ☒ No5. Name and address of party to whom correspondence
Concerning document should be mailed:Name: Ivor R. Elrifi, Esq.
Address: MINTZ, LEVIN, COHN, FERRIS, et al.
Customer Number: 35437
666 Third Avenue-24th Floor
New York, New York 10017
Telephone: (212) 935-3000
Telefax: (212) 983-3115

6. Total number of applications and patents involved: [1]

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

☒ Enclosed☒ The Commissioner is authorized to charge Deposit Account No: 50-0311,
Reference No. 28195-517 CIP2 for any deficiencies.

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.

Flora W. Feng, Reg. No. 51,673

Name of Person Signing

Signature

July 8, 2004

Date

Total number of pages including cover sheet, attachments, and document: (11)

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

MAIL STOP ASSIGNMENT RECORDATION SERVICES
Director of the United States Patent and Trademark Office
P. O. Box 1450
Alexandria, VA 22313-1450

07/13/2004 NSETACIE 00000021 10045603

01 FC:0021

40.00 EP

JointASSIGNMENT

WHEREAS, we, **Jonathan S. Stamler, Joseph Bonaventura, John R. Pawloski and Timothy J. McMahon**, have invented a certain improvement in **Red Blood Cells Loaded with S-Nitrosothiol and Uses Therefor** described in an application for Letters Patent of the United States, the specification of which:

- ☐ is being executed on even date herewith and is about to be filed in the United States Patent Office;
- ☒ was filed on **October 23, 2001** as Application No. **10/045,603**;
- ☐ was patented under U.S. Patent No. ☐ on ☐.

WHEREAS, **Duke University** (hereinafter "ASSIGNEE"), a corporation organized and existing under the laws of the **State of North Carolina**, and having a usual place of business at **Erwin Road, Durham, North Carolina 27710** desires to acquire an interest therein in accordance with agreements duly entered into with us;

NOW, THEREFORE, to all whom it may concern be it known that for and in consideration of said agreements and of other good and valuable consideration, the receipt of which is hereby acknowledged, we have sold, assigned and transferred and by these presents do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns and legal representatives, the entire right, title and interest in and throughout the United States of America, its territories and all foreign countries, in and to said invention as described in said application, together with the entire right, title and interest in and to said application and such Letters Patent as may issue thereon; said invention, application and Letters Patent to be held and enjoyed by said ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held by us had this assignment and sale not been made; we hereby convey all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property by filing any such applications for Letters Patent. We hereby acknowledge that this assignment, being of the entire right, title and interest in and to said invention, carries with it the right in ASSIGNEE to apply for and obtain from competent authorities in all countries of the world any and all Letters Patent by attorneys and agents of ASSIGNEE's selection and the right to procure the grant of all such Letters Patent to ASSIGNEE for its own name as assignee of the entire right, title and interest therein;

AND, we hereby further agree for ourselves and our executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts which may be deemed necessary to secure fully the aforesaid invention to said ASSIGNEE, its successors, assigns and legal representatives, but at its or their expense and charges, including the execution of applications for patents in foreign countries, and the execution of substitution, reissue, divisional or continuation applications and preliminary or other statements and the giving of testimony in any interference or other proceeding in which said invention or any application or patent directed thereto may be involved;

AND, we do hereby authorize and request the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said application or applications based thereon to said ASSIGNEE, its successors, assigns, and legal representatives.

IN TESTIMONY WHEREOF, we have hereunto set our hands and affixed our seals the date set forth below.

Inventor's Signature: _____

Jonathan S. Stamler

for myself and as an agent of Howard Hughes Medical Institute

State/Commonwealth

of _____

County of _____

Then personally appeared before me the above-named **Jonathan S. Stamler** and acknowledged that he executed the foregoing instrument as his free act and deed this _____ day of _____, 2002.

(SEAL)

Notary Public

(print name)

My Commission expires ____/____/____

Inventor's Signature: _____

Joseph Bonaventura
Joseph Bonaventura

State/Commonwealth

of

North Carolina

County of

Certified

22 May 2002

Then personally appeared before me the above-named **Joseph Bonaventura** and acknowledged that he executed the foregoing instrument as his free act and deed this

22nd day of May, 2002.

(SEAL)

Wayne M. Lynch

Notary Public

Wayne M. Lynch

(print name)

My Commission expires

04/11/05

Inventor's Signature: _____

John R. Pawloski

State/Commonwealth

of _____

County of _____

Then personally appeared before me the above-named **John R. Pawloski** and acknowledged that he executed the foregoing instrument as his free act and deed this _____ day of _____, 2002.

(SEAL)

Notary Public

(print name)

My Commission expires

____/____/____

PATENT

REEL: 015550 FRAME: 0714

Inventor's Signature: _____

Timothy J. McMahon

State/Commonwealth

of _____

County of _____

Then personally appeared before me the above-named **Timothy J. McMahon** and
acknowledged that he executed the foregoing instrument as his free act and deed this
_____ day of _____ 2002.

(SEAL)

Notary Public

(print name)

My Commission expires ____/____/____

::ODMA\MHODMA\Manage;291679;1

JointASSIGNMENT

WHEREAS, we, **Jonathan S. Stamler, Joseph Bonaventura, John R. Pawloski and Timothy J. McMahon**, have invented a certain improvement in **Red Blood Cells Loaded with S-Nitrosothiol and Uses Therefor** described in an application for Letters Patent of the United States, the specification of which:

[] is being executed on even date herewith and is about to be filed in the United States Patent Office;

[X] was filed on **October 23, 2001** as Application No. **10/045,603**;

[] was patented under U.S. Patent No. [] on [].

WHEREAS, **Duke University** (hereinafter "ASSIGNEE"), a corporation organized and existing under the laws of the **State of North Carolina**, and having a usual place of business at **Erwin Road, Durham, North Carolina 27710** desires to acquire an interest therein in accordance with agreements duly entered into with us;

NOW, THEREFORE, to all whom it may concern be it known that for and in consideration of said agreements and of other good and valuable consideration, the receipt of which is hereby acknowledged, we have sold, assigned and transferred and by these presents do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns and legal representatives, the entire right, title and interest in and throughout the United States of America, its territories and all foreign countries, in and to said invention as described in said application, together with the entire right, title and interest in and to said application and such Letters Patent as may issue thereon; said invention, application and Letters Patent to be held and enjoyed by said ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held by us had this assignment and sale not been made; we hereby convey all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property by filing any such applications for Letters Patent. We hereby acknowledge that this assignment, being of the entire right, title and interest in and to said invention, carries with it the right in ASSIGNEE to apply for and obtain from competent authorities in all countries of the world any and all Letters Patent by attorneys and agents of ASSIGNEE's selection and the right to procure the grant of all such Letters Patent to ASSIGNEE for its own name as assignee of the entire right, title and interest therein;

AND, we hereby further agree for ourselves and our executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts which may be deemed necessary to secure fully the aforesaid invention to said ASSIGNEE, its successors, assigns and legal representatives, but at its or their expense and charges, including the execution of applications for patents in foreign countries, and the execution of substitution, reissue, divisional or continuation applications and preliminary or other statements and the giving of testimony in any interference or other proceeding in which said invention or any application or patent directed thereto may be involved;

PATENT

REEL: 015550 FRAME: 0716

AND, we do hereby authorize and request the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said application or applications based thereon to said ASSIGNEE, its successors, assigns, and legal representatives.

IN TESTIMONY WHEREOF, we have hereunto set our hands and affixed our seals the date set forth below.

Inventor's Signature: Jon S. Stamler

Jonathan S. Stamler

for myself and as an agent of Howard Hughes Medical Institute

State/Commonwealth

of North Carolina

County of Durham

Then personally appeared before me the above-named **Jonathan S. Stamler** and acknowledged that he executed the foregoing instrument as his free act and deed this 17th day of May, 2002.

(SEAL)

Laura Dillon Notary Public

Laura Dillon (print name)

My Commission expires 28th / June / 2006

Inventor's Signature: _____

Joseph Bonaventura

State/Commonwealth

of _____

County of _____

Then personally appeared before me the above-named **Joseph Bonaventura** and acknowledged that he executed the foregoing instrument as his free act and deed this _____ day of _____, 2002.

(SEAL)

Notary Public

(print name)

My Commission expires ____/____/____

Inventor's Signature: _____

John R. Pawloski

State/Commonwealth

of North Carolina

County of Durham

Then personally appeared before me the above-named **John R. Pawloski** and acknowledged that he executed the foregoing instrument as his free act and deed this 17th day of May, 2002.

(SEAL)

Laura Dillon

Notary Public

Laura Dillon

(print name)

My Commission expires 28 / June / 2006

Inventor's Signature: _____

Tim J. McMahon
Timothy J. McMahon

5/17/02

State/Commonwealth _____

of Durham _____

County of North Carolina _____

Then personally appeared before me the above-named **Timothy J. McMahon** and acknowledged that he executed the foregoing instrument as his free act and deed this 17th day of May 2002.

(SEAL)

Laura Dillon

Notary Public

Laura Dillon

(print name)

My Commission expires 28 / June / 2006