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09-28-2000

U.S. Department of Commerce
Patent and Trademark Office

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

1. Name of conveying party(ies):

Richard D. Morgan
Qing Xu

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

2. Name and address of receiving party(ies):

Name: New England Biolabs, Inc.

Internal Address: _____

Street Address: 32 Tozer Road

3. Nature of Conveyances:

☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Other: _____

August 25, 2000
Execution Date: September 11, 2000

City: Beverly State: MA Zip: 01915

Additional name(s) & address(es) attached? Yes

4. Application number(s) or patent number(s):

If this document is being filing together with a new Application, the execution date of the application is: September 28, 1999
November 1, 1999

A. Patent Application No.(s)

09/404,671

Additional numbers attached? No

B. Patent No.(s)

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

Name: Gregory D. Williams
General Counsel
New England Biolabs, Inc.
Street Address: 32 Tozer Road

City: Beverly State: MA Zip: 01915

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: 14-0740

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

09/28/2000 MTHA11 00000382 09404671

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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.

Gregory D. Williams (Reg. No. 30901)

Name of Person Signing

Signature

Date

Total number of pages comprising cover sheet: 2

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

Attachment to Form PTO-1595
Recordation Cover Sheet

Additional Receiving Parties:

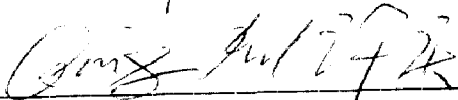
Vanderbilt University
1207 17th Avenue South, Suite 210
Nashville, TN 37212

ASSIGNMENT

I, Qing Xu, for good and valuable consideration from Vanderbilt University, a Tennessee University, having its principal place of business in Nashville, Tennessee, hereinafter called the Assignee, receipt of which is hereby acknowledged, do hereby sell, assign and transfer unto the Assignee, its successors and assigns, the entire right, title, and interest in, to and under an application for Letters Patent of the United States Serial No. 09/404,671, signed by me on uneven date herewith for improvements in **A NOVEL TYPE II RESTRICTION ENDONUCLEASE, *Hpy*CH4IV, OBTAINABLE FROM *HELICOBACTER PYLORI* CH4 AND A PROCESS FOR PRODUCING THE SAME** including all priority rights ensuing therefrom, and the inventions and any of them therein set forth and described, and any and all Letters Patent of the United States and of countries foreign thereto which may be granted thereon or therefor, together with the right to apply for such Letters Patent.

And for the above consideration I agree promptly upon request of the Assignee, its successors or assigns, to execute and deliver without further compensation any power of attorney, assignment, application, whether original, divisional, continuation or reissue, or other papers which may be necessary or desirable to secure to the Assignee, said application and all patent rights therein, in the United States and in any country foreign thereto.

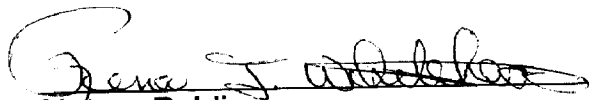
IN WITNESS THEREOF, I, Qing Xu, hereunder set my hand and seal this ____ day of Sept. 11, 2000.



Qing Xu

Commonwealth of Massachusetts
County of SUFFOLK ss.

Before me personally appeared said Qing Xu and acknowledged the foregoing instrument of assignment to be [her] his free act and deed this 11th day of September, 2000.



Notary Public


RENEE J. WHITEHEAD
Notary Public
My Commission Expires Feb. 10, 2006

ASSIGNMENT

I, Richard D. Morgan, for good and valuable consideration from New England Biolabs, Inc., a Massachusetts Corporation, having its principal place of business in Beverly, Massachusetts, hereinafter called the Assignee, receipt of which is hereby acknowledged, do hereby sell, assign and transfer unto the Assignee, its successors and assigns, the entire right, title, and interest in, to and under an application for Letters Patent of the United States Serial No. 09/404,671, signed by me on uneven date herewith for improvements in **A NOVEL TYPE II RESTRICTION ENDONUCLEASE, HpyCH4IV, OBTAINABLE FROM *HELICOBACTER PYLORI* CH4 AND A PROCESS FOR PRODUCING THE SAME** including all priority rights ensuing therefrom, and the inventions and any of them therein set forth and described, and any and all Letters Patent of the United States and of countries foreign thereto which may be granted thereon or therefor, together with the right to apply for such Letters Patent.

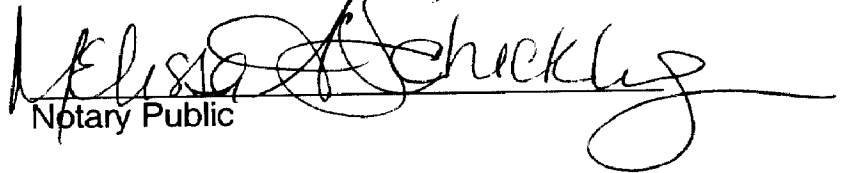
And for the above consideration I agree promptly upon request of the Assignee, its successors or assigns, to execute and deliver without further compensation any power of attorney, assignment, application, whether original, divisional, continuation or reissue, or other papers which may be necessary or desirable to secure to the Assignee, said application and all patent rights therein, in the United States and in any country foreign thereto.

IN WITNESS THEREOF, I, Richard D. Morgan, hereunder set my hand and seal this 25th day of August, 2000.


Richard D. Morgan

Commonwealth (State) of Massachusetts
County of Essex, ss.

Before me personally appeared said Richard D. Morgan and acknowledged the foregoing instrument of assignment to be [her] his free act and deed this 25th day of August, 2000.


Notary Public