504291781 03/27/2017

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
G. BRETT ROBB	03/24/2017
ISAAC B. MEEK	03/24/2017
DIANNE S. SCHWARZ	03/27/2017
EZRA SCHILDKRAUT	03/27/2017

RECEIVING PARTY DATA

Name:	NEW ENGLAND BIOLABS, INC.	
Street Address:	240 COUNTY ROAD	
City:	IPSWICH	
State/Country:	MASSACHUSETTS	
Postal Code:	01938	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15469681

CORRESPONDENCE DATA

Fax Number:

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Phone: 978-380-7373
Email: mcgrane@neb.com
Correspondent Name: HARRIET M. STRIMPEL
Address Line 1: 240 COUNTY ROAD

Address Line 4: IPSWICH, MASSACHUSETTS 01938

ATTORNEY DOCKET NUMBER: NEB-386-US

NAME OF SUBMITTER: HARRIET M. STRIMPEL

SIGNATURE: /Harriet M. Strimpel/

DATE SIGNED: 03/27/2017

Total Attachments: 4 source=Oaths#page1.tif source=Oaths#page2.tif source=Oaths#page3.tif

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PATENT REEL: 042100 FRAME: 0063 Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid CMIB control number.

DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76) AND ASSIGNMENT FOR SINGLE ASSIGNEE Title of COMPOSITIONS AND METHODS RELATING TO SYNTHETIC RNA POLYNUCLEOTIDES CREATED FROM SYNTHETIC DNA OLIGONUCLEOTIDES As the below named inventor, I hereby declare that: This declaration X The attached application, or

The above-identified application was made or authorized to be made by me.

is directed to:

I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.

United States application or PCT international application number

Whereas, New England Biolabs, Inc., a Corporation organized under and pursuant to the laws of Massachusetts having its principal place of business at 240 County Road, Ipswich, Massachusetts 01938 (hereinafter referred to as "Assignee") is desirous of acquiring the entire right, title and interest in and to said inventions and said Application for Letters Patent of the United States, and in and to any Letters Patent of the United States to be obtain therefore and thereon.

Now, therefor, for good and sufficient consideration, the receipt of which is hereby acknowledged, I, by these presents do sell, assign and transfer unto said Assignee the full and exclusive right to the said invention in the United States and the entire rights, title and interest in and to any and all Patents which may be granted therefore in the United States.

I hereby authorize and request the Director of the U.S. Patent and Trademark Office to issue said United States Patent to said Assignee, of the entire right, title, and interest in and to the same, for the sole use and behoof; and for the use and behoof of his legal representatives, to the full end of the term for which said Patent may be granted, as fully and entirely as the same would have been held by me had this assignment and sale not been made.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

LEGAL NA	ME OF INVENTOR	
Inventor:	G. Brett Robb	Date: <u>3/24/24/7</u>
2000		
Signature:		

Note: An application data sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form or must have been previously filed. Use an additional PTO/AIA/01 form for each additional inventor.

PATENT REEL: 042100 FRAME: 0064 Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid CMB control number.

DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76) AND ASSIGMENT FOR SINGLE ASSIGNEE Title of COMPOSITIONS AND METHODS RELATING TO SYNTHETIC RNA POLYNUCLEOTIDES CREATED FROM SYNTHETIC DNA Invention **OUGONUCLEOTIDES** As the below named inventor, I hereby declare that: This declaration | x | The attached application, or is directed to: United States application or PCT international application number The above-identified application was made or authorized to be made by me. I believe that I am the original inventor or an original joint inventor of a claimed invention in the application, Whereas, New England Biolabs, Inc., a Corporation organized under and pursuant to the laws of Massachusetts having its principal place of business at 240 County Road, Ipswich, Massachusetts 01938 (hereinafter referred to as "Assignee") is desirous of acquiring the entire right, title and interest in and to said inventions and said Application for Letters Patent of the United States, and in and to any Letters Patent of the United States to be obtain therefore and thereon. Now, therefore, for good and sufficient consideration, the receipt of which is hereby acknowledged, i, by these presents do sell, assign and transfer unto said Assignee the full and exclusive right to the said invention in the United States and the entire rights, title and interest in and to any and all Patents which may be granted therefore in the United States. I hereby authorize and request the Director of the U.S. Patent and Trademark Office to issue said United States Patent to said Assignee, of the entire right, title, and interest in and to the same, for the sole use and behoof; and for the use and behoof of his legal representatives, to the full end of the term for which said Patent may be granted, as fully and entirely as the same would have been held by me had this assignment and sale not been made. I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both. LEGAL NAME OF INVENTOR inventor: Signature:

Note: An application data sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form or must have been previously filed. Use an additional PTO/AIA/01 form for each additional inventor.

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DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76) AND ASSIGMENT FOR SINGLE ASSIGNEE Title of COMPOSITIONS AND METHODS RELATING TO SYNTHETIC RNA POLYNUCLEOTIDES CREATED FROM SYNTHETIC DNA Invention OLIGONUCLEOTIDES As the below named inventor, I hereby declare that: This declaration |X| The attached application, or is directed to: United States application or PCT international application number The above-identified application was made or authorized to be made by me. I believe that I am the original inventor or an original joint inventor of a claimed invention in the application. Whereas, New England Biolabs, Inc., a Corporation organized under and pursuant to the laws of Massachusetts having its principal place of business at 240 County Road, Ipswich, Massachusetts 01938 (hereinafter referred to as "Assignee") is desirous of acquiring the entire right, title and interest in and to said inventions and said Application for Letters Patent of the United States, and in and to any Letters Patent of the United States to be obtain therefore and thereon. Now, therefor, for good and sufficient consideration, the receipt of which is hereby acknowledged, I, by these presents do sell, assign and transfer unto said Assignee the full and exclusive right to the said invention in the United States and the entire rights, title and interest in and to any and all Patents which may be granted therefore in the United States. I hereby authorize and request the Director of the U.S. Patent and Trademark Office to issue said United States Patent to said Assignee, of the entire right, title, and interest in and to the same, for the sole use and behoof; and for the use and behoof of his legal representatives, to the full end of the term for which said Patent may be granted, as fully and entirely as the same would have been held by me had this assignment and sale not been made. I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both. LEGAL NAME OF INVENTOR Dianne S. Schwarz inventor: Note: An application data sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form or must have been previously filed. Use an additional PTO/AIA/01 form for each additional inventor.

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DECLARATION (37 CFR 1.83) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76) AND ASSIGMENT FOR SINGLE ASSIGNEE Title of COMPOSITIONS AND METHODS RELATING TO SYNTHETIC RNA POLYNUCLEOTIDES CREATED FROM SYNTHETIC DNA Invention OLIGONUCLEOTIDES As the below named inventor, I hereby declare that: This declaration | x | The attached application, or is directed to: United States application or PCT international application number The above-identified application was made or authorized to be made by me. I believe that I am the original inventor or an original joint inventor of a claimed invention in the application. Whereas, New England Biolabs, Inc., a Corporation organized under and pursuant to the laws of Massachusetts having its principal place of business at 240 County Road, Ipswich, Massachusetts 01938 (hereinafter referred to as "Assignee") is desirous of acquiring the entire right, title and interest in and to said inventions and said Application for Letters Patent of the United States, and in and to any Letters Patent of the United States to be obtain therefore and thereon. Now, therefore, for good and sufficient consideration, the receipt of which is hereby acknowledged, I, by these presents do sell, assign and transfer unto said Assignee the full and exclusive right to the said invention in the United States and the entire rights, title and interest in and to any and all Patents which may be granted therefore in the United States. I hereby authorize and request the Director of the U.S. Patent and Trademark Office to issue said United States Patent to said Assignee, of the entire right, title, and interest in and to the same, for the sole use and behoof; and for the use and behoof of his legal representatives, to the full end of the term for which said Patent may be granted, as fully and entirely as the same would have been held by me had this assignment and sale not been made. I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both. LEGAL NAME OF INVENTOR

Note: An application data sheet (PTO/SB/14 or equivalent), including naming the entire inventive entity, must accompany this form or must have been previously filed. Use an additional PTO/AIA/01 form for each additional inventor.

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RECORDED: 03/27/2017