503556281 11/05/2015

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

SUBMISSION TYPE: NEW ASSIGNMENT

EPAS ID: PAT3602908

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
SHUGUANG ZHANG	03/23/2012
ALEXANDER RICH	08/08/2012
KAROLINA CORIN	03/23/2012
LOTTA T. TEGLER	03/23/2012

RECEIVING PARTY DATA

Name:	MASSACHUSETTS INSTITUTE OF TECHNOLOGY	
Street Address:	77 MASSACHUSETTS AVENUE	
City:	CAMBRIDGE	
State/Country:	MASSACHUSETTS	
Postal Code:	02139	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	14105252

CORRESPONDENCE DATA

Fax Number: (617)607-9200

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: 617 449-6500 Email: ylu@mccarter.com

Correspondent Name: YU LU, MCCARTER & ENGLISH, LLP

Address Line 1: 265 FRANKLIN STREET

Address Line 4: BOSTON, MASSACHUSETTS 02110

ATTORNEY DOCKET NUMBER:	122288-08703	
NAME OF SUBMITTER:	YU LU, PH.D, J.D., REG. NO. 50,306	
SIGNATURE:	/Yu Lu/	
DATE SIGNED:	11/05/2015	

Total Attachments: 4

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PATENT 503556281 REEL: 036968 FRAME: 0641

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PATENT REEL: 036968 FRAME: 0642

ASSIGNMENT

FASHICIAWIEN I
WHEREAS, we, Shuguang Zhang, Alexander Rich, Karolina Corin and Lotta T. Tegler have invented a certain improvement in Water Soluble Membrane Proteins and Methods for the Preparation and Use Thereof 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 February 23, 2012 as Application No. 13/403,725; [] was patented under U.S. Patent No. [] on []. WHEREAS, Massachusetts Institute of Technology (hereinafter "ASSIGNEE"), a university organized and existing under the laws of the Commonwealth of Massachusetts, and having a usual place of business at 77 Massachusetts Avenue, Cambridge, Massachusetts 02139 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:
State/Commonwealth of Manachuselts County of Australia 23 day of Manachuselt , 2012, before me, the undersigned notary public, personally appeared Shuguang Zhang proved to me through satisfactory evidence of identification, which were Manachuselt Dray freeze, to be the person whose name is signed on the preceding or attached document, and acknowledged that he/she executed the foregoing instrument as his/her free act and deed. Notary Public (SEAL) My Commission expires // / 29 / /2 from the providence of identification, which were name is signed on the preceding or attached document, and acknowledged that he/she executed the foregoing instrument as his/her free act and deed.

{// - GENERAL --//4041/3017US1/00014256/V1}

Lucia Sander Notary Public Commonwealth of Massachusetta My Commission Expires Nevember 29 2019

<u>ASSIGNMENT</u>
WHEREAS, we, Shuguang Zhang, Alexander Rich, Karolina Corin and Lotta T. Tegler have invented a certain improvement in Water Soluble Membrane Proteins and Methods for the Preparation and Use Thereof 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 February 23, 2012 as Application No. 13/403,725; [] was patented under U.S. Patent No. [] on []. WHEREAS, Massachusetts Institute of Technology (hereinafter "ASSIGNEE"), a university organized and existing under the laws of the Commonwealth of Massachusetts, and having a usual place of business at 77 Massachusetts Avenue, Cambridge, Massachusetts 02139 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 as may issue thereon; said invention, application and Letters Patent 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 acknowledg
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.
all the state of t
Inventor: Vitable July
Alexander Rich State Commonwealth
of Massachusetts
County of Middlesex
On this 8th day of August , 2012, before me, the undersigned notary public,
personally appeared Alexander Rich proved to me through satisfactory evidence of identification, which were
11/1955 RIVES (10611), to be the person whose name is signed on the preceding or attached

1491 (print name)

My Commission expires 03/2/20/5

document, and acknowledged that he/she executed the foregoing instrument as his/her free act and deed.

PATENT REEL: 036968 FRAME: 0644

(SEAL)

ASSIGNMENT

WHEREAS, we, Shuguang Zhang, Alexander Rich, Karolina Corin and Lotta T. Tegler have invented a certain improvement in Water Soluble Membrane Proteins and Methods for the Preparation and Use Thereof 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 February 23, 2012 as Application No. 13/403,725;
- [] was patented under U.S. Patent No. [] on [].

WHEREAS, Massachusetts Institute of Technology (hereinafter "ASSIGNEE"), a university organized and existing under the laws of the Commonwealth of Massachusetts, and having a usual place of business at 77 Massachusetts Avenue, Cambridge, Massachusetts 02139 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:
Karolina Corin
County of

///-- GEMERAL --//4041/3017US1/00014258/v1}

Licia Sander Notary Public Commonwealth of Massachusetts My Commission Expires November 29 2018

ASSIGNMENT

WHEREAS, we, Shuguang Zhang, Alexander Rich, Karolina Corin and Lotta T. Tegler have invented a
certain improvement in Water Soluble Membrane Proteins and Methods for the Preparation and Use Thereof
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 February 23, 2012 as Application No. 13/403,725;
was patented under U.S. Patent No. [] on [].
WHEREAS, Massachusetts Institute of Technology (hereinafter "ASSIGNEE"), a university organized an
existing under the laws of the Commonwealth of Massachusetts, and having a usual place of business at 77

đ Massachusetts Avenue, Cambridge, Massachusetts 82139 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 scals the date set forth below.

Inventor:

Lotta T. Tegler State/Commonwealth Morrand document, and acknowledged that he/she executed/the foregoing instrument as his/her free act and deed. Notary Public LUCIA SANDER (print name) (SEAL) My Commission expires 11 / 29 / 20/ 3

1//-- GENPRAL --//4041/3017US1/00014259/V1}

Quala Sander Notary Public Commonwealth of Massachusetts My Commission Expires November 29 2018

> **PATENT** REEL: 036968 FRAME: 0646