

## PATENT ASSIGNMENT COVER SHEET

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
SOMYA S. SUBRAMANIAN	05/30/2017
NATALIA FRIEDLAND	06/05/2017
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<b>State/Country:</b>	NEW MEXICO
<b>Postal Code:</b>	87544
<b>PROPERTY NUMBERS Total: 2</b>	
<b>Property Type</b>	<b>Number</b>
<b>PCT Number:</b>	US2015041617
<b>Application Number:</b>	15411854
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<b>NAME OF SUBMITTER:</b>	JANEEN VILVEN
<b>SIGNATURE:</b>	/Janeen Vilven/
<b>DATE SIGNED:</b>	11/09/2017
<b>Total Attachments: 5</b>	
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source=41617 and 854 Subramanian to NMC#page2.tif

## ASSIGNMENT OF INVENTION AND PATENT RIGHTS

**Inventors:** Somya S. Subramanian, Natalia Friedland

**Serial No.:** PCT/US2015/041617  
15/411,854

**Filing Date:** July 22, 2015  
January 20, 2017

For valuable consideration received or to be received, and hereby acknowledged, Somya S. Subramanian of Los Alamos, NM, USA; and Natalia Friedland of Los Alamos, NM, USA(hereinafter referred to as "Inventors"), hereby sell, assign and transfer unto NMC, Inc. of 4200 West Jemez Rd., Suite 301, Los Alamos, NM 87544, its successors and assigns (hereinafter referred to as "Assignee"), the entire interest for the United States of America and all foreign countries, including all rights of priority under the international conventions and treaties, in and to a certain invention or improvement known as *Carbon Fixation Systems in Plants and Algae*, and described in an application filed in the United States Patent and Trademark Office on July 22, 2015, as Attorney Docket No. 32887-1003-PCT1, and given International Patent Application No. PCT/US2015/041617; and to a certain invention or improvement known as *Carbon Fixation Systems in Plants and Algae*, and described in an application filed in the United States Patent and Trademark Office on January 20, 2017, as Attorney Docket No. 32887-1003-UT, and given U.S. Patent Application No. 15/411,854, and in all Letters Patent of the United States and all foreign countries which may or shall be granted on said invention, or any parts thereof, or on said application, or on any provisional, utility, divisional, continuing, continuation-in-part, reissue, reexamination or other applications based in whole or in part thereon. And Inventors agree hereafter to execute all applications, amended specifications, deeds or other instruments, and to do all acts necessary or proper in Assignee's sole discretion, to secure to Assignee the grant of Letters Patent in the United States and/or in other countries as Assignee may determine in its sole discretion, with specifications and claims

in such form as shall be approved by Assignee's counsel, and to vest and confirm in Assignee the legal and equitable title and full use and benefit of all such patents.

Inventors further agree with Assignee that this Assignment covers all processes, specifications, procedures, techniques and other knowledge and information now or hereafter known to Inventors which are not in the public domain and which relate to the above-mentioned invention or improvement, its manufacture, uses or embodiments, or other matters (the "Related Know-How"). Inventors agree to disclose or provide all Related Know-How to Assignee when discovered or upon request.

Inventors further covenant that Inventors will promptly provide to Assignee, upon its request, with all pertinent facts and documents relating to said application, said invention and said Letters Patent and legal equivalents in foreign countries as may be known and accessible to Inventors and will testify as to the same in any interference or litigation related thereto and will promptly execute and deliver to Assignee or its legal representative any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof in any foreign country which may be necessary or desirable to carry out the purposes thereof.

Inventors' rights in the above-mentioned invention or improvement and Related Know-How and any patent application(s) and Letters Patent thereon have not been previously assigned, mortgaged or otherwise encumbered, and Inventors have full right, power and authority to assign all such rights to Assignee hereunder.

As used herein, the terms "Inventors" and "Assignee" shall include such parties and their heirs, administrators, estates, successors and assigns of every kind.



**CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT**

**CIVIL CODE § 1189**

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

State of California )

County of Santa Clara )

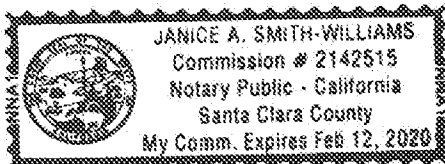
On June 5<sup>th</sup> 2017 before me, Janice A. Smith-Williams, Notary Public ,  
Date Here Insert Name and Title of the Officer

personally appeared Natalia Friedland  
Name(s) of Signer(s)

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.



Signature Janice A. Smith-Williams  
Signature of Notary Public

Place Notary Seal Above

**OPTIONAL**

Though this section is optional, completing this information can deter alteration of the document or fraudulent reattachment of this form to an unintended document.

**Description of Attached Document**

Title or Type of Document: Assignment of Invention & Patent Rights  
Document Date: July 22, 2015 - January 20, 2017 Number of Pages: 3  
Signer(s) Other Than Named Above: 2017

**Capacity(ies) Claimed by Signer(s)**

Signer's Name: \_\_\_\_\_  
☐ Corporate Officer — Title(s): \_\_\_\_\_  
☐ Partner — ☐ Limited ☐ General  
☐ Individual ☐ Attorney in Fact  
☐ Trustee ☐ Guardian or Conservator  
☐ Other: \_\_\_\_\_  
Signer Is Representing: \_\_\_\_\_

Signer's Name: \_\_\_\_\_  
☐ Corporate Officer — Title(s): \_\_\_\_\_  
☐ Partner — ☐ Limited ☐ General  
☐ Individual ☐ Attorney in Fact  
☐ Trustee ☐ Guardian or Conservator  
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Inventors hereby authorize and request the Director of the United States Patent and Trademark Office, and all foreign countries' equivalent officials, to issue such Letters Patent as shall be granted on said application or applications based thereon to Assignee.

DATED this 30<sup>th</sup> day of May, 2017.

Somya S. Subramanian  
Somya S. Subramanian

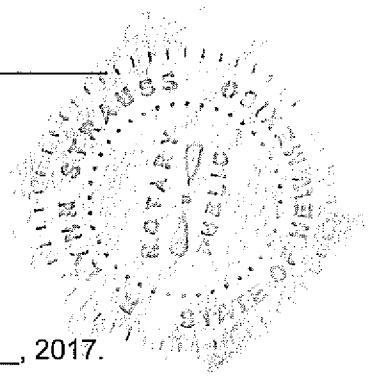
STATE OF NEW MEXICO )  
COUNTY OF Los Alamos ) ss.

This instrument was acknowledged before me this 30<sup>th</sup> day of May, 2017,  
by Somya S. Subramanian.

My commission expires:

[Signature]  
Notary Public

3-18-2021  
SEAL



DATED this 30<sup>th</sup> day of May, 2017.

Natalia Friedland

STATE OF NEW MEXICO )  
COUNTY OF \_\_\_\_\_ ) ss.

This instrument was acknowledged before me this \_\_\_\_\_ day of \_\_\_\_\_, 2017,  
by Natalia Friedland.

My commission expires:

\_\_\_\_\_  
Notary Public

\_\_\_\_\_  
SEAL