

PATENT ASSIGNMENT COVER SHEET

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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| COSTAS D. MARANAS | 08/28/2017 |
| MATTHEW J. GRISEWOOD | 08/28/2017 |
| RECEIVING PARTY DATA | |
| Name: | THE PENN STATE RESEARCH FOUNDATION |
| Street Address: | 304 OLD MAIN |
| City: | UNIVERSITY PARK |
| State/Country: | PENNSYLVANIA |
| Postal Code: | 16802 |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 15930147 |
| CORRESPONDENCE DATA | |
| Fax Number: | (734)913-6007 |
| <i>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.</i> | |
| Phone: | (734) 913-9300 |
| Email: | Aniko.Taganyi@DINSMORE.COM |
| Correspondent Name: | DOUGLAS L. WATHEN |
| Address Line 1: | DINSMORE & SHOHL LLP |
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| Address Line 4: | TROY, MICHIGAN 48084 |
| ATTORNEY DOCKET NUMBER: | 2016-4453 |
| NAME OF SUBMITTER: | DOUGLAS L. WATHEN |
| SIGNATURE: | /Douglas L. Wathen/ |
| DATE SIGNED: | 05/22/2020 |
| Total Attachments: 2 | |
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| source=2020-05-22 Assignment 2016-4453#page2.tif | |

ASSIGNMENT

FOR VALUE RECEIVED, and pursuant to my obligations under my employment agreements/appointments with THE PENNSYLVANIA STATE UNIVERSITY ("University"), I, COSTAS D. MARANAS and MATTHEW J. GRISEWOOD, hereby sell, assign and transfer unto the University's designee, THE PENN STATE RESEARCH FOUNDATION, as assignee, and its successors, assigns and legal representatives, the entire right, title and interest in and to all subject matter invented by me and disclosed or claimed in an application for Letters Patent of the United States of America, entitled:

"GENE CONSTRUCT ENCODING MUTANT THIOESTERASE, MUTANT THIOESTERASE ENCODED THEREBY, TRANSFORMED HOST CELL CONTAINING THE GENE CONSTRUCT, AND METHOD OF USING THEM TO PRODUCE MEDIUM-CHAIN FATTY ACIDS"

signed by us on the date set forth below; and in and to any and all continuations, continuations-in-part, divisions, reissues, renewals, extensions, substitutions, additions or reexaminations of such application and any U.S. patents issuing thereon; and in and to any and all corresponding international and foreign applications for Letters Patent and any foreign patents issuing thereon; and all Convention and Treaty Rights of any kind, in all countries throughout the world, for all such subject matter; together with all claims for damages by reason of future, present and past infringement, with the right to sue for and collect the same for assignee's use and on behalf of assignee's successors, assigns and legal representative.

We request that any and all patents for said inventions be issued to said assignee, its successors, assigns and legal representatives, or to such nominees as it may designate.

We agree that, when requested, we will, without charge to said assignee but at its expense, sign all papers, take all rightful oaths, and do all acts which may be necessary, desirable or convenient for securing, maintaining and enforcing patents for said inventions in any and all countries and for vesting title thereto in said assignee, its successors, assigns and legal representatives or nominees.

We authorize and empower the said assignee, its successors, assigns and legal representatives or nominees, to invoke and claim for any application for patent or other form of protection for said inventions filed by it or them, the benefit of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it, and to invoke and claim such right of priority without further written or oral authorization from us.

We hereby consent that a copy of this assignment shall be deemed a full legal and formal equivalent of any assignment, consent to file or like document which may be required in any country for any purpose and more particularly in proof of the right of said assignee or nominee to claim the aforesaid benefit of the right of priority provided by the International Convention for the Protection of Industrial Property, as amended, or by any convention which may henceforth be substituted for it.

We covenant with said assignee, its successors, assigns and legal representatives, that the rights and property herein conveyed are free and clear of any encumbrance, and that we have full right to convey the same as herein expressed.

Signed at University Park, Pennsylvania, this 28th day of August, 2017.

Witness: Matthew Grisewood 8/28/17

Signed: [Signature] 8/28/17
COSTAS D. MARANAS

STATE OF PENNSYLVANIA

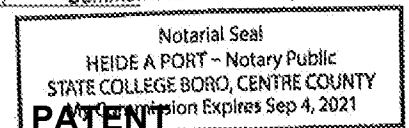
:
: ss:

COUNTY OF CENTRE

On this 28th day of August, 2017, before me, a Notary Public in and for the county and State aforesaid, appeared COSTAS D. MARANAS, to me personally known to be the person whose name is subscribed to the foregoing instrument, and acknowledged that he executed said instrument as his free and voluntary act for the uses and purposes therein expressed.

Witness my hand and seal the day and year last above given.

[Signature]
Notary Public
Commonwealth of Pennsylvania



Signed at University Park, Pennsylvania, this 28th day of August, 2017.

Witness: [Signature] 8/28/17

Signed: [Signature] 8/28/17
MATTHEW J. GRISEWOOD

STATE OF PENNSYLVANIA

:
: ss:

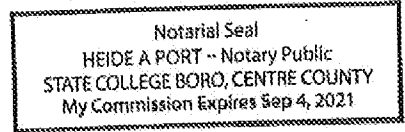
COUNTY OF CENTRE

On this 28th day of August, 2017, before me, a Notary Public in and for the county and State aforesaid, appeared MATTHEW J. GRISEWOOD, to me personally known to be the person whose name is subscribed to the foregoing instrument, and acknowledged that he executed said instrument as his free and voluntary act for the uses and purposes therein expressed.

Witness my hand and seal the day and year last above given.

[Signature]
Notary Public

Commonwealth of Pennsylvania



The Assignee hereby acknowledges and accepts the foregoing assignment.

Assignee: THE PENN STATE RESEARCH FOUNDATION

Signature: [Signature]

Date: 8/31/17

Name: Bradley A. Swope

Title: Interim Director, Office of Technology Management