

PATENT ASSIGNMENT COVER SHEET

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| SUBMISSION TYPE: | NEW ASSIGNMENT | | |
| NATURE OF CONVEYANCE: | ASSIGNMENT | | |
| CONVEYING PARTY DATA | | | |
| | Name | Execution Date | |
| | LISA C. ROHAN | 10/11/2017 | |
| | LINDSAY F. KRAMZER | 08/10/2017 | |
| RECEIVING PARTY DATA | | | |
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| City: | PITTSBURGH | | |
| State/Country: | PENNSYLVANIA | | |
| Postal Code: | 15260 | | |
| PROPERTY NUMBERS Total: 1 | | | |
| | Property Type | Number | |
| | PCT Number: | US2016017267 | |
| CORRESPONDENCE DATA | | | |
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| ATTORNEY DOCKET NUMBER: | 722766 | | |
| NAME OF SUBMITTER: | KRISTINA L. SWANSON | | |
| SIGNATURE: | /Kristina L. Swanson/ | | |
| DATE SIGNED: | 10/17/2017 | | |
| Total Attachments: 4 | | | |
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Leydig, Voit & Mayer, Ltd.
Two Prudential Plaza, Suite 4900
180 North Stetson Avenue
Chicago, Illinois 60601-6731

ASSIGNMENT

WHEREAS, WE, Lisa C. Rohan and Lindsay F. Kramzer, of the University Of Pittsburgh – Of The Commonwealth System Of Higher Education, have co-invented a certain invention entitled:

GRIFFITHSIN MUTANTS

for which invention an international patent application was filed February 10, 2016, under the Patent Cooperation Treaty and accorded application number PCT/US2016/017267; and

WHEREAS, we are some of the inventors named in the referenced patent application;

WHEREAS, the University Of Pittsburgh – Of The Commonwealth System Of Higher Education, a non-profit corporation, organized and existing under the laws of the Commonwealth of Pennsylvania, having an office at 1st Floor Gardner Steel Conference Center, 130 Thackeray Avenue, Pittsburgh, Pennsylvania, 15260, hereinafter referred to as Assignee, is desirous of acquiring our entire right, title, and interest in, to, and under the invention described in the patent application, including our entire priority right derived from the application,

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged,

Assignor assigns and transfers to Assignee our entire right, title, and interest in, to, and under the invention, the referenced patent application, other such applications (e.g., provisional applications, non-provisional applications, continuations, continuations-in-part, divisionals, reissues, reexaminations, national and regional phase applications, petty patent applications, and utility model applications) that may be filed in the U.S. and/or any country foreign to the U.S. on the invention, the patents that may issue thereon, and the patents as may be modified as the result of applicable procedures (e.g., supplemental examinations, ex parte reexaminations, inter partes reexaminations, inter partes reviews, post-grant reviews, and oppositions),

Assignor conveys to the Assignee the right to make applications in Assignee's own behalf for protection of the invention in the U.S. and countries foreign to the U.S. and to claim priority to the referenced patent application and other such applications that may be filed in the U.S. or any country foreign to the U.S. on the invention under the Patent Cooperation Treaty, the Paris Convention, and any other international arrangements,

Assignor will not execute any writing or do any act conflicting with the terms of this assignment,

Assignor will at any time upon request, without further or additional consideration, but at the expense of the Assignee, execute such additional assignments and other writings and do such

Appln. PCT/US2016/017267
Attorney Docket No. 722766

additional acts as the Assignee may deem necessary or desirable to pursue the patent applications identified herein, including, but not limited to, rendering all necessary assistance in making applications for and obtaining patents that may issue thereon in the U.S. and any countries foreign to the U.S. on the invention, and in enforcing any rights accruing as a result of such applications or patents, by, for example, executing statements and other affidavits,

Assignor and Assignee agree the terms of this assignment shall bind, and inure to the benefit of, the legal representatives, successors, and assigns of all parties hereto,

Assignor authorizes Assignee to insert in this assignment the number and filing date of the application if the number and filing date of the application are not recited herein at the time of execution of this assignment by any or all of the parties hereto,

Assignor and Assignee agree that U.S. law governs this assignment, and

Assignee acknowledges and accepts this assignment, as evidenced by the signature of an officer or authorized representative of Assignee below.

IN WITNESS WHEREOF, Assignor has hereunder set his hand on the date shown below.

Date 10-11-17

Lisa C. Rohan
Lisa C. Rohan

STATE OF _____)
COUNTY OF _____)

On this _____ day of _____, before me, a Notary Public in and for said county, appeared Lisa C. Rohan, who is personally known to me to be the same person whose name is subscribed to the foregoing assignment document, and acknowledged that he/she signed and delivered the document as his/her free and voluntary act for the uses and purposes therein set forth.

{SEAL}

Notary Public

My Commission Expires: _____

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Date 8/10/2017

Lindsay F. Kramzer
Lindsay F. Kramzer

~~STATE OF~~ COMMONWEALTH OF PENNSYLVANIA
COUNTY OF ALLEGHENY }

On this ^{10th} ~~8th~~ day of AUGUST, 2017, before me, a Notary Public in and for said county, appeared Lindsay F. Kramzer, who is personally known to me to be the same person whose name is subscribed to the foregoing assignment document, and acknowledged that he/she signed and delivered the document as his/her free and voluntary act for the uses and purposes therein set forth.

Martania C. Felton
Notary Public PENNSYLVANIA

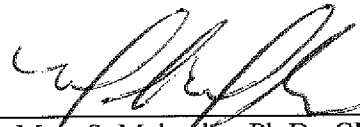
My Commission Expires: 10/1/2019

{SEAL}

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| COMMONWEALTH OF PENNSYLVANIA NOTARIAL SEAL Martania C. Felton, Notary Public City of Pittsburgh, Allegheny County My Commission Expires Oct. 1, 2019 MEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIES |
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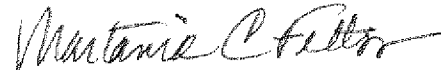
Date 17 AUG 2017


Name: Marc S. Malandro, Ph.D., CLP, RTTP
Title: Vice Chancellor for Technology
Management and Commercialization
Officer of Authorized Representative of Assignee

STATE OF COMMONWEALTH OF PENNSYLVANIA
COUNTY OF ALLEGHENY }

On this 17th day of AUGUST, 2017, before me, a Notary Public in and for said county, appeared Marc S. Malandro, who is personally known to me to be the same person whose name is subscribed to the foregoing assignment document, and acknowledged that he/she signed and delivered the document as his/her free and voluntary act for the uses and purposes therein set forth.

COMMONWEALTH OF PENNSYLVANIA
NOTARIAL SEAL
Martania C. Felton, Notary Public
City of Pittsburgh, Allegheny County
My Commission Expires Oct. 1, 2019
{SEAL} MEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIES


Notary Public
My Commission Expires: 10/1/2019