508017772 07/19/2023

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT8064923

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
NIRAJ H. TOLIA	06/29/2016
EDWIN CHEN	06/24/2016
NICHOLE SALINAS	06/30/2016

RECEIVING PARTY DATA

Name:	WASHINGTON UNIVERSITY
Street Address:	ONE BROOKINGS DRIVE
City:	ST. LOUIS
State/Country:	MISSOURI
Postal Code:	63130

PROPERTY NUMBERS Total: 1

Property Type	Number	
Application Number:	17103275	

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.

Email: pat-dept@quarles.com, theresa.doty@quarles.com
Correspondent Name: STEPHEN J. GARDNER, QUARLES & BRADY LLP

Address Line 1: 33 EAST MAIN STREET

Address Line 2: SUITE 900

Address Line 4: MADISON, WISCONSIN 53703-3095

ATTORNEY DOCKET NUMBER:	173738.01764
NAME OF SUBMITTER:	THERESA M. DOTY
SIGNATURE:	/Theresa M. Doty/
DATE SIGNED:	07/19/2023

Total Attachments: 5

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PATENT 508017772 REEL: 064307 FRAME: 0099

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PATENT REEL: 064307 FRAME: 0100 Washington University Reference No 015551-ORD1/1

ASSIGNMENT AGREEMENT

ASSIGNORS:

Niraj Harish Tolia Edwin Chen

WHEREAS, the aforementioned individuals (the "ASSIGNORS") have invented certain new and useful apparatus, methods, compositions, inventions, discoveries and/or improvements disclosed in U.S Patent Application Serial No. 15/160,784, filed 05/20/16 and entitled "Synthetic Plasmodium Antigens, Compositions, and Uses Thereof";

AND WHEREAS, Washington University, having an address located at One Brookings Drive, St. Louis, Missouri 63130 (hereinafter the "Assignee"), is desirous of acquiring the entire right, title and interest in and to said application(s) and the apparatus, inventions, discoveries, methods, compositions, and improvements therein disclosed;

NOW THEREFORE, for \$1 and other good and valuable consideration paid to us by said Assignee, including certain rights to share in royalties and other payments in accordance with Assignee's intellectual property policy, receipt whereof we hereby acknowledge, we do hereby assign, sell, transfer, and set over unto said Assignee the entire right, title, and interest in and to said application(s) and the apparatus, methods, compositions, inventions, discoveries and improvements therein disclosed for the United States of America and its territories and all foreign countries and any Letters Patent which may issue therefor in the United States and its territories and all foreign countries and all divisions, reissues, continuations, continuations-in-part, renewals, and/or extensions thereof, including the right to apply for Letters Patents in each foreign country and the United States of America and its territories, in its own name and to claim any and all priority rights under the International Convention, other conventions, treaties, or otherwise associated therewith for each country and the United States of America and its territories, said Assignee to have and to hold the interests herein assigned to the full ends of the terms of said Letters Patent and any and all divisions, reissues, continuations, continuations-in-part, renewals, and/or extensions thereof, respectively, as fully and entirely as the same would have been held and enjoyed by us had this Assignment not been made.

The U.S. Patent and Trademark Office is requested to issue such Letters Patent in accordance herewith. We covenant that we are the lawful owners of the said application(s), apparatus, methods, compositions, inventions, discoveries and improvements, that the same are unencumbered, that no license has been granted to make, use, or sell the said apparatus, methods, compositions, inventions, discoveries or improvements, and that we have the full right to make this Assignment.

Polem Acapement (M+14-53)

Washington University Reference No 015551-ORD1/1

And for said consideration, we agree individually that we will communicate to said Assignee or the representatives thereof any facts known to me respecting said apparatus, methods, compositions, inventions, discoveries and improvements, and will, upon request, but without expense to me, testify in any legal proceedings, sign all lawful papers, execute all divisional, reissue, continuation, continuation-in-part, renewal, and/or extension applications, make all rightful oaths, and generally do all other and further lawful acts, deemed necessary or expedient by said Assignee or by counsel for said Assignee, to assist or enable said Assignee to obtain and enforce full benefits from the rights and interests herein assigned.

And for said consideration, the undersigned hereby agrees to execute, at the request of said Assignee, all documents in connection with any application for foreign letters patent therefor.

Assignors hereby grant to Assignee and its agents and attorneys the power and right to insert herein the title, serial number and filing date of the application, the OTM case number and title of the application after this Assignment is executed by the Assignors.

This Assignment shall be binding upon our heirs, executors, administrators, and/or assigns, and shall inure to the benefit of the heirs, executors, administrators, successors, and/or assigns, as the case may be, of said Assignee.

Polem Acapement (M+14-53)

Washington University Reference No 015551-ORD1/1

	DocuSigned by:	
6/29/2016 Date:	Mray Harish Tolia	
Date:	Niraj Harish Tolia	
	3655 Cleveland Avenue	
	Residential Street Address	
	Saint Louis, MO, 63110	
	Residential City, State, ZIP Code	9
	Edwin Chen	
	Edwin Chen	
	6425 Southpointe DR.	
	Residential Street Address	
	Troy, Mt 48085	
	Residential City, State, ZIP Code	9
•	e Assignee: Washington Universit	y
Mdide Mercier		7/1/2016
Signature, Managing Director Technology Management		Date

ASSIGNMENT AGREEMENT

ASSIGNORS:

Nichole Salines

WHEREAS, the afcrementioned individuals (the "ASSIGNORS") have invented certain new and useful apparatus, methods, compositions, inventions, discoveries and/or improvements disclosed in U.S. Patent Application Serial No. 15/160,784, filed 05/20/16 and entitled "Synthetic Plasmodium Antigens, Compositions, and Uses Thereof":

AND WHEREAS, Washington University, having an address located at One Brookings Drive, St. Louis, Missouri 63130 (hereinafter the "Assignee"), is desirous of acquiring the entire right, title and interest in and to said application(s) and the apparatus, inventions, discoveries, methods, compositions, and improvements therein disclosed.

NOW THEREFORE, for \$1 and other good and valuable consideration paid to us by said Assignee, including certain rights to share in royalties and other payments in accordance with Assignee's intellectual property policy, receipt whereof we hereby acknowledge, we do hereby assign, sell, transfer, and set over unto said Assignee the entire right, title, and interest in and to said application(s) and the apparatus, methods, compositions, inventions, discoveries and improvements therein disclosed for the United States of America and its territories and all foreign countries and any Letters Patent which may issue therefor in the United States and its territories and all foreign countries and all divisions, releases, continuations, continuations in part, renewals, and/or extensions thereof, including the right to apply for Letters Patents in each forsign country and the United States of America and its territories, in its own name and to claim any and all priority rights under the international Convention, other conventions, treaties, or otherwise - associated therewith for each country and the United States of America and its territories, said Assignee to have and to hold the interests herein assigned to the full ends of the terms of said Letters Patent and any and alt divisions, reissues, continuations, continuations-in-part, renewals, and/or extensions thereof, respectively, as fully and entirely as the same would have been held and enjoyed by us had this Assignment not been made.

The U.S. Patent and Trademark Office is requested to Issue such Letters Patent in accordance herewith. We covenant that we are the lawful owners of the said application(s), apparatus, methods, compositions, inventions, discoveries and improvements, that the same are unencumbered, that no license has been granted to make, use, or sell the said apparatus, methods, compositions, inventions, discoveries or improvements, and that we have the full right to make this Assignment.

PATENT REEL: 064307 FRAME: 0104 (S) (S)(Sacracorae (105)ac)(ac)

And for said consideration, we agree individually that we will communicate to said Assignee or the representatives thereof any facts known to me respecting said apparatus, methods, compositions, inventions, discoveries and improvements, and will, upon request, but without expense to me, testify in any legal proceedings, sign all tawful papers, execute all divisional, reissue, continuation, continuation-in-part, renewal, and/or extension applications, make all rightful paths, and generally do all other and further lawful acts, deemed necessary or expedient by said Assignee or by counsel for said Assignee, to assist or enable said Assignee to obtain and enforce full benefits from the rights and interests herein assigned

And for said consideration, the undersigned hereby agrees to execute, at the request of said Assignes, all documents in connection with any application for foreign letters patent therefor.

Assignors hereby grant to Assignes and its agents and attorneys the power and right to insert herein the title, serial number and filing date of the application, the OTM case number and fille of the application after this Assignment is executed by the Assignors.

This Assignment shall be binding upon our heirs, executors, administrators, and/or assigns, and shall inure to the benefit of the heirs, executors, administrators, successors, and/or assigns, as the case may be, of said Assignee:

Date: <u>6/30//</u>6

Nichole Salinas

<u>5026 Dinara ave apt 15</u> Residential Street Address

Residential Street Address

St. Louis Mo. 63109
Residential City, State, ZIP Code

Accepted on behalf of the Assignee: Washington University

Signature, Management

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PATENT REEL: 064307 FRAME: 0105

RECORDED: 07/19/2023