504309802 04/06/2017

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
STEPHEN KALSCHEUER	05/20/2016

RECEIVING PARTY DATA

Name:	REGENTS OF THE UNIVERSITY OF MINNESOTA	
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State/Country:	MINNESOTA	
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PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15325696

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ATTORNEY DOCKET NUMBER:	09531.395US1
NAME OF SUBMITTER:	YANG LI
SIGNATURE:	/Yang Li/
DATE SIGNED:	04/06/2017

Total Attachments: 3

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PATENT 504309802 REEL: 041886 FRAME: 0144



University of Minnesota <u>ASSIGNMENT</u>

WHEREAS, I, STEPHEN KALSCHEUER, have invented certain new and useful improvements in ANTIBODY FRAGMENTS FOR DETECTING CANCER AND METHODS OF USE, for which applications for Letters Patents of the United States have been made, said applications being filed as follows: PCT/US2015/040044 on JULY 10, 2015 (the "Application(s)");

Whereas, REGENTS OF THE UNIVERSITY OF MINNESOTA ("Assignee"), having offices at 600 McNamara Alumni Center, 200 Oak Street SE, Minneapolis, Minnesota 55455-2020, is desirous of documenting the acquisition of the entire right, title and interest in and to said invention, said Application(s) and in, to and under any and all Letters Patent to be obtained therefor;

NOW, THEREFORE, to all whom it may concern, be it known that for good and valuable consideration, the receipt and sufficiency whereof is hereby acknowledged, and to the extent that I have not done so already via a prior agreement with the Assignee, or if I have already done so via a prior agreement with the Assignee then in confirmation of said prior agreement, I have sold, assigned, transferred and set over and by these presents do sell, assign, transfer and set over unto Assignee, its successors and assigns, the entire right, title and interest in and to the inventions set forth hereinabove and the entire right, title and interest in and to any and all Letters Patent of the United States and any foreign countries which may be granted therefor on the Application(s) including my rights under the Paris Convention for the Protection of Industrial Property, and in and to any and all extensions, divisions, continuations, continuations-in-part or reissues of said Application(s) and Letters Patent that may be granted. including all rights to claim priority therefrom, and specifically including the right to enforce such Letters Patent in the name of Assignee and to recover damages for past infringement of the rights conveyed herein, the same to be held and enjoyed by Assignee for its own use and benefit and use and benefit of its successors and assigns 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 and enjoyed by me had this assignment and sale not been made.

I hereby authorize said Assignee, its successors and assigns, or anyone it may properly designate, to apply for Letters Patent, in its own name if desired, in any and all foreign countries, and additionally to claim the filing date of any the Application(s) and/or otherwise take advantage of the provisions of the Paris Convention.

Attorney Docket Number: 09531.395WO1

UM Case No.: 20140299

Upon said consideration I do hereby covenant and agree with said Assignee, its successors and assigns, that I will not execute in writing or do any act whatsoever conflicting with these presents, and that I or my executors or administrators will at any time upon request, without further or additional consideration, but at the expense of said Assignee, its successors and assigns, execute such additional writings and do such additional acts as said Assignee, its successors and assigns, may deem necessary or desirable to perfect the Assignee's enjoyment of this grant, and render all necessary assistance in making application for and obtaining original, divisional, reissues or extended Letters Patent of the United States, or of any and all foreign countries on said invention, and in enforcing any rights occurring as a result of such application or patents, by giving testimony in any proceedings or transactions involving such applications or patents.

I hereby request the Honorable Commissioner of Patents and Trademarks to issue the Letters Patent to Assignee in accordance with this instrument.

IN WITNESS WHEREOF, I have 2016.	gn	this 20 ¹	_ day of
	STEFFIENK	ALSCILULK	
STATE OF Minnesota)		•	
)			
state of <u>Minnesota</u>) county of <u>Hennepin</u>)			
On this 20 day of 10 day of 5 day of 6 day of 6 day of 6 day of 6 day of 7	the person described in	and who executed th	lly appeared_ he foregoing
C			
IN WITNESS WHEREOF, I have	hereunto affixed my of	ficial signature with	n the seal of
my office, the day and year above written.	•	Ŭ	,
my cances, and any one year according	Kat	they flat	My
_	Notary Public		\mathcal{F}

Attorney Docket Number: 09531.395WO1

KATHY E. BITTERLY NOTARY PUBLIC - MINNESOTA My Commission Expires January 31, 2020

UM Case No.: 20140299

N WITNESS WHEREOF, I have hereum , 2016 on behalf of Assignaccepting this assignment.	to set my hand on this day of nee Regents of the University of Minnesota	
REGENTS	Paul B. Savereide Senior Associate General Counsel per Presidential Delegation DA_070027	
STATE OF MINNESOTA)		
COUNTY OF HENNEPIN)		
On this 25h day of, 2016, before me personally appeared Paul B. Savereide, to me known to be the person described in and who executed the foregoing instrument and acknowledged that s/he executed the same as his/her free act and deed.		
IN WITNESS WHEREOF, I have hereunto affixed my official signature with the seal of my office, the day and year above written.		
SARAH M. SHAFTMAN Notary Public-Minnesota My Commission Expires Jan 31, 2021	Notary Public	

Attorney Docket Number: 09531.395WO1 UM Case No.: 20140299