505327857 02/13/2019

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5374638

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
PEIMING ZHANG	12/06/2018
XU WANG	12/10/2018
JONG ONE IM	12/11/2018
STUART LINDSAY	11/07/2018

RECEIVING PARTY DATA

Name:	ARIZONA BOARD OF REGENTS ON BEHALF OF ARIZONA STATE UNIVERSITY	
Street Address:	1475 NORTH SCOTTSDALE ROAD	
Internal Address:	SKYSONG - SUITE 200	
City:	SCOTTSDALE	
State/Country:	ARIZONA	
Postal Code:	85257-3538	

PROPERTY NUMBERS Total: 2

Property Type	Number
Application Number:	62571077
Application Number:	16155972

CORRESPONDENCE DATA

Fax Number: (952)876-4098

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.

Phone: 9528764063

Email: jwilman@vhpmlaw.com, docketing@vhpmlaw.com

Correspondent Name: VIKSNINS HARRIS PADYS MALEN LLP
Address Line 1: 7851 METRO PARKWAY SUITE 325
Address Line 4: BLOOMINGTON, MINNESOTA 55425

ATTORNEY DOCKET NUMBER:	17555.063PV1; US1
NAME OF SUBMITTER:	JULIE WILMAN
SIGNATURE:	/Julie Wilman/
DATE SIGNED:	02/13/2019

PATENT 505327857 REEL: 048323 FRAME: 0001

Total Attachments: 12 source=17555.063US1 executed ASSN_ALL#page1.tif source=17555.063US1 executed ASSN_ALL#page2.tif source=17555.063US1 executed ASSN_ALL#page3.tif source=17555.063US1 executed ASSN_ALL#page4.tif source=17555.063US1 executed ASSN_ALL#page5.tif source=17555.063US1 executed ASSN_ALL#page6.tif source=17555.063US1 executed ASSN_ALL#page7.tif source=17555.063US1 executed ASSN_ALL#page8.tif source=17555.063US1 executed ASSN_ALL#page9.tif source=17555.063US1 executed ASSN_ALL#page10.tif source=17555.063US1 executed ASSN_ALL#page11.tif source=17555.063US1 executed ASSN_ALL#page11.tif

WHEREAS, I/we, (each referred to as "Assignor")

PEIMING ZHANG
XU WANG
JONG ONE IM
STUART LINDSAY

made certain new and useful inventions and improvements for which I/we filed the following patent application(s)

COUNTRY	SERIAL NUMBER	FILING DATE
US	62/571,077	OCTOBER 11, 2017
US	16/155,972	OCTOBER 10, 2018

AND WHEREAS, <u>ARIZONA BOARD OF REGENTS ON BEHALF OF ARIZONA</u>

<u>STATE UNIVERSITY</u>, having an office and place of business at <u>1475 NORTH SCOTTSDALE</u>

<u>ROAD</u>, <u>SKYSONG - SUITE 200</u>, <u>SCOTTSDALE</u>, <u>ARIZONA 85257-3538</u> (hereinafter "Assignee"), is desirous of acquiring the entire right, title and interest in and to said inventions, improvements and application and in and to the Letters Patent to be obtained therefore;

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 the Assignor has not done so already via a prior agreement with the Assignee, or if the Assignor has already done so via a prior agreement with the Assignee then in confirmation of said prior agreement, I/we hereby sell, assign, transfer and set over unto said Assignee, including its successors and assigns, my/our entire right, title and interest to all inventions disclosed in the aforesaid application(s), including all rights to claim priority therefrom, and to any and all present or future patent applications to such inventions filed in the United States or any other country or region, inclusive of, but not limited to, all divisions, continuations, continuations-in-part, renewals thereof, substitutions, reexaminations, reissues, provisional patent applications, applications filed

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under the Patent Cooperation Treaty, certificates of addition, utility models, and petty patents, as well as all other intellectual property related to the applications, inclusive of, but not limited to, supplementary protection certificates, and to any and all Letters Patents and any related patent term extensions that may be granted for said Letters Patents with respect to the applications; all of the above to be held by Assignee as fully and entirely as the same would have been held by me had this Assignment not been made.

AND, for the consideration aforesaid, I/we do hereby agree that I/we and my/our executors and legal representatives will make, execute and deliver any and all other instruments in writing including any and all further application papers, affidavits, assignments and other documents, and will communicate to said Assignee, its successors and representatives all facts known to me relating to said improvements and the history thereof and will testify in all legal proceedings and generally do all things which may be necessary or desirable more effectually to secure to and vest in said Assignee, its successors or assigns the entire right, title and interest in and to the said improvements, inventions, applications, Letters Patent, rights, titles, benefits, privileges and advantages hereby sold, assigned and conveyed, or intended so to be.

AND, furthermore, I/we covenant and agree with said Assignee, its successors and assigns, that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by me/us and that full right to convey the same as herein expressed is possessed by me/us.

IN TESTIMONY WHEREOF, I have hereunto set my hand this _____ day of, 2018. PEIMING ZHANG IN TESTIMONY WHEREOF, I have hereunto set my hand this _____ day of , 2018. XU WANG IN TESTIMONY WHEREOF, I have hereunto set my hand this _____ day of Deember , 2018. JONG ONE IM IN TESTIMONY WHEREOF, I have hereunto set my hand this _____ day of, 2018. STUART LINDSAY

Decket No. 17555.063PV) / 17555.063US) Senal Number : 62/571/077 / 16/155.072

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Page 3 IN TESTIMONY WHEREOF, I have hereunto set my hand this _____ day of _____, 2018. **PEIMING ZHANG** IN TESTIMONY WHEREOF, I have hereunto set my hand this way of December, 2018. **XU WANG** IN TESTIMONY WHEREOF, I have hereunto set my hand this _____ day of _____, 2018. JONG ONE IM IN TESTIMONY WHEREOF, I have hereunto set my hand this _____ day of _____, 2018. STUART LINDSAY

Docket No: 17555.063PV1 / 17555.063US1 Serial Number : 62/571,077 / 16/155,972

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Page 3

STUART LINDSAY
PATENT
REEL: 048323 FRAME: 0011

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RECORDED: 02/13/2019

IN TESTIMONY WHERE Tec.,, 2018.	EOF, I have hereunto set my hand this 6 day of
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	XU WANG
IN TESTIMONY WHERI	EOF, I have hereunto set my hand this day of
	JONG ONE IM
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	STUART LINDSAY