

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT4319975

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
MICHAEL SIERKS	01/11/2013
YONG SHEN	01/23/2013
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	ARIZONA BOARD OF REGENTS, A BODY CORPORATE OF THE STATE OF ARIZONA, ACTING FOR AND ON BEHALF OF ARIZONA STATE UNIVERSITY
<b>Street Address:</b>	1475 NORTH SCOTTSDALE ROAD
<b>Internal Address:</b>	SKYSONG - SUITE 200
<b>City:</b>	SCOTTSDALE
<b>State/Country:</b>	ARIZONA
<b>Postal Code:</b>	85257-3538
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	15332954
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(952)876-4098
<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>	
<b>Phone:</b>	9528764063
<b>Email:</b>	jwilman@vhpglobalip.com
<b>Correspondent Name:</b>	VIKSNINS HARRIS & PADYS PLLP
<b>Address Line 1:</b>	7851 METRO PARKWAY
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<b>Address Line 4:</b>	BLOOMINGTON, MINNESOTA 55425
<b>ATTORNEY DOCKET NUMBER:</b>	17555.006US2
<b>NAME OF SUBMITTER:</b>	YANG LI
<b>SIGNATURE:</b>	/Yang Li/
<b>DATE SIGNED:</b>	03/15/2017
<b>Total Attachments: 6</b>	
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## ASSIGNMENT

WHEREAS, We, Michael Sierks and Yong Shen, made certain new and useful inventions and improvements for which we filed a patent application in the United States on January 11, 2012, which application was assigned U.S. Patent Application Serial Number 61/585,539.

AND WHEREAS, ARIZONA BOARD OF REGENTS, A BODY CORPORATE OF THE STATE OF ARIZONA ACTING FOR AND ON BEHALF OF ARIZONA STATE UNIVERSITY, a corporation organized and existing under and by virtue of the laws of the state of Arizona having an office and place of business at 1475 North Scottsdale Road, SkySong – Suite 200, Scottsdale, Arizona 85257-3538 (hereinafter "Assignee"), is desirous of acquiring the entire right, title and interest in and to said inventions, improvements and application and in and to any 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 are hereby acknowledged, we hereby sell, assign, transfer and set over unto said Assignee, including its successors and assigns, 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 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 us had this Assignment not been made.

AND, for the consideration aforesaid, we do hereby agree that we and 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 us 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, 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 us and that full right to convey the same as herein expressed is possessed by us.

IN TESTIMONY WHEREOF, I have hereunto set my hand this 11 day of

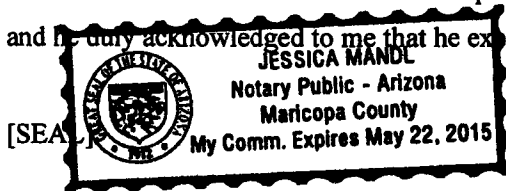
January, 2013.

Michael Sierks  
Michael Sierks

STATE OF Arizona)  
)ss

COUNTY OF Maricopa)

On this 11<sup>th</sup> day of January, 2013 before me personally appeared Michael Sierks to me known and known to me to be the person described in and who executed the foregoing instrument, and he duly acknowledged to me that he executed the same for the uses and purposes therein set forth.



Jessica Mandl  
Notary Public

IN TESTIMONY WHEREOF, I have hereunto set my hand this \_\_\_\_ day of \_\_\_\_\_, 2013.

\_\_\_\_\_  
Yong Shen

STATE OF \_\_\_\_\_)

)ss

COUNTY OF \_\_\_\_\_)

On this \_\_\_\_ day of \_\_\_\_\_, 2013 before me personally appeared Yong Shen to me known and known to me to be the person described in and who executed the foregoing instrument, and he duly acknowledged to me that he executed the same for the uses and purposes therein set forth.

[SEAL]

\_\_\_\_\_  
Notary Public  
\_\_\_\_\_

## ASSIGNMENT

WHEREAS, We, Michael Sierks and Yong Shen, made certain new and useful inventions and improvements for which we filed a patent application in the United States on January 11, 2012, which application was assigned U.S. Patent Application Serial Number 61/585,539.

AND WHEREAS, ARIZONA BOARD OF REGENTS, A BODY CORPORATE OF THE STATE OF ARIZONA ACTING FOR AND ON BEHALF OF ARIZONA STATE UNIVERSITY, a corporation organized and existing under and by virtue of the laws of the state of Arizona having an office and place of business at 1475 North Scottsdale Road, SkySong – Suite 200, Scottsdale, Arizona 85257-3538 (hereinafter "Assignee"), is desirous of acquiring the entire right, title and interest in and to said inventions, improvements and application and in and to any 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 are hereby acknowledged, we hereby sell, assign, transfer and set over unto said Assignee, including its successors and assigns, 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 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 us had this Assignment not been made.

AND, for the consideration aforesaid, we do hereby agree that we and 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 us 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, 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 us and that full right to convey the same as herein expressed is possessed by us.

IN TESTIMONY WHEREOF, I have hereunto set my hand this \_\_\_\_ day of \_\_\_\_\_, 2013.

\_\_\_\_\_  
Michael Sierks

STATE OF \_\_\_\_\_ )  
 )ss  
COUNTY OF \_\_\_\_\_ )

On this \_\_\_\_\_ day of \_\_\_\_\_, 2013 before me personally appeared Michael Sierks to me known and known to me to be the person described in and who executed the foregoing instrument, and he duly acknowledged to me that he executed the same for the uses and purposes therein set forth.

[SEAL]

\_\_\_\_\_  
Notary Public

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IN TESTIMONY WHEREOF, I have hereunto set my hand this 23 day of  
January, 2013.

Yong Shen

STATE OF Florida

)ss

COUNTY OF Manatee

On this 23 day of January, 2013 before me personally appeared Yong Shen to  
me known and known to me to be the person described in and who executed the foregoing instrument,  
and he duly acknowledged to me that he executed the same for the uses and purposes therein set forth.

[SEAL]



MATTHEW J. KOTUBY  
Notary Public, State of Florida  
Commission# EE 58764  
My comm. expires January 26, 2015

Notary Public