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| PATENT ASSIGNMENT COVER SHEET |
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| SUBMISSION TYPE: | NEW ASSIGNMENT |
| NATURE OF CONVEYANCE: | ASSIGNMENT |
| CONVEYING PARTY DATA | |
| Name | Execution Date |
| CURT CIVIN | 02/18/2016 |
| XIAOCHUN CHEN | 02/18/2016 |
| JENNIFER FOX | 02/22/2016 |
| RECEIVING PARTY DATA | |
| Name: | University of Maryland, Baltimore |
| Street Address: | 620 W. Lexington Street, 4th floor |
| City: | Baltimore |
| State/Country: | MARYLAND |
| Postal Code: | 21201 |
| PROPERTY NUMBERS Total: 1 | |
| Property Type | Number |
| Application Number: | 14757433 |
| CORRESPONDENCE DATA | |
| Fax Number: | (202)721-8250 |
| <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> | |
| Email: | dhissong@wenderoth.com |
| Correspondent Name: | WENDEROTH, LIND & PONACK, LLP |
| Address Line 1: | 1030 15TH ST NW, SUITE 400 EAST |
| Address Line 4: | WASHINGTON, D.C. 20005 |
| ATTORNEY DOCKET NUMBER: | 2015-1559A |
| NAME OF SUBMITTER: | DREW HISSONG |
| SIGNATURE: | /Drew Hissong/ |
| DATE SIGNED: | 03/17/2016 |
| Total Attachments: 4 | |
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| source=Assignment_UMB#page2.tif | |
| source=Assignment_UMB#page3.tif | |
| source=Assignment_UMB#page4.tif | |



ASSIGNMENT

In consideration of UMB's agreement to consider Assignors as "UMB Inventors" who are entitled to revenue distributions under the University System of Maryland Policy on Intellectual Property, and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Curt Civin, Xiaochun Chen, and Jennifer Fox ("Assignors") hereby sell, assign, and transfer to the University of Maryland, Baltimore, a constituent institution of the University System of Maryland (which is a public corporation and an instrumentality of the State of Maryland) ("UMB"), and having an office at Office of Research and Development, 620 W. Lexington Street, 4th Floor, Baltimore, MD 21201, their entire right, title, and interest in and to the invention known as the "Invention":

check applicable space(s) for the United States of America (as defined in 35 U.S.C. §100) and throughout the world,

for which application for patent was made in the United States of America on December 23, 2014 (also known as U.S. provisional patent application serial number 62/096,007) and on December 23, 2015 (also known as U.S. non provisional patent application serial number 14/757,433) and in any and all non-provisional and/or international or foreign patent applications thereon, continuing patent applications thereon (including without limitation substitutions, divisionals, continuations, and continuations-in-part), patents or Letters Patent issued therefrom, and reissues, extensions, renewals, and reexaminations of such applications or patents.

Such entire right, title, and interest in the Invention are to be held and enjoyed by UMB to the same extent as they would have been held and enjoyed by Assignors had this Assignment not been made, to the full end of the term or terms for which any such patent(s) issue. Assignors hereby represent and warrant that they have full right to convey their right, title, and interest in the Invention herein assigned, and that they have not executed and will not execute any agreement or other document in conflict therewith.

Assignors agree to execute and deliver separate Assignments, patent applications, and other documents necessary or expedient in connection with, and to cooperate with and to assist UMB in connection with: further perfecting the assignment of the Invention to UMB; UMB's preparation, filing, prosecution (including without limitation defense in interference proceedings, reexaminations, or litigation), enforcement, and/or maintenance of the patents and patent applications; or for UMB to protect and commercialize its intellectual property right, title, and interests in the Invention (including without limitation copyright and/or trademarks).

IN WITNESS WHEREOF, executed by Assignor(s) on the date opposite his/her name.

ASSIGNOR:

2/18/16
Date

Curt Civin (SEAL)
Curt Civin

Address:
100 Harborview Drive, Ph 1D
Baltimore, Maryland 21230

STATE OF Maryland)
CITY / COUNTY OF Howard)

I HEREBY CERTIFY, that on this 18th day of February, 20 16, before me, Notary Public of the State of Maryland, personally appeared Curt Civin, known to me (or satisfactorily proven) to be the person whose name is subscribed to the within instrument, and acknowledged that, being authorized to do so, he or she executed the same as for the purposes contained therein.

IN WITNESS WHEREOF, I have hereunto set my hand and official seal the day and year last above-mentioned.

[SEAL] VIRGINIA DUNN
Notary Public-Maryland
Howard County
My Commission Expires
September 12, 2018
My Commission Expires: 9/12/16

Virginia Dunn
Notary Public

PATENT

ASSIGNOR:

2/18/2016
Date

[Signature] (SEAL)
Xiaochun Chen

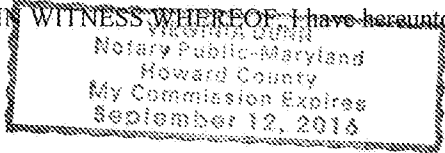
Address:
204 Cinder Road
Timonium, Maryland 21093

STATE OF Maryland)
CITY / COUNTY OF Howard)

I HEREBY CERTIFY, that on this 18th day of February, 2016, before me, Notary Public of the State of Maryland, personally appeared Xiaochun Chen, known to me (or satisfactorily proven) to be the person whose name is subscribed to the within instrument, and acknowledged that, being authorized to do so, he or she executed the same as for the purposes contained therein.

IN WITNESS WHEREOF, I have hereunto set my hand and official seal the day and year last above-mentioned.

[SEAL]



[Signature]
Notary Public

My Commission Expires: 9/12/2016

ASSIGNOR:

Date

(SEAL)
Jennifer Fox

Address:
401 Timber Lane
Falls Church, VA 22046

STATE OF _____)
CITY / COUNTY OF _____)

I HEREBY CERTIFY, that on this _____ day of _____, 20____, before me, Notary Public of the State of _____, personally appeared Jennifer Fox, known to me (or satisfactorily proven) to be the person whose name is subscribed to the within instrument, and acknowledged that, being authorized to do so, he or she executed the same as for the purposes contained therein.

IN WITNESS WHEREOF, I have hereunto set my hand and official seal the day and year last above-mentioned.

[SEAL]

Notary Public

My Commission Expires: _____

ASSIGNMENT

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IN WITNESS WHEREOF, executed by Assignor(s) on the date opposite his/her name.

ASSIGNOR:

(SEAL)

Date

Curt Civin

Address:

100 Harborview Drive, Ph 1D
Baltimore, Maryland 21230

STATE OF _____)
CITY / COUNTY OF _____)

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IN WITNESS WHEREOF, I have hereunto set my hand and official seal the day and year last above-mentioned.

[SEAL]

Notary Public

My Commission Expires: _____

PATENT

REEL: 038014 FRAME: 0855

ASSIGNOR:

(SEAL)

Date

Xiaochun Chen

Address:

204 Cinder Road
Timonium, Maryland 21093

STATE OF _____)

CITY / COUNTY OF _____)

I HEREBY CERTIFY, that on this _____ day of _____, 20____, before me, Notary Public of the State of _____, personally appeared Xiaochun Chen, known to me (or satisfactorily proven) to be the person whose name is subscribed to the within instrument, and acknowledged that, being authorized to do so, he or she executed the same as for the purposes contained therein.

IN WITNESS WHEREOF, I have hereunto set my hand and official seal the day and year last above-mentioned.

[SEAL]

Notary Public

My Commission Expires: _____

ASSIGNOR:

(SEAL)

Date

2/22/16

Jennifer Fox

Address:

401 Timber Lane
Falls Church, VA 22046

STATE OF _____)

CITY / COUNTY OF _____)

I HEREBY CERTIFY, that on this _____ day of _____, 20____, before me, Notary Public of the State of _____, personally appeared Jennifer Fox, known to me (or satisfactorily proven) to be the person whose name is subscribed to the within instrument, and acknowledged that, being authorized to do so, he or she executed the same as for the purposes contained therein.

IN WITNESS WHEREOF, I have hereunto set my hand and official seal the day and year last above-mentioned.

[SEAL]

Notary Public

My Commission Expires: _____

PATENT