505552491 07/01/2019

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5599292

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
RICHARD ABRAMSON	05/02/2019
ANDREW JOSEPH ASMAN	05/30/2019
REBECCAH BAUCOM	05/08/2019
PATRICK KELLY	05/01/2019
BENNETT LANDMAN	05/01/2019
MAYUR PATEL	05/13/2019
ANDREW PLASSARD	05/30/2019
BENJAMIN POULOSE	06/17/2019
MIYA SMITH	06/27/2019
ZHOUBING XU	05/07/2019

RECEIVING PARTY DATA

Name:	VANDERBILT UNIVERSITY
Street Address:	305 KIRKLAND HALL
Internal Address:	2201 WEST END AVENUE
City:	NASHVILLE
State/Country:	TENNESSEE
Postal Code:	37240

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15540487

CORRESPONDENCE DATA

Fax Number: (216)621-4072

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: 2166212234

Email: vmaichl@tarolli.com

Correspondent Name: RICHARD S. WESORICK

Address Line 1: 1300 EAST NINTH STREET

Address Line 2: SUITE 1700

Address Line 4: CLEVELAND, OHIO 44114

PATENT 505552491 REEL: 049641 FRAME: 0728

ATTORNEY DOCKET NUMBER:	VU-024109 US PCT
NAME OF SUBMITTER:	RICHARD S. WESORICK
SIGNATURE:	/Richard S. Wesorick/
DATE SIGNED:	07/01/2019
	This document serves as an Oath/Declaration (37 CFR 1.63).

Total Attachments: 10

source=VU-024109-DecAssn-SIGNED#page1.tif source=VU-024109-DecAssn-SIGNED#page2.tif source=VU-024109-DecAssn-SIGNED#page3.tif source=VU-024109-DecAssn-SIGNED#page4.tif source=VU-024109-DecAssn-SIGNED#page5.tif source=VU-024109-DecAssn-SIGNED#page6.tif source=VU-024109-DecAssn-SIGNED#page7.tif source=VU-024109-DecAssn-SIGNED#page8.tif source=VU-024109-DecAssn-SIGNED#page9.tif source=VU-024109-DecAssn-SIGNED#page10.tif

COMBINATION ASSIGNMENT-STATEMENT **DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION** USING AN APPLICATION DATA SHEET (37 CFR 1.76) AND ASSIGNMENT FOR SINGLE ASSIGNEE IMAGE SEGMENTATION VIA MULTI-ATLAS FUSION WITH CONTEXT LEARNING Title of Invention: **DECLARATION** As a below named inventor I hereby declare that: - This declaration is directed to: ☐ The attached application, or X United States application or PCT international application number 15/540.487 filed on June 28, 2017. - The above-identified application was made or authorized to be made by me. - I believe that I am the original inventor or an original joint inventor of a claimed invention in the application. - I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 USC 1001 by fine or imprisonment of not more than five (5) years, or both. ASSIGNMENT WHEREAS, Vanderbilt University having an office and place of business at 305 Kirkland Hall, 2201 West End Avenue, Nashville, Tennessee, 37240, USA, is desirous of acquiring the entire interest in the same; NOW, THEREFORE, for good and valuable consideration, as described in the Policy on Technology and Literary and Artistic Works, published in the 1993-1994 Vanderbilt Faculty Manual, as such policy is amended from time to time, the sufficiency and adequacy and receipt of which are hereby acknowledged, I, the INVENTOR, agree to assign and hereby do sell, assign and transfer unto said VANDERBILT UNIVERSITY the entire right, title and interest in and to said invention and application throughout the world, including, without limitation, any Letters Patent which may issue thereon, and any subsequent application claiming priority to the above-identified application, reissue, reexamination, divisional, continuation-in-part, extension or continuation thereof and all rights of priority under the Paris Convention arising from said application, and all other rights in the INVENTION possessed by the INVENTOR, including the right to bring suit for damages due to past infringements; the same for VANDERBILT UNIVERSITY'S legal representatives and assigns, as fully and entirely as the same would have been held by us had this assignment and sale not been made; AND, I hereby bind myself, my heirs, legal representatives, administrators and assign properly to execute without further consideration any and all applications, petitions, oaths and assignments or other papers and instruments which may be necessary in order to carry into full force and effect, the sale, assignment, transfer and conveyance hereby made or intended to be made and generally do everything possible to aid VANDERBILT UNIVERSITY, its legal representatives and assigns, to obtain and enforce proper protection for said invention in all countries throughout the world; AND, I hereby covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment. LEGAL NAME OF INVENTOR Inventor: Richard ABRAMSON Signature:

Witness:

Signature:

COMBINATION ASSIGNMENT-STATEMENT

DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76) AND ASSIGNMENT FOR SINGLE ASSIGNEE IMAGE SEGMENTATION VIA MULTI-ATLAS FUSION WITH CONTEXT LEARNING Title of Invention: DECLARATION As a below named inventor I hereby declare that: - This declaration is directed to: ☐ The attached application, or X United States application or PCT international application number 15/540,487 filed on June 28, 2017. - The above-identified application was made or authorized to be made by me. - I believe that I am the original inventor or an original joint inventor of a claimed invention in the application. - I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 USC 1001 by fine or imprisonment of not more than five (5) years, or both. **ASSIGNMENT** WHEREAS, Vanderbilt University having an office and place of business at 305 Kirkland Hall, 2201 West End Avenue, Nashville, Tennessee, 37240, USA, is desirous of acquiring the entire interest in the same; NOW, THEREFORE, for good and valuable consideration, as described in the Policy on Technology and Literary and Artistic Works, published in the 1993-1994 Vanderbilt Faculty Manual, as such policy is amended from time to time, the sufficiency and adequacy and receipt of which are hereby acknowledged, I, the INVENTOR, agree to assign and hereby do sell, assign and transfer unto said VANDERBILT UNIVERSITY the entire right, title and interest in and to said invention and application throughout the world, including, without limitation, any Letters Patent which may issue thereon, and any subsequent application claiming priority to the above-identified application, reissue, reexamination, divisional, continuation-in-part, extension or continuation thereof and all rights of priority under the Paris Convention arising from said application, and all other rights in the INVENTION possessed by the INVENTOR. including the right to bring suit for damages due to past infringements; the same for VANDERBILT UNIVERSITY'S legal representatives and assigns, as fully and entirely as the same would have been held by us had this assignment and sale not been made; AND, I hereby bind myself, my heirs, legal representatives, administrators and assign properly to execute without further consideration any and all applications, petitions, oaths and assignments or other papers and instruments which may be necessary in order to carry into full force and effect, the sale, assignment, transfer and conveyance hereby made or intended to be made and generally do everything possible to aid VANDERBILT UNIVERSITY, its legal representatives and assigns, to obtain and enforce proper protection for said invention in all countries throughout the world:

LEGAL NAME OF INVENTOR

entered into which would conflict with this assignment.

Inventor: Andrew Joseph ASMAN Signature:	Date: 05/30/2019
Witness: Bennett Jandona. Signature:	Date: 5/30/19

AND, I hereby covenant that no assignment, sale, agreement or encumbrance has been or will be made or

Attorney Docket Na.; <u>VV-624169 US PCT</u> VU Reference No.; <u>VV1158931/S1</u>

COMBINATION ASSIGNMENT-STATEMENT

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DECLA USING AN APPLICAT	RATION (37 CFR 1.63) FOR UTILE TON DATA SHEET (37 CFR 1.76) /	TY OR DES	IGN APPLICATION NMENT FOR SINGLE ASSIGNEE
Title of Invention: IM	AGE SEGMENTATION VIA MULTI	ATLAS FUS	SION WITH CONTEXT LEARNING
	DECLARATION).N	
As a below named inventor		*****	
- This declaration is ☐ The attach X United State	directed to: ad application, or as application or PCT international appl	ication numb	er 15/540,487 filed on June 28, 2017.
 The above-identific I believe that I am t I hereby acknowled 	d application was made or authorized the original inventor or an original joint go that any willful false statement mad risonment of not more than five (5) year	 be made by inventor of a c in this deck 	me.
	<u>ASSIGNMEN</u>	<u>C</u>	
WHEREAS, <u>Vand</u> End Avenue, Nashville, Te	erbilt University having an office and nuessee, 37240, USA, is desirous of ac	place of busin Juiring the cr	ness at 305 Kirkland Hall, 2201 West of interest in the same;
time to time, the sufficiency assign and hereby do sell, as interest in and to said inventiwhich may issue thereon, an reexamination, divisional, or Paris Convention arising froincluding the right to bring s	RE, for good and valuable consideration published in the 1993-1994 Vanderbilt and adequacy and receipt of which are sign and transfer unto said VANDERB on and application throughout the world any subsequent application claiming patinuation-in-part, extension or continued application, and all other rights in the for damages due to past infringement gas, as fully and entirely as the same were supplied in the suppli	Faculty Man hereby acknown of UNIVE do including, where of the ation thereof in the INVEN is the same of the the same of the s	mal, as such policy is amended from whedged, I, the INVENTOR, agree to RSITY the entire right, title and without limitation, any Letters Patent above-identified application, reissue, and all rights of priority under the ITION possessed by the INVENTOR, for VANDERBUILT INVENTAGE.
which may be necessary in o made or intended to be made	myself, my heirs, legal representatives any and all applications, petitions, oat rder to carry into full force and effect, t and generally do everything possible to o obtain and enforce proper protection	is and assign he sale, assig vald VANDI	ments or other papers and instruments mient, iransfer and conveyance hereby ERRIF FINIVEWOFTY its land
AND, I hereby cove entered into which would cor	nant that no assignment, sale, agreemen flict with this assignment.	or encumb	rance has been or will be made or
LEGAL NAME OF INVEN	TOR		
Inventor: Rebeccah B.	NUCOM TATA	Date:	5/6/19
Signature:			
Witness: <u>Debbi</u>	e Miller	Dates	5/8/19
Signature:			

COMBINATION ASSIGNMENT-STATEMENT

DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION	
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USING AN APPLICATION DATA SHEET (37 CFR 1,76) AND ASSIGNMENT FOR SINGLE ASS	

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IMAGE SEGMENTATION VIA MULTI-ATLAS FUSION WITH CONTEXT LEARNING

DECLARATION

As a below named inventor I hereby declare that:

- This declaration is directed to:
 - The attached application, or
 - X. United States application or PCT international application number <u>15:540.487</u> filed on <u>June 28, 2017</u>.
- The above-identified application was made or authorized to be made by me.
- I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.
- Thereby acknowledge that any willful false statement made in this declaration is punishable under 18 USC.
 1001 by fine or imprisonment of not more than five (5) years, or both.

ASSIGNMENT

WHEREAS, <u>Vanderbilt University</u> having an office and place of business at <u>305 Kirkland Hall, 2201 West</u>
<u>End Avenue, Nashville, Tennessee, 37240, USA</u>, is desirous of acquiring the entire interest in the same.

NOW, THEREFORE, for good and valuable consideration, as described in the Policy on Technology and Literary and Artistic Works, published in the 1993-1994 Vanderbillt Paculty Manual, as such policy is amended from time to time, the sufficiency and adequacy and receipt of which are hereby acknowledged. If the INVENTOR, agrees to assign and hereby do sell, assign and transfer unto said VANDERBILT UNIVERSITY the entire right, title and interest in and to said invention and application throughout the world, including, without limitation, any Letters Patent which may issue thereon, and any subsequent application claiming priority to the above-identified application, reissue reexamination, divisional, communation-in-part, extension or continuation thereof and all rights of priority under the Paris Convention arising from said application, and all other rights in the INVENTION possessed by the INVENTOR, including the right to bring suit for damages due to past infringements; the same for VANDERBILT UNIVERSITY'S legal representatives and assigns, as fully and entirely as the same would have been held by us had this assignment and sale not been made;

AND I hereby bind myself, my heirs, legal representatives, administrators and assign properly to execute without further consideration any and all applications, petitions, eaths and assignments or other papers and instruments which may be necessary in order to carry into full force and effect, the sale, assignment, transfer and conveyance hereby made or intended to be made and generally do everything possible to aid VANDERBILT UNIVERSITY, its legal representatives and assigns, to obtain and enforce proper protection for said invention in all countries throughout the world;

AND, I hereby coveriant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.

LEGAL NAME OF INVENTOR

Inventor: Patrick KELLY

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5/1/2019

Signature

Winace

SAlly K Winkle

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1/1943019

Signature:

	COMBINATION ASSIGNMENT-STATEMENT							
	CLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION CATION DATA SHEET (37 CFR 1.76) AND ASSIGNMENT FOR SINGLE ASSIGNEE							
Title of Invention:	IMAGE SEGMENTATION VIA MULTI-ATLAS FUSION WITH CONTEXT LEARNING							
	<u>DECLARATION</u>							
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	ASSIGNMENT							
WHEREAS, <u>Y</u> End Avenue, Nashvill	Vanderbilt University having an office and place of business at 305 Kirkland Hall, 2201 West e, Tennessee, 37240, USA, is desirous of acquiring the entire interest in the same;							
Literary and Artistic W time to time, the suffic assign and hereby do s interest in and to said i which may issue thereous reexamination, division Paris Convention arisin including the right to b	TEFORE, for good and valuable consideration, as described in the Policy on Technology and Yorks, published in the 1993-1994 Vanderbilt Faculty Manual, as such policy is amended from iency and adequacy and receipt of which are hereby acknowledged, I, the INVENTOR, agree to ell, assign and transfer unto said VANDERBILT UNIVERSITY the entire right, title and invention and application throughout the world, including, without limitation, any Letters Patent on, and any subsequent application claiming priority to the above-identified application, reissue, and, continuation-in-part, extension or continuation thereof and all rights of priority under the fig from said application, and all other rights in the INVENTION possessed by the INVENTOR, ring suit for damages due to past infringements; the same for VANDERBILT UNIVERSITY'S and assigns, as fully and entirely as the same would have been held by us had this assignment and							
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	y covenant that no assignment, sale, agreement or encumbrance has been or will be made or ald conflict with this assignment.							
LEGAL NAME OF I	NVENTOR							
Inventor: Benne	ett LANDMAN Date: 5/1/19							
Signature:	HA-							
Witness:	nilo Bernudez Noguera Date: 5/1/19							

COMBINATION ASSIGNMENT-STATEMENT

DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76) AND ASSIGNMENT FOR SINGLE ASSIGNEE IMAGE SEGMENTATION VIA MULTI-ATLAS FUSION WITH CONTEXT LEARNING Title of Invention: **DECLARATION** As a below named inventor I hereby declare that: - This declaration is directed to: ☐ The attached application, or X United States application or PCT international application number 15/540,487 filed on June 28, 2017. - The above-identified application was made or authorized to be made by me. - I believe that I am the original inventor or an original joint inventor of a claimed invention in the application. - I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 USC 1001 by fine or imprisonment of not more than five (5) years, or both. **ASSIGNMENT** WHEREAS, Vanderbilt University having an office and place of business at 305 Kirkland Hall, 2201 West End Avenue, Nashville, Tennessee, 37240, USA, is desirous of acquiring the entire interest in the same; **NOW, THEREFORE**, for good and valuable consideration, as described in the Policy on Technology and Literary and Artistic Works, published in the 1993-1994 Vanderbilt Faculty Manual, as such policy is amended from time to time, the sufficiency and adequacy and receipt of which are hereby acknowledged, I, the INVENTOR, agree to assign and hereby do sell, assign and transfer unto said VANDERBILT UNIVERSITY the entire right, title and interest in and to said invention and application throughout the world, including, without limitation, any Letters Patent which may issue thereon, and any subsequent application claiming priority to the above-identified application, reissue, reexamination, divisional, continuation-in-part, extension or continuation thereof and all rights of priority under the Paris Convention arising from said application, and all other rights in the INVENTION possessed by the INVENTOR, including the right to bring suit for damages due to past infringements; the same for VANDERBILT UNIVERSITY'S legal representatives and assigns, as fully and entirely as the same would have been held by us had this assignment and sale not been made: AND, I hereby bind myself, my heirs, legal representatives, administrators and assign properly to execute without further consideration any and all applications, petitions, oaths and assignments or other papers and instruments which may be necessary in order to carry into full force and effect, the sale, assignment, transfer and conveyance hereby made or intended to be made and generally do everything possible to aid VANDERBILT UNIVERSITY, its legal representatives and assigns, to obtain and enforce proper protection for said invention in all countries throughout the world: AND, I hereby covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment. LEGAL NAME OF INVENTOR 05/13/2019 Date: Inventor: Mayur PATEL Control of the second Signature: Witness: Anna K. Person Date: 05/13/2019

Signature:

Anomey Desket No.: YU-924109 US PCX VU Reference No.: YU15093US1

ENT-STATEMENT

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DEC	CARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION CATION DATA SHEET (37 CFR 1.76) AND ASSIGNMENT FOR SINGLE ASSIGNEE CATION DATA SHEET (37 CFR 1.76) AND ASSIGNMENT FOR SINGLE ASSIGNEE CATION DATA SHEET (37 CFR 1.76) AND ASSIGNMENT FOR SINGLE ASSIGNEE CATION DATA SHEET (37 CFR 1.76) AND ASSIGNMENT FOR SINGLE ASSIGNEE					
USING AN APPLI	CATION DATA ON THE CONTEXT LEARNING					
Title of Invention:	CATION DATA SHEET (37 CFR 1.76) AND					
	DECLARATION					
As a below named invi	entor I hereby declare that:					
- This declaration The a	nached application, or Sister application or PCT international application number 15/540/467 theo or continued in the second se					
The above-identified application was made or authorized to be made by me. The above-identified application was made or authorized to be made by me. I believe that I am the original inventor or an original joint inventor of a claimed invention in the e. I believe that I am the original inventor or an original joint inventor of a claimed invention in the e. I hereby acknowledge that any willful false statement made in this declaration is punishable under the latest that I am the original inventor or an original joint inventor of a claimed invention in the e. I hereby acknowledge that any willful false statement made in this declaration is punishable under the latest that I am the original inventor or an original joint inventor of a claimed invention in the e.						
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LEGAL NAN	4E OF INVENTOR	5/30/19	
Inventor	Andrew PLASSARD	Date:	~
Signature.	1,00	1 1.0	
Witness:	Enily Kilause	Date: 5/30/17	
Signature:	<u> Endi Delay</u>		

COMBINATION ASSIGNMENT-STATEMENT

DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76) AND ASSIGNMENT FOR SINGLE ASSIGNEE IMAGE SEGMENTATION VIA MULTI-ATLAS FUSION WITH CONTEXT LEARNING Title of Invention: **DECLARATION** As a below named inventor I hereby declare that: - This declaration is directed to: ☐ The attached application, or X United States application or PCT international application number 15/540,487 filed on June 28, 2017. - The above-identified application was made or authorized to be made by me. - I believe that I am the original inventor or an original joint inventor of a claimed invention in the application. - I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 USC 1001 by fine or imprisonment of not more than five (5) years, or both. **ASSIGNMENT** WHEREAS, Vanderbilt University having an office and place of business at 305 Kirkland Hall, 2201 West End Avenue, Nashville, Tennessee, 37240, USA, is desirous of acquiring the entire interest in the same; **NOW, THEREFORE**, for good and valuable consideration, as described in the Policy on Technology and Literary and Artistic Works, published in the 1993-1994 Vanderbilt Faculty Manual, as such policy is amended from time to time, the sufficiency and adequacy and receipt of which are hereby acknowledged, I, the INVENTOR, agree to assign and hereby do sell, assign and transfer unto said VANDERBILT UNIVERSITY the entire right, title and interest in and to said invention and application throughout the world, including, without limitation, any Letters Patent which may issue thereon, and any subsequent application claiming priority to the above-identified application, reissue, reexamination, divisional, continuation-in-part, extension or continuation thereof and all rights of priority under the Paris Convention arising from said application, and all other rights in the INVENTION possessed by the INVENTOR, including the right to bring suit for damages due to past infringements; the same for VANDERBILT UNIVERSITY'S legal representatives and assigns, as fully and entirely as the same would have been held by us had this assignment and sale not been made: AND, I hereby bind myself, my heirs, legal representatives, administrators and assign properly to execute without further consideration any and all applications, petitions, oaths and assignments or other papers and instruments which may be necessary in order to carry into full force and effect, the sale, assignment, transfer and conveyance hereby made or intended to be made and generally do everything possible to aid VANDERBILT UNIVERSITY, its legal representatives and assigns, to obtain and enforce proper protection for said invention in all countries throughout the world; AND, I hereby covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment. LEGAL NAME OF INVENTOR Date: 6-17-2019 Inventor: Benjamin POULOSE Signature: Witness: Tom Trofino Date: 6/17/19

Signature: Tom Trolino

Attorney Docket No.: VU-024109 US PCT VU Reference No.: VU15093US1

COMBINATION ASSIGNMENT-STATEMENT

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Witness: Roderick Smith

Signature:

Roderick Smith

PATENT REEL: 049641 FRAME: 0738

Date:

COMBINATION ASSIGNMENT-STATEMENT

DECLARATION (37 CFR 1.63) FOR UTILITY OR DESIGN APPLICATION USING AN APPLICATION DATA SHEET (37 CFR 1.76) AND ASSIGNMENT FOR SINGLE ASSIGNEE	
Title of Invention:	IMAGE SEGMENTATION VIA MULTI-ATLAS FUSION WITH CONTEXT LEARNING
<u>DECLARATION</u>	
As a below named inventor I hereby declare that:	
 This declaration is directed to: ☐ The attached application, or X United States application or PCT international application number 15/540.487 filed on June 28, 2017. 	
 The above-identified application was made or authorized to be made by me. I believe that I am the original inventor or an original joint inventor of a claimed invention in the application. I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 USC 1001 by fine or imprisonment of not more than five (5) years, or both. 	
	ASSIGNMENT
WHEREAS, <u>Vanderbilt University</u> having an office and place of business at <u>305 Kirkland Hall</u> , <u>2201 West End Avenue</u> , <u>Nashville</u> , <u>Tennessee</u> , <u>37240</u> , <u>USA</u> , is desirous of acquiring the entire interest in the same;	
NOW, THEREFORE, for good and valuable consideration, as described in the Policy on Technology and Literary and Artistic Works, published in the 1993-1994 Vanderbilt Faculty Manual, as such policy is amended from time to time, the sufficiency and adequacy and receipt of which are hereby acknowledged, I, the INVENTOR, agree to assign and hereby do sell, assign and transfer unto said VANDERBILT UNIVERSITY the entire right, title and interest in and to said invention and application throughout the world, including, without limitation, any Letters Patent which may issue thereon, and any subsequent application claiming priority to the above-identified application, reissue, reexamination, divisional, continuation-in-part, extension or continuation thereof and all rights of priority under the Paris Convention arising from said application, and all other rights in the INVENTION possessed by the INVENTOR, including the right to bring suit for damages due to past infringements; the same for VANDERBILT UNIVERSITY'S legal representatives and assigns, as fully and entirely as the same would have been held by us had this assignment and sale not been made;	
AND, I hereby bind myself, my heirs, legal representatives, administrators and assign properly to execute without further consideration any and all applications, petitions, oaths and assignments or other papers and instruments which may be necessary in order to carry into full force and effect, the sale, assignment, transfer and conveyance hereby made or intended to be made and generally do everything possible to aid VANDERBILT UNIVERSITY, its legal representatives and assigns, to obtain and enforce proper protection for said invention in all countries throughout the world;	
AND, I hereby covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.	
LEGAL NAME OF	INVENTOR
Inventor: Zho	ubing XU Date: 5/1/2019
Signature:	To the second of
Witness:	ing Wang Date: \$\frac{1}{7/2019}
Cremature.	1-447.00

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