## 505900494 02/05/2020

# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5947195

SUBMISSION TYPE:	CORRECTIVE ASSIGNMENT
NATURE OF CONVEYANCE:	Corrective Assignment to correct the CONVEYING PARTY DATA previously recorded on Reel 051668 Frame 0806. Assignor(s) hereby confirms the ASSIGNMENT.

#### **CONVEYING PARTY DATA**

Name	Execution Date
ANDREW STERNBERG	09/20/2019
RONALD SCHRIMPF	01/29/2020
ROBERT REED	11/20/2019

#### **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:	16481773

#### **CORRESPONDENCE DATA**

**Fax Number:** (312)977-4405

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:** 3129774400

**Email:** drdurham@nixonpeabody.com

Correspondent Name: NIXON PEABODY LLP

Address Line 1: 70 WEST MADISON STREET

Address Line 2: SUITE 3500

Address Line 4: CHICAGO, ILLINOIS 60602-4224

ATTORNEY DOCKET NUMBER:	077415-017130USPX
NAME OF SUBMITTER:	JOHN C. GATZ
SIGNATURE:	/John C. Gatz/
DATE SIGNED:	02/05/2020
	This document serves as an Oath/Declaration (37 CFR 1.63).

PATENT REEL: 051817 FRAME: 0325

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# **Total Attachments: 4**

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PATENT REEL: 051817 FRAME: 0326

## 505890514 01/30/2020

# **PATENT ASSIGNMENT COVER SHEET**

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5937215

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

### **CONVEYING PARTY DATA**

Name	Execution Date
ANDREW STERNBERG	09/20/2019
RONDALD SCHRIMPF	01/29/2020
ROBERT REED	11/20/2019

### **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:	16481773

### **CORRESPONDENCE DATA**

**Fax Number:** (312)977-4405

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: 3129774400

Email: drdurham@nixonpeabody.com

Correspondent Name: NIXON PEABODY LLP

Address Line 1: 70 WEST MADISON STREET

Address Line 2: SUITE 3500

Address Line 4: CHICAGO, ILLINOIS 60602-4224

ATTORNEY DOCKET NUMBER:	077415-017130USPX
NAME OF SUBMITTER:	JOHN C. GATZ
SIGNATURE:	/John C. Gatz/
DATE SIGNED:	01/30/2020
	This document serves as an Oath/Declaration (37 CFR 1.63).

**Total Attachments: 3** 

PATENT REEL: 051817 FRAME: 0327

Attorney Docket No.: 077415-017130USPX

VU Reference No.: VU17130US1

## 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:	Efficient Laser-Induced Single-Event Latchup and Methods of Operation	
	DECLARATION	
As a below named inve	ntor I hereby declare that:	
<ul> <li>This declaration is directed to:</li> <li>☐ The attached application, or</li> <li>☑ United States application or PCT international application number 16/481,773 filed on July 29, 2019.</li> </ul>		
<ul> <li>The above-identified application was made or authorized to be made by me.</li> <li>I believe that I am the original inventor or an original joint inventor of a claimed invention in the application.</li> <li>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.</li> </ul>		
	<u>ASSIGNMENT</u>	
WHEREAS, Y End Avenue, Nashvill	/anderbilt 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 suffici assign and hereby do sa interest in and to said in which may issue therec reexamination, division Paris Convention arisin including the right to b	EFORE, for good and valuable consideration, as described in the Policy on Technology and orks, published in the 1993-1994 Vanderbilt Faculty Manual, as such policy is amended from ency 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 evention 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 g from said application, and all other rights in said invention possessed by the INVENTOR, ring suit for damages due to past infringements; the same for VANDERBILT UNIVERSITY'S d assigns, as fully and entirely as the same would have been held by me had this assignment and	
AND, I hereby bind myself, my heirs, legal representatives, administrators and assigns properly to execute 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, within reason, 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 entered into which wor	covenant that no assignment, sale, agreement or encumbrance has been or will be made or kill conflict with this assignment.	
LEGAL NAME OF I	VVENTOR	
Inventor: Andre	w Sternberg Date: 9/20/9	
Witness: 1	nnis Ball Date: 9/20/2019	

Attorney Docket No.: 077415-017130USFX

VU Reference No.: VU17130US1

COMBINATION ASSIGNMENT-STATEMENT	
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	DECLARATION
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8	on is directed to: ttached application, or d States application or PCT international application number 16/481,773 filed on July 29, 2019.
<ul> <li>I believe that</li> <li>I hereby acknowledge</li> </ul>	entified application was made or authorized to be made by me.  I am the original inventor or an original joint inventor of a claimed invention in the application, owledge that any willful false statement made in this declaration is punishable under 18 USC or imprisonment of not more than five (5) years, or both.
	ASSIGNMENT
	Vanderbilt University having an office and place of business at 305 Kirkland Hall, 2201 West le, 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 there reexamination, division Paris Convention arisin including the right to be	REFORE, 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 ing from said application, and all other rights in said invention possessed by the INVENTOR, wring 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 me had this assignment and
AND, I hereby bind myself, my heirs, legal representatives, administrators and assigns 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 hereb 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;	
	y covenant that no assignment, sale, agreement or encumbrance has been or will be made or uld conflict with this assignment.
LEGAL NAME OF I	NVENTOR , ,
Inventor: Ronal	id Schrimpf Date: 1/29/20
Signature: 500	0 V V V X X X X X X X X X X X X X X X X

Signature:

PATENT REEL: 051817 FRAME: 0329

Attorney Docket No.: 077415-017130USPX

VU Reference No.: VU17130US1

# COMBINATION ASSIGNMENT-STATEMENT

Title of Invention:	Efficient Laser-Induced Single-Event Latchup and Methods of Operation
**************************************	DECLARATION
As a below named in	ventor I hereby declare that:
☐ The	tion is directed to: attached application, or ed States application or PCT international application number 16/481,773 filed on July 29, 2019.
<ul><li>I believe that</li><li>I hereby ack</li></ul>	dentified application was made or authorized to be made by me.  I am the original inventor or an original joint inventor of a claimed invention in the application.  nowledge that any willful false statement made in this declaration is punishable under 18 USC or imprisonment of not more than five (5) years, or both.
	<u>ASSIGNMENT</u>
	<u>Vanderbilt University</u> having an office and place of business at 305 Kirkland Hall, 2201 Wes ille, Tennessee, 37240, USA, is desirous of acquiring the entire interest in the same;
Literary and Artistic ' time to time, the suffi assign and hereby do interest in and to said	REFORE, for good and valuable consideration, as described in the Policy on Technology and Works, published in the 1993-1994 Vanderbilt Faculty Manual, as such policy is amended from iciency and adequacy and receipt of which are hereby acknowledged, I, the INVENTOR, agree t sell, assign and transfer unto said VANDERBILT UNIVERSITY the entire right, title and invention and application throughout the world, including, without limitation, any Letters Patent
Literary and Artistic ' time to time, the suffinessign and hereby do interest in and to said which may issue there examination, division aris including the right to	Works, published in the 1993-1994 Vanderbilt Faculty Manual, as such policy is amended from ciency and adequacy and receipt of which are hereby acknowledged, I, the INVENTOR, agree t sell, assign and transfer unto said VANDERBILT UNIVERSITY the entire right, title and
Literary and Artistic Lime to time, the suffinessign and hereby do interest in and to said which may issue there examination, divisionaris Convention arisincluding the right to legal representatives as ale not been made;  AND, I here without further considuation may be necessionade or intended to be	Works, published in the 1993-1994 Vanderbilt Faculty Manual, as such policy is amended from iciency and adequacy and receipt of which are hereby acknowledged, I, the INVENTOR, agree t sell, assign and transfer unto said VANDERBILT UNIVERSITY the entire right, title and invention and application throughout the world, including, without limitation, any Letters Patent eon, and any subsequent application claiming priority to the above-identified application, reissue onal, continuation-in-part, extension or continuation thereof and all rights of priority under the sing from said application, and all other rights in said invention possessed by the INVENTOR, bring suit for damages due to past infringements; the same for VANDERBILT UNIVERSITY?
Literary and Artistic lime to time, the suffine sign and hereby do nterest in and to said which may issue there examination, divisionaris Convention arisincluding the right to egal representatives ale not been made;  AND, I here without further considuation may be necessariade or intended to be representatives and as world;  AND, I here	Works, published in the 1993-1994 Vanderbilt Faculty Manual, as such policy is amended from iciency and adequacy and receipt of which are hereby acknowledged, I, the INVENTOR, agree to sell, assign and transfer unto said VANDERBILT UNIVERSITY the entire right, title and invention and application throughout the world, including, without limitation, any Letters Patent econ, 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 sing from said application, and all other rights in said invention possessed by the INVENTOR, bring suit for damages due to past infringements; the same for VANDERBILT UNIVERSITY and assigns, as fully and entirely as the same would have been held by me had this assignment and by bind myself, my heirs, legal representatives, administrators and assigns properly to execute deration any and all applications, petitions, oaths and assignments or other papers and instrument ary in order to carry into full force and effect, the sale, assignment, transfer and conveyance here made and generally do everything possible to aid VANDERBILT UNIVERSITY, its legal
Literary and Artistic ime to time, the suffine to time, the suffinessign and hereby do interest in and to said which may issue there examination, divisionaris Convention aris including the right to egal representatives ale not been made;  AND, I here without further considuated or intended to be representatives and as world;  AND, I here	Works, published in the 1993-1994 Vanderbilt Faculty Manual, as such policy is amended from iciency and adequacy and receipt of which are hereby acknowledged, I, the INVENTOR, agree to sell, assign and transfer unto said VANDERBILT UNIVERSITY the entire right, title and invention and application throughout the world, including, without limitation, any Letters Patent eon, and any subsequent application claiming priority to the above-identified application, reissue onal, continuation-in-part, extension or continuation thereof and all rights of priority under the sing from said application, and all other rights in said invention possessed by the INVENTOR, bring suit for damages due to past infringements; the same for VANDERBILT UNIVERSITY? and assigns, as fully and entirely as the same would have been held by me had this assignment and by bind myself, my heirs, legal representatives, administrators and assigns properly to execute deration any and all applications, petitions, oaths and assignments or other papers and instrument are in order to carry into full force and effect, the sale, assignment, transfer and conveyance here we made and generally do everything possible to aid VANDERBILT UNIVERSITY, its legal esigns, to obtain and enforce proper protection for said invention in all countries throughout the by covenant that no assignment, sale, agreement or encumbrance has been or will be made or build conflict with this assignment.
citerary and Artistic ime to time, the suffine to time, the suffinessign and hereby do nterest in and to said which may issue there examination, divisional convention aristic convention aristic convention aristic convention aristic convention aristic convention and control cont	Works, published in the 1993-1994 Vanderbilt Faculty Manual, as such policy is amended from iciency and adequacy and receipt of which are hereby acknowledged, I, the INVENTOR, agree to sell, assign and transfer unto said VANDERBILT UNIVERSITY the entire right, title and invention and application throughout the world, including, without limitation, any Letters Patent eon, and any subsequent application claiming priority to the above-identified application, reissue onal, continuation-in-part, extension or continuation thereof and all rights of priority under the sing from said application, and all other rights in said invention possessed by the INVENTOR, bring suit for damages due to past infringements; the same for VANDERBILT UNIVERSITY? and assigns, as fully and entirely as the same would have been held by me had this assignment and by bind myself, my heirs, legal representatives, administrators and assigns properly to execute deration any and all applications, petitions, oaths and assignments or other papers and instrument are in order to carry into full force and effect, the sale, assignment, transfer and conveyance here we made and generally do everything possible to aid VANDERBILT UNIVERSITY, its legal esigns, to obtain and enforce proper protection for said invention in all countries throughout the by covenant that no assignment, sale, agreement or encumbrance has been or will be made or build conflict with this assignment.
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PATENT REEL: 051817 FRAME: 0330

**RECORDED: 02/05/2020**