505050058 08/14/2018

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5096812

SUBMISSION TYPE:		N	EW ASSIGNMENT				
NATURE OF CONVEYANCE:			ASSIGNMENT				
CONVEYING PARTY DA	ΔΤΑ	1					
	/ \	Na	me			Execution Da	te
RATNAKUMAR V KUMA	R					08/10/2018	
ANDREW KINDLER						08/11/2018	
THOMAS I VALDEZ						08/06/2018	
RECEIVING PARTY DA	ТА						
Name:		RNIA IN	NSTITUTE OF TECH	HNOLOGY			
Street Address:	1200 EA	AST CAI	LIFORNIA BOULEV	'ARD			
Internal Address:	MC 6-32	2					
City:	PASADE	ENA					
State/Country:	CALIFO	RNIA					
Postal Code:	91125						
PROPERTY NUMBERS Property Type		1464112	Number]		
Property Type Application Number:		1464116					
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Property Type Application Number: Application Number: CORRESPONDENCE D Fax Number: Correspondence will be using a fax number, if p Phone: Email: Correspondent Name: Address Line 1: Address Line 4: ATTORNEY DOCKET NUNAME OF SUBMITTER:	ATA ((e sent to provided; 7 a L 4 E	(312)616 <i>the e-n</i> <i>; if that</i> 7207957 assignm LEYDIG 4875 PE BOULDE 33 M.	68 6-5700 nail address first; in is unsuccessful, it 7976 eents@leydig.com, ts , VOIT & MAYER, L EARL EAST CIRCLE ER, COLORADO 80 33826: 4-15 US	t will be se sharp@leyc .TD. 5, SUITE 30 0301	nt via US dig.com		
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ASSIGNMENT

WHEREAS, I:

- 1. Ratnakumar V. BUGGA residing at 160 West Floral, Arcadia, California 91006, USA;
- 2. Andrew KINDLER residing at 616 Plymouth Rd., San Marino, California 91108; and
- 3. Thomas I. VALDEZ residing at 1659 E. Edgecomb St., Covina, California 91724

herein called individually an "ASSIGNOR" in connection with the invention entitled:

"SEPARATOR ENCLOSURES FOR ELECTRODES AND ELECTROCHEMICAL CELLS"

for which the following patent application(s):

Application Type	Application Serial No.	Filing Date
U.S. Patent Application	14/641,168	March 6, 2015
U.S. Provisional Patent Application	61/948,890	March 6, 2014

were submitted or filed (the "LISTED APPLICATIONS");

AND WHEREAS, California Institute of Technology (herein called "ASSIGNEE"), an entity organized and existing under the laws of the State of California, having a principal place of business at:

1200 East California Boulevard MC 6-32 Pasadena, California 91125 United States of America

is desirous of obtaining my entire right, title and interest in, to and under the said invention and the said LISTED APPLICATIONS;

Page 1 of 5

Atty Ref. 565368: 4-15 US Assignment

NOW, THEREFORE, in consideration of my contractual and other legal obligations, and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, I, a said ASSIGNOR, have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the said ASSIGNEE, its successors, legal representatives and assigns, my entire right, title and interest in, to and under the invention(s) and discoveries disclosed in the LISTED APPLICATIONS, and the LISTED APPLICATIONS and all divisions, renewals, continuations and subsequent applications thereof, and all Patents of the United States which may be granted thereon and all reissues and extensions thereof; and all applications for industrial property protection, including, without limitation, all applications for patents, utility models, and designs which may hereafter be filed for said invention(s) in any country or countries foreign to the United States; together with the right to file such applications and the right to claim for the same the priority of said patent applications listed herein and applications thereof and therefrom under The International Union for the Protection of Industrial Property, or any other international agreement or the domestic laws of the country in which any such application and applications thereof and therefrom is filed, as may be applicable; and all forms of industrial property protection, including, without limitation, patents, utility models, inventors' certificates and designs which may be granted for said invention(s) in any country or countries foreign to the United States and all extensions, renewals and reissues thereof:

AND I HEREBY authorize and request the Commissioner of Patents and Trademarks of the United States, and any official of any country or countries foreign to the United States whose duty it is to issue patents or other evidence or forms of industrial property protection on applications as aforesaid, to issue the same to the said ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument;

AND I HEREBY covenant and agree that I have full right to convey the entire interest herein assigned, and that I have not executed, and will not execute, any agreement in conflict herewith;

AND I HEREBY authorize the above-mentioned ASSIGNEE or its legal representative to insert in this instrument the filing date and serial number of said application(s) or any other information that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document;

AND I HEREBY further covenant and agree that I will communicate to the said ASSIGNEE, its successors, legal representatives and assigns, any facts known to me respecting said invention(s) and discoveries, and testify in any legal proceeding, sign all lawful papers, execute all continuing and subsequent applications, including divisional, reissue and foreign applications, make all rightful oaths, and generally cooperate and do everything possible to aid the said ASSIGNEE, its successors, legal representatives and assigns, to obtain, maintain, and enforce proper protection for said invention(s) and discoveries;

IN TESTIMONY WHEREOF, I hereunto set my hand and seal (if applicable) the day and year set opposite my signature.

Page 2 of 5

08 (10 18 Date	Ralezikum V Bagga
Date	Ratnakumar V. BUGGA
STATE OF CALIFORNIA)) ss.
On	, before me,, Name and Title of Officer (e.g. "Jane Doe, Notary Public")
× ×	Name(s) of Signer(s)
	personally known to me
	proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.
	WITNESS my hand and official seal.
Place Notary Seal Above	

Page 3 of 5

Date	Andrew KINDLER
STATE OF CALIFORNIA	» •
COUNTY OF) \$8.)
On, Date	before me,
personally appeared	Name(s) of Signer(s)
	personally known to me
	proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted,
.8 •	executed the instrument. WITNESS my hand and official seal.
Place Notary Seal Above	

Page 4 of 5

Date	Thomas I. VALDEZ
STATE OF CALIFORNIA)
COUNTY OF) \$\$.) ::
On	, before me,, Name and Title of Officer (e.g. "Jane Doe, Notary Public")
Date	Name and Title of Officer (e.g. "Jane Doe, Notary Public")
personally appeared	Name(s) of Signer(s)
	personally known to me
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	WITNESS my hand and official seal.
Place Notary Seal Above	

Page 5 of 5

ASSIGNMENT

WHEREAS, I:

- Ratnakumar V. BUGGA residing at 160 West Floral, Arcadia, California 91006, USA;
- 2. Andrew KINDLER residing at 616 Plymouth Rd., San Marino, California 91108; and
- 3. Thomas I. VALDEZ

residing at 108 Gorsuch Road, Timonium, MD, 21093

herein called individually an "ASSIGNOR" in connection with the invention entitled:

"SEPARATOR ENCLOSURES FOR ELECTRODES AND ELECTROCHEMICAL CELLS"

for which the following patent application(s):

Application Type	Application Serial No.	Filing Date
U.S. Patent Application	14/641,168	March 6, 2015
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AND WHEREAS, California Institute of Technology (herein called "ASSIGNEE"), an entity organized and existing under the laws of the State of California, having a principal place of business at:

1200 East California Boulevard MC 6-32 Pasadena, California 91125 United States of America

is desirous of obtaining my entire right, title and interest in, to and under the said invention and the said LISTED APPLICATIONS;

NOW, THEREFORE, in consideration of my contractual and other legal obligations, and other good and valuable consideration, the receipt and sufficiency of which are hereby

Page 1 of 5

acknowledged, I, a said ASSIGNOR, have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the said ASSIGNEE, its successors, legal representatives and assigns, my entire right, title and interest in, to and under the invention(s) and discoveries disclosed in the LISTED APPLICATIONS, and the LISTED APPLICATIONS and all divisions, renewals, continuations and subsequent applications thereof, and all Patents of the United States which may be granted thereon and all reissues and extensions thereof; and all applications for industrial property protection, including, without limitation, all applications for patents, utility models, and designs which may hereafter be filed for said invention(s) in any country or countries foreign to the United States: together with the right to file such applications and the right to claim for the same the priority of said patent applications listed herein and applications thereof and therefrom under The International Union for the Protection of Industrial Property, or any other international agreement or the domestic laws of the country in which any such application and applications thereof and therefrom is filed, as may be applicable; and all forms of industrial property protection, including, without limitation, patents, utility models, inventors' certificates and designs which may be granted for said invention(s) in any country or countries foreign to the United States and all extensions, renewals and reissues thereof:

AND I HEREBY authorize and request the Commissioner of Patents and Trademarks of the United States, and any official of any country or countries foreign to the United States whose duty it is to issue patents or other evidence or forms of industrial property protection on applications as aforesaid, to issue the same to the said ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument;

AND I HEREBY covenant and agree that I have full right to convey the entire interest herein assigned, and that I have not executed, and will not execute, any agreement in conflict herewith;

AND I HEREBY authorize the above-mentioned ASSIGNEE or its legal representative to insert in this instrument the filing date and serial number of said application(s) or any other information that may be necessary or desirable in order to comply with the rules of the United States Patent and Trademark Office for recordation of this document;

AND I HEREBY further covenant and agree that I will communicate to the said ASSIGNEE, its successors, legal representatives and assigns, any facts known to me respecting said invention(s) and discoveries, and testify in any legal proceeding, sign all lawful papers, execute all continuing and subsequent applications, including divisional, reissue and foreign applications, make all rightful oaths, and generally cooperate and do everything possible to aid the said ASSIGNEE, its successors, legal representatives and assigns, to obtain, maintain, and enforce proper protection for said invention(s) and discoveries in any and all countries;

IN TESTIMONY WHEREOF, I hereunto set my hand and seal (if applicable) the day and year set opposite my signature.

Page 2 of 5

Date	Ratnakumar V. BUGGA
STATE OF CALIFORNIA)) ss.)
On Dale	, before me,, Name and Title of Officer (e.g. "Jane Doe, Notary Public")
personally appeared	Name(s) of Signer(s)
	personally known to me
	proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.
	WITNESS my hand and official seal.
Place Notary Seal Above	

Page 3 of 5 PATENT REEL: 046820 FRAME: 0705 Atty Ref. 565368: 4-15 US Assignment

2/11/18 Date

- Kindle

Andrew KINDLER

STATE OF CALIFORNIA

COUNTY OF _____ 3

On ______, before me, _____, Date Name and Title of Officer (e.g. "Jane Doe, Notary Public")

personally appeared

Name(s) of Signer(s)

) ss.

personally known to me

proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(les), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

Place Notary Seal Above

Additional Assignors on additional sheets: YES

Page 4 of 5

Date	Thomas I. VALDEZ
STATE OF CALIFORNIA)) ss.
COUNTY OF	, , , , , , , , , , , , , , , , , , ,
On	, before me,, Name and Title of Officer (e.g. "Jane Doe, Notary Public")
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Page 2 of 5

Date	Ratnakumar V. BUGGA
STATE OF CALIFORNIA COUNTY OF))ss.
	, before me,, Name and Title of Officer (e.g. "Jane Dos, Notary Public")
	Name(s) of Signer(s)
	personally known to me
	proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.
	WITNESS my hand and official seal.
Place Notary Seal Above	

Page 3 of 5 PATENT REEL: 046820 FRAME: 0710

Date	Andrew KINDLER
STATE OF CALIFORNIA)) ss.
COUNTY OF	
On	, before me,, Name and Title of Officer (e.g. *Jane Doe, Notary Public*)
	Name(s) of Signer(s)
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Page 4 of 5

<u>\$/6//K</u> Date	Thomas I. VALDEZ
STATE OF CALIFORNIA)) ss.)
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PATENT REEL: 046820 FRAME: 0712

RECORDED: 08/14/2018