506753002 07/07/2021 PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT6799819

SUBMISSION TYPE:		NEW ASSIGNMENT		
NATURE OF CONVEYANCE:		ASSIGNMENT	ASSIGNMENT	
CONVEYING PARTY DA	ATA			
		Name	Execution Date	
MARK C. HERSAM			03/06/2018	
ETHAN B. SECOR			03/20/2018	
KAN-SHENG CHEN			03/26/2018	
RECEIVING PARTY DA	ТА			
Name:	NORTHWESTERN UNIVERSITY			
Street Address:	633 CLARK STREET			
City:	EVANSTON			
State/Country:	ILLINOIS			
Postal Code:	60208			
Application Number:	1	7369058		
Property Type Application Number:	1	Number		
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		7309030		
CORRESPONDENCE DA		7309030		
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PATENT REEL: 056773 FRAME: 0853

ASSIGNMENT

U.S. Serial No: 15/906,776 Filing Date: February 27, 2018 Inventors: Mark C. Hersam; Ethan B. Secor; Kan-sheng Chen Title of U.S. Patent Application: Nanostructured Lithium-Ion Battery Electrode Composite Materials via Conformal Graphene Dispersion

For good and valuable consideration, the receipt and sufficiency of which are hereby agreed, each of the undersigned hereby assigns to Northwestern University, an Illinois not-for-profit corporation, having a place of business at 633 Clark Street, Evanston, Illinois 60208 and its successors and assigns ("Assignee") the entire right, title and interest in and to the inventions of such undersigned disclosed in the application listed above, and in any and all other applications anywhere in the world which the undersigned may file and/or be named as an inventor of, solely or jointly, on said inventions, in any and all patents which may be obtained on any of said applications and in any and all reissues, reexaminations, supplemental examinations, inter partes reviews, oppositions, post-grant reviews, supplementary protection certificates and/or seek other remedies for the past, present and future infringement of any of the foregoing, the right of priority, including without limitation to claim priority benefit of or to said patent applications, and request the Commissioner for Patents in the United States and similar authorities outside the United States to issue said patents to and in the name of the Assignee.

Each of the undersigned states that the application listed above is or was made or authorized to be made by him or her. Each of the undersigned believes himself or herself to be the original inventor or a joint inventor with another undersigned of a claimed invention in the application listed above. Each of the undersigned acknowledges that any willful false statement made by him or her in this paragraph is punishable under 18 U.S.C. §1001 by fine or imprisonment of not more than five years, or both.

Except in favor of Assignee, each of the undersigned warrants that: (i) he or she is the owner of all its rights, titles and interests herein assigned and has the right to make this unconditional and irrevocable assignment to Assignee without obtaining any approval or permission of a third party; and (ii) there are no outstanding encumbrances, liens, prior assignments, licenses, or other obligations or restrictions on the rights, titles and interests herein assigned.

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Upon the request of Assignce and at no expense to the undersigned, each of the undersigned hereby agrees to execute any and all applications on said inventions, including without limitation for the reissue, reexamination, supplementary protection certificate or extension thereof and any oath, declaration or affidavit relating thereto that said Assignce may deem necessary or expedient, and to cooperate to the best of the ability of the undersigned with and perform any and all affirmative acts requested by Assignee to prepare, file, prosecute, maintain, defend, enforce and vest in Assignce the rights, titles and interests assigned herein, including without limitation, preparing and executing statements and giving and producing evidence in support thereof, whereby said rights, titles and interests will be held and enjoyed by said Assignce to the full end of the term for which said patents may be granted as fully and entirely as the same would have been held and enjoyed by the undersigned if this assignment had not been made.

Undersigned (ASSIGNORS):

316/18 DATE

S\$,

Inventor Name: Mark C. Hersam

State of <u>JULIANIS</u>

County of Cach

674 On this day of Mana 2019, before me, a Notary Public in and for the County and State aforesaid, appeared, to me personally known to be the same person whose name is subscribed to the foregoing instrument, and acknowledged that he or she executed said instrument as his or her free and voluntary act and for the uses and purposes therein expressed.

ERIC ROBERT EISSLER OFFICIAL SEAL Notary Public, State of lilingia y Commission Expires (L)February 02, 2021

NOTARY PUBLIC

My Commission Expires: 2/02/ 2021

(Continued on next page)

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PATENT REEL: 056773 FRAME: 0855

U.S. Serial No: 15/906,776 Filing Date: February 27, 2018 Inventors: Mark C. Hersam; Ethan B. Secor; Kan-sheng Chen Title of U.S. Patent Application: Nanostructured Lithium-Ion Battery Electrode Composite Materials via **Conformal Graphene Dispersion**

Undersigned (ASSIGNORS) continued:

3/20/2018

Inventor Nagas: Ethan B. Secor

DATE

State of April Moxico 88.

County of Sanalillo

On this ______ day of _______ And the County and State aforesaid, appeared, to me personally known to be the same person whose name is subscribed to the foregoing instrument, and acknowledged that he or she executed said instrument as his or her free and voluntary act and for the uses and purposes therein expressed.

OFFICIAL SEAL Corina Vandeberg NOTARY PUBLIC late of NEW MEXICO ING

NOTARY PUBLIC My Commission Expires: 5,200 (

Page 3 of S

U.S. Serial No: 15/906,776 Filing Date: February 27, 2018 Inventors: Mark C. Hersam; Ethan B. Secor; Kan-sheng Chen Title of U.S. Patent Application: Nanostructured Lithium-Ion Battery Electrode Composite Materials via **Conformal Graphene Dispersion**

Undersigned (ASSIGNORS) continued:

03/26/2018 Wast In

Inventor Name: Kass-sheng Chen

DATE

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the bulkkiness, soursey, or validity of that document.

State of <u>California</u>, ss. County of <u>Alameda</u>,

255 day of <u>March</u> On this _____ day of _____, 2013, before me, a Notary Public in and for the County and State aforesaid, appeared, to me personally known to be the same person whose name is subscribed to the foregoing instrument, and acknowledged tha (he)or also executed said instrument aghis or her free and voluntary act and for the uses and purposes therein expressed.

et apalanci

NOTARY PUBLIC

[NOTARY SEAL]

My Commission Expires: Da. c 17, 2021



PATENT REEL: 056773 FRAME: 0857

U.S. Serial No: 15/906,776 Filing Date: February 27, 2018 Inventors: Mark C. Nersam; Ethan R. Secor; Kan-shang Chen Title of U.S. Patent Application: Nanostructured Lithium-Ion Battery Electrode Composite Materials via Conformal Graphene Dispersion

ASSIGNEE ACCEPTANCE: Northwestern University:

On behalf of Northwestern University, Assignee, the authorized signatory below, hereby confirms Assignee's acceptance of all rights, privileges, titles and interests conveyed by this Assignment.

Wh <u>Arm</u> _____ Date: <u>4/3//</u>7 Authorized Signature: /

Printed Name

Lolita Buckingham, Invention Specialist or Heather Fletcher, Manager of INVO Docketing & Compliance

Department: Innovation and New Ventures Office (INVO)

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PATENT REEL: 056773 FRAME: 0858

RECORDED: 07/07/2021