504227335 02/14/2017

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE: NEW ASSIGNMENT NATURE OF CONVEYANCE: ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
SUKUMAR KAMALASADAN	02/04/2017
SHERIF ABDELMAGEED ABDELRAZEK	02/10/2017
JOHAN H.R. ENSLIN	02/06/2017

RECEIVING PARTY DATA

Name:	UNIVERSITY OF NORTH CAROLINA AT CHARLOTTE
Street Address:	9201 UNIVERSITY CITY BOULEVARD
City:	CHARLOTTE
State/Country:	NORTH CAROLINA
Postal Code:	28223

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15370464

CORRESPONDENCE DATA

Fax Number: (704)366-9744

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: 704-790-3600

Email: patlaw@worldpatents.com

CLEMENTS BERNARD WALKER PLLC **Correspondent Name:** Address Line 1: 4500 CAMERON VALLEY PARKWAY

Address Line 2: SUITE 350

Address Line 4: CHARLOTTE, NORTH CAROLINA 28211

ATTORNEY DOCKET NUMBER:	14-016CIP
NAME OF SUBMITTER:	CHRISTOPHER L. BERNARD
SIGNATURE:	/Christopher L. Bernard/
DATE SIGNED:	02/14/2017

Total Attachments: 3

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> **PATENT REEL: 041252 FRAME: 0833** 504227335

Attorney Docket No.: 14-016CIP PATENT

ASSIGNMENT

WHEREAS, Sukumar KAMALASADAN, Sherif Abdelmageed ABDELRAZEK, and Johan H.R. ENSLIN (hereinafter referred to as "ASSIGNORS") have invented certain new and useful improvements in an invention entitled:

BATTERY ENERGY STORAGE SYSTEM CONTROLLER SYSTEMS AND METHODS

for which an application for a United States patent is being submitted to the United States Patent and Trademark Office herewith; and

WHEREAS, UNIVERSITY OF NORTH CAROLINA AT CHARLOTTE, 9201 University City Boulevard, Charlotte, North Carolina 28223 USA (hereinafter referred to as "ASSIGNEE") is desirous of acquiring the entire right, title, and interest in and to said invention, and in and to said application and any Letters Patent that may issue thereon;

NOW, THEREFORE, in accordance with obligations entered into pursuant to an Employment Agreement or other agreement and/or for other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, ASSIGNORS hereby sell, transfer and assign to said ASSIGNEE, and to ASSIGNEE'S successors and assigns, ASSIGNORS' entire right, title, and interest in and to said invention and improvements invented and originated by ASSIGNORS in the United States and its territorial possessions and in any and all foreign countries and to all Letters Patent or similar legal protections in the United States and its territorial possessions and in any and all foreign countries to be obtained for said invention by said application or any application claiming priority to/from the application, or any continuation, division, continuation-in-part, reexamination, renewal, substitute, extension, or reissue thereof or any legal equivalent thereof in a foreign country for the full term(s) for which the same may be granted; and authorize and request the Commissioner for Patents of the United States and any official of any foreign country whose duty it is to issue patents or legal equivalents thereof, to issue same for this invention to ASSIGNEE, its lawful successors and assigns.

ASSIGNORS further covenant that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention, said application, and said Letters Patent and legal equivalents thereof in foreign countries as may be known and accessible to ASSIGNORS and will testify as to the same in any administrative proceeding or litigation related thereto and will promptly execute and deliver to ASSIGNEE or its legal representative any and all papers, instruments, or affidavits required to apply for, obtain, maintain, issue, and/or enforce said invention, said application, and said Letters Patent and legal equivalents thereof in foreign countries which may be necessary or desirable to carry out the purposes thereof.

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IN	WITNESS WHEREOF, we have hereunt	to set hand and signed	on the date indicated
below:	Briel	Date:	02/04/17
Sukuma	r KAMAKASADAN		
		Date:	
Sherif A	bdelmageed ABDELRAZEK		
		Date:	
Johan H	.R. ENSLIN		

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ASSIGNMENT

WHEREAS, Sherif Abdelmageed ABDELRAZEK, Sukumar KAMALASADAN, and Johan H.R. ENSLIN (hereinafter referred to as "ASSIGNORS") have invented certain new and useful improvements in an invention entitled:

BATTERY ENERGY STORAGE SYSTEM CONTROLLER SYSTEMS AND METHODS

for which an application for a United States patent is being submitted to the United States Patent and Trademark Office herewith; and

WHEREAS, UNIVERSITY OF NORTH CAROLINA AT CHARLOTTE, 9201 University City Boulevard, Charlotte, North Carolina 28223 USA (hereinafter referred to as "ASSIGNEE") is desirous of acquiring the entire right, title, and interest in and to said invention, and in and to said application and any Letters Patent that may issue thereon;

NOW, THEREFORE, in accordance with obligations entered into pursuant to an Employment Agreement or other agreement and/or for other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, ASSIGNORS hereby sell, transfer and assign to said ASSIGNEE, and to ASSIGNEE'S successors and assigns, ASSIGNORS' entire right, title, and interest in and to said invention and improvements invented and originated by ASSIGNORS in the United States and its territorial possessions and in any and all foreign countries and to all Letters Patent or similar legal protections in the United States and its territorial possessions and in any and all foreign countries to be obtained for said invention by said application or any application claiming priority to/from the application, or any continuation, division, continuation-in-part, reexamination, renewal, substitute, extension, or reissue thereof or any legal equivalent thereof in a foreign country for the full term(s) for which the same may be granted; and authorize and request the Commissioner for Patents of the United States and any official of any foreign country whose duty it is to issue patents or legal equivalents thereof, to issue same for this invention to ASSIGNEE, its lawful successors and assigns.

ASSIGNORS further covenant that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention, said application, and said Letters Patent and legal equivalents thereof in foreign countries as may be known and accessible to ASSIGNORS and will testify as to the same in any administrative proceeding or litigation related thereto and will promptly execute and deliver to ASSIGNEE or its legal representative any and all papers, instruments, or affidavits required to apply for, obtain, maintain, issue, and/or enforce said invention, said application, and said Letters Patent and legal equivalents thereof in foreign countries which may be necessary or desirable to carry out the purposes thereof.

IN WITNESS WHEREOF, we have hereunto set h	and and signed on the date inc	licated
below:	Date: 7/10/20	ワ
Sherif Abdelmageed ABDELRAZEK		
	Date:	
Sukumar KAMALASADAN		
	Date:	
Johan H.R. ENSLIN		

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Attorney Docket No.: 14-016CIP PATENT

ASSIGNMENT

WHEREAS, Sukumar KAMALASADAN, Sherif Abdelmageed ABDELRAZEK, and Johan H.R. ENSLIN (hereinafter referred to as "ASSIGNORS") have invented certain new and useful improvements in an invention entitled:

BATTERY ENERGY STORAGE SYSTEM CONTROLLER SYSTEMS AND METHODS

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IN WITNESS WHEREOF, We have nereunto set	nand and signed on the date indicated Date:	i peiow
Sukumar KAMALASADAN		
	Date:	
Sherif Abdelmageed ABDELRAZEK		
Johan H.R. Enslin	Date: 2/6/2017	
Johan H.R. ENSLIN		

PATENT REEL: 041252 FRAME: 0836