505177588 11/06/2018

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
DANIEL A. BUTTRY	11/09/2016
TYLAN S. WATKINS	11/05/2016
JOSEPH RHEINHARDT	11/05/2016

RECEIVING PARTY DATA

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PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16181937

CORRESPONDENCE DATA

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ATTORNEY DOCKET NUMBER:	60980.05717
NAME OF SUBMITTER:	RYAN D. RICKS
SIGNATURE:	/Ryan D. Ricks/
DATE SIGNED:	11/06/2018

Total Attachments: 4

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PATENT REEL: 047424 FRAME: 0070

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> PATENT REEL: 047424 FRAME: 0071

ASSIGNMENT

WHEREAS, the undersigned inventor(s) (hereinafter singly and collectively, "ASSIGNOR") of the addresses indicated below, have invented subject matter disclosed and/or claimed in the PCT patent application entitled CHELATING IONIC LIQUIDS FOR MAGNESIUM BATTERY ELECTROLYTES AND SYSTEMS filed on October 31, 2016 and assigned PCT Application Serial No. PCT/US2016/059712;

AND WHEREAS, Arizona Board of Regents (hereinafter "ASSIGNEE") on behalf of Arizona State University, is desirous of memorializing its interest therein;

AND WHEREAS, a "formal application," as referred to herein, shall mean any provisional, non-provisional, continuation, continuation in part, divisional, reissue, reexamination, foreign, PCT or other patent application or like document;

NOW, THEREFORE, the undersigned ASSIGNOR hereby confirms that ASSIGNOR is an employee, past employee or a contractor of ASSIGNEE and/or that ASSIGNOR developed the subject matter of the inventions on ASSIGNEE's time or at the expense of ASSIGNEE or within the scope of ASSIGNOR's duties to ASSIGNEE and thereby ASSIGNOR recognizes that the ASSIGNEE owns the inventions as described in the aforesaid application. Nonetheless to comport with Patent Office procedures, ASSIGNOR memorializes that relationship in the form of this assignment; and

THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, ASSIGNOR by these presents does hereby sell, assign and transfer unto ASSIGNEE, its successors, assigns and legal representatives, the full and exclusive right to the inventions as described in the aforesaid application, including patent, copyright and any other intellectual property rights, any provisional, non-provisional, continuation, continuation in part, divisional, reissue, reexamination, foreign, PCT or other patent application or like document, or any other application which claims priority to said application, including the rights to sue for all past and future causes of action related to said inventions, in the United States and all foreign countries, together with the right of priority under the International Convention for the Protection of Industrial Property, Inter-American Convention Relating to Patents, Designs and Industrial Models, and any other international agreements to which the United States adheres, and hereby authorizes and requests the Commissioner of Patents to issue any Letters Patent issuing from or claiming priority to said application to ASSIGNEE, for the sole use and benefit of ASSIGNEE, its successors, assigns and legal representatives;

AND HEREBY transfers to ASSIGNEE, its successors, assigns and legal representatives, and without further remuneration, a like interest in and to any improvements, derivative works, and formal applications based thereon, growing out of or relating to the invention;

AGREEING, FURTHERMORE, without further remuneration, to provide all reasonable assistance and execute any papers requested by ASSIGNEE, its successors, assigns and legal representatives, to preserve and/or acquire ASSIGNEE's full protection and title in and to the inventions hereby transferred:

Serial No. PCT/US2016/059712 Docket No. 60980.05716 AGREEING, FURTHERMORE, upon request of ASSIGNEE, and without further remuneration, to execute any and all papers desired by ASSIGNEE for the filing and granting of formal applications based on the inventions or improvements therein, and for the filing and granting of foreign applications and the perfecting of title thereto in ASSIGNEE.

EXECUTED as of the date(s) written below by ASSIGNOR:

INVENTOR NAME	ADDRESS	SIGNATURE	DATE
Daniel A. Buttry	1049 E. Sandpiper Drive Tempe, AZ 85283	Den Clinto	1/9/2016
Tylan S. Watkins	11632 Terra Bella Ln SE Albuquerque, NM 87123		
Joseph Rheinhardt	1814 N. 12th St. Phoenix, AZ 85006		

EXECUTED as of the date(a) written below by ASSIGNOR.

INVENTORNAME	ADDRESS	SIGNATURE DATE	
Daniel A. Banry	1949 It Sundpoper Drive Design AZ SS SS		
Tylan S. Warkins	11612 Terro Bello La SE		
	Albaquerque, NM 87, 23		
	Print No. 12th N Photonic AZ 85000		

PATENT REEL: 047424 FRAME: 0074 AGREEING, FURTHERMORE, upon request of ASSIGNEE, and without further remuneration, to execute any and all papers desired by ASSIGNEE for the filing and granting of formal applications based on the inventions or improvements therein, and for the filing and granting of foreign applications and the perfecting of title thereto in ASSIGNEE.

EXECUTED as of the date(s) written below by ASSIGNOR:

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Daniel A. Buttry	1049 E. Sandpiper Drive Tempe, AZ 85283		
Tylan S. Watkins	11632 Terra Bella Ln SE Albuquerque, NM 87123		
Joseph Rheinhardt	1814 N. 12th St. Phoenix, AZ 85006		11/11/2016

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Serial No. PCT/US2016/059712 Docket No. 60980.05716

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