PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT4367566

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
BOR Z. JANG	04/13/2017

RECEIVING PARTY DATA

Name:	NANOTEK INSTRUMENTS, INC.
Street Address:	1240 MCCOOK AVE.
City:	DAYTON
State/Country:	OHIO
Postal Code:	45404

PROPERTY NUMBERS Total: 21

Property Type	Number
Application Number:	15440151
Application Number:	15442278
Application Number:	15442803
Application Number:	15442807
Application Number:	15449976
Application Number:	15450447
Application Number:	15454053
Application Number:	15463531
Application Number:	15463543
Application Number:	15463555
Application Number:	15466286
Application Number:	15468080
Application Number:	15470408
Application Number:	15475451
Application Number:	15475454
Application Number:	15483342
Application Number:	15483347
Application Number:	15483348
Application Number:	15484546
Application Number:	15485934

Property Type	Number
Application Number:	15478125

CORRESPONDENCE DATA

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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.

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NAME OF SUBMITTER:	CLAIRE A. RUTISER
SIGNATURE:	/Claire A. Rutiser Reg. No. 75734/
DATE SIGNED:	04/13/2017

Total Attachments: 5

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ASSIGNMENT

This Assignment Agreement is made and entered by and between Dr. Bor Z. Jang a citizen of USA, residing at 2301 E Social Row Rd, Centerville, OH 45458 (the "Assignor") and Nanotek Instruments, Inc., an Ohio corporation whose address is 1240 McCook Avenue, Dayton, OH 45404 (the "Assignee").

WHEREAS, Assignor is an inventor or co-inventor of certain new and useful inventions related to new materials, nano-scaled graphene plates, processes, energy technologies, and/or other technologies as more fully described herein (the "Inventions") and

WHEREAS, Assignee desires to acquire the entire right, title and interest in and to the Inventions.

NOW, THEREFORE, the parties agree as follows:

1. The term "Inventions" shall mean (1) the patents and patent applications listed in **Exhibit "A"** attached hereto, any application claiming priority therefrom, any non-provisionals, continuations, or divisions thereof, the inventions disclosed therein, any improvements thereon, and any patent or patents that may be issued or reissued thereon; (2) all know- how, trade secrets, discoveries, concepts, ideas, and technologies related to the same; (3) any and all copyrights, copyright registrations and copyrightable subject matter related to the same; and (4) any trademarks related to such patents and patent applications.

2. In consideration of the sum of one dollar ($1.00) and other good and valuable consideration, the receipt of which is acknowledged, the Assignor hereby assigns, transfers and conveys to Assignee all of Assignor's right, title and interest in and to (a) the Inventions, (b) any U.S. or foreign Patent which may issue from the Inventions, and (c) all divisions, continuations, reissues, re-examinations and extensions of the patents and applications listed on Exhibit A.

3. Assignor authorizes and requests the Commissioner of Patents and Trademarks to issue any patent which may issue from the Inventions to said Assignee, it successor and assigns; and authorizes said Assignee, its successors and assigns, to file in its own name applications for patent in foreign countries in connection with the Inventions hereby transferred, and to secure in its own name the patent or patents issued thereon.

4. Assignor further covenants and agrees that, upon request, Assignor will promptly provide Assignee with all pertinent facts and documents relating to said Inventions, as may be known and accessible to Assignor, and Assignee will testify as to the same in any interference, litigation or proceeding related thereto and will do all acts including promptly execute and deliver to said Assignee

or its legal representatives any and all papers, instruments or affidavits that Assignee, is successors or assigns may consider necessary or desirable to apply for, obtain, maintain, issue, transfer and enforce said Inventions or any United States or foreign patent or application filed in connection with said Inventions.

In Witness Whereof, the undersigned has executed this document as of the 13th day of April, 2017.

INVENTOR

_____(Signature)

Dr. Bor Z. Jang (Print Name)

State of Ohio)
)
County of Montgomery)

Before me personally appeared said **Dr. Bor Z. Jang** and acknowledged the foregoing instrument to be his free act and deed, this 13th day of April, 2017

Jennifer R Smallwood

Notary Public

Jennifer R. Smallwood
NOTARY PUBLIC
STATE OF OHIO
My commission expires
June 29, 2019

Exhibit A - Assigned Patents and Patent Applications

Inventors	Patent	Patent Number	Application Number	Filing Date
Aruna Zhamu and Bor Z. Jang	Flexible and Shape-Conformal Rope-Shape Supercapacitors		15/398416	1/4/2017
Aruna Zhamu and Bor Z. Jang	Process for Flexible and Shape-Conformal Rope-Shape Supercapacitors		15/398421	1/4/2017
Aruna Zhamu, Yanbo Wang, Lucy Fu, and Bor Z. Jang	Process for producing highly oriented graphene films		15/408045	1/17/2017
Aruna Zhamu and Bor Z. Jang	Graphene-Enabled Metal Fluoride and Metal Chloride Cathode Active Materials for Lithium Batteries		15/412852	1/23/2017
Aruna Zhamu and Bor Z. Jang	Graphene Foam-Protected Metal Fluoride and Metal Chloride Cathode Active Materials for Lithium Batteries		15/416850	1/26/2017
Aruna Zhamu and Bor Z. Jang	Exfoliated Graphite Worm-Protected Metal Fluoride and Metal Chloride Cathode Active Materials for Lithium Batteries		15/419454	1/30/2017
Qing Fang, Aruna Zhamu and Bor Z. Jang	Process For Silicon Nanowire-graphene Hybrid Mat		15/427863	2/8/2017
Aruna Zhamu and Bor Z. Jang	Alkali Metal-Sulfur Secondary Battery Containing a Nano Sulfur-Loaded Cathode and Manufacturing Method		15/431231	2/13/2017
Aruna Zhamu and Bor Z. Jang	Aluminum Secondary Battery Having a High-Capacity and High Energy Cathode and Manufacturing Method		15/431250	2/13/2017
Aruna Zhamu and Bor Z. Jang	Method of Manufacturing a Lithium Secondary Battery Having a Protected High-Capacity Anode Active Material		15/434632	2/16/2017

Aruna Zhamu and Bor Z. Jang	Aluminum Secondary Battery Having an Exfoliated Graphite-Based High-Capacity Cathode and Manufacturing Method		15/434913	2/16/2017
Baofei Pan, Hui He, Aruna Zhamu and Bor Z. Jang	Lithium Secondary Batteries Containing Protected Particles of Anode Active Materials and Method of Manufacturing		15/436964	2/20/2017
Baofei Pan, Hui He, Aruna Zhamu, Bor Z. Jang	Alkali Metal-Sulfur Secondary Battery Containing a Protected Sulfur Cathode and Manufacturing Method		15/440151	2/23/2017
Baofei Pan, Hui He, Aruna Zhamu, Bor Z. Jang	Polymer Binder for Lithium Battery and Method of Manufacturing		15/442278	2/24/2017
Baofei Pan, Hui He, Aruna Zhamu, Bor Z. Jang	Lithium Battery Cathode and Method of Manufacturing		15/442803	2/27/2017
Baofei Pan, Hui He, Aruna Zhamu, Bor Z. Jang	Cathode Active Material Layer for Lithium Secondary Battery and Method of Manufacturing		15/442807	2/27/2017
Yu-Sheng Su, Aruna Zhamu, Hui He, Baofei Pan, and Bor Z. Jang	Aluminum Secondary Battery Having a High-Capacity and High-Rate Capable Cathode and Manufacturing Method		15/449976	3/5/2017
Yu-Sheng Su, Aruna Zhamu, Hui He, Baofei Pan, and Bor Z. Jang	Aluminum Secondary Battery Cathode Having Oriented Graphene		15/450447	3/6/2017
Yu-Sheng Su, Aruna Zhamu, Hui He, Baofei Pan, and Bor Z. Jang	Graphitic Carbon-Based Cathode for Aluminum Secondary Battery and Manufacturing Method		15/454053	3/9/2017
Aruna Zhamu, and Bor Z. Jang	Eco-friendly Production of Graphene		15/484546	4/11/2017
Aruna Zhamu and Bor Z. Jang	Flexible Asymmetric Electrochemical Cells Using Nano Graphene Platelet as an Electrode Material		15/463531	3/20/2017
Aruna Zhamu and Bor Z. Jang	Multivalent Metal Ion Battery and Manufacturing Method		15/463543	3/20/2017

Aruna Zhamu and Bor Z. Jang	Multivalent Metal Ion Battery Having a Cathode of Recompressed Graphite Worms and Manufacturing Method		15/463555	3/20/2017
Aruna Zhamu and Bor Z. Jang	Multivalent Metal Ion Battery Having a Cathode Layer of Protected Graphitic Carbon and Manufacturing Method		15/466286	3/22/2017
Baofei Pan, Hui He, Yu-Sheng Su, Aruna Zhamu, and Bor Z. Jang	Non-flammable Quasi-Solid Electrolyte and Lithium Secondary Batteries Containing Same		15/468080	3/23/2017
Baofei Pan, Hui He, Yu-Sheng Su, Aruna Zhamu, and Bor Z. Jang	Lithium Secondary Battery Containing Non-flammable Electrolyte and Manufacturing Method		15/470408	3/27/2017
Yi-jun Lin, Aruna Zhamu, and Bor Z. Jang	Direct Microwave Production of Graphene		15/475451	3/31/2017
Aruna Zhamu, and Bor Z. Jang	Process for Fabric of Continuous Graphitic Fiber Yarns		15/475454	3/31/2017
Aruna Zhamu, and Bor Z. Jang	Encapsulated Anode Active Material Particles, Lithium Secondary Batteries Containing Same, and Method of Manufacturing		15/478125	4/3/2017
Aruna Zhamu, and Bor Z. Jang	Encapsulated Cathode Active Material Particles, Lithium Secondary Batteries Containing Same, and Method of Manufacturing		15/483342	4/10/2017
Aruna Zhamu, and Bor Z. Jang	Alkali Metal-Sulfur Secondary Battery Containing a Polymer-Encapsulated Sulfur Cathode and Manufacturing Method		15/483347	4/10/2017
Aruna Zhamu, and Bor Z. Jang	Lithium Metal Secondary Battery Containing an Anode-Protecting Polymer Layer and Manufacturing Method		15/483348	4/10/2017
Baofei Pan, Hui He, Aruna Zhamu, and Bor Z. Jang	Lithium Anode-Protecting Polymer Layer for a Lithium Metal Secondary Battery and Manufacturing Method		15/485934	4/12/2017