

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
ARUNA ZHAMU	10/26/2013
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XIQING WANG	05/05/2014
GUORONG CHEN	08/29/2013
QING FANG	09/04/2013
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Property Type	Number
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DATE SIGNED:	01/15/2015

Total Attachments: 46

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ASSIGNMENT

This Assignment Agreement is made and entered by and between Aruna Zhamu, a citizen of P. R. China, residing at 765 Hidden Circle, Centerville, Ohio (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 the production and use of new materials, including nano-scaled graphene plates, processes, energy technologies, and 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 issued United States patents listed in Schedule "A" attached hereto and incorporated herein by reference and all corresponding rights to claim priority, (2) the patent applications listed in Exhibit "A" and any and all improvements which are disclosed in any of the aforesaid patent applications, (3) all Letters Patent to be obtained for said Inventions by the above applications or any continuation, divisional, renewal, or substitute thereof and, as to Letters Patent, any reissue or re-examination thereof, (4) all know-how, trade secrets, discoveries, concepts, ideas, and technologies related to the same, (5) any and all copyrights, copyright registrations and copyrightable subject matter related to the same; and (6) 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 Letters Patent which may issue from the Inventions, and (c) all divisions, continuations, reissues, re-examinations and extensions of the patents and applications listed on Schedule A.

3. Assignor further covenants that said Assignee will, upon its request, be provided promptly with all pertinent facts and documents relating to said Inventions and said Letters Patent and legal equivalents, as may be known and accessible to Assignor and he or she will testify as to the same in any interference, litigation or proceeding related thereto and will

promptly execute and deliver to said Assignee or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said Inventions and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purpose thereof.

In Witness Whereof, the undersigned has executed this document as of the 26 day of October, 2013

INVENTOR

 (Signature)

Aruna Zhamu (Print Name)

State of Ohio

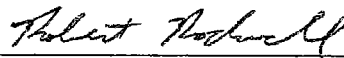
County of Montgomery

)
) SSN: 501-31-4061
)

Before me personally appeared said Aruna Zhamu and acknowledged the foregoing instrument to be his free act and deed, this 26th day of October, 2013.



ROBERT ROCKWELL
Notary Public, State of Ohio
My Comm. Expires June 27, 2017



Notary Public

EXHIBIT "A" Assigned Patents
Invention Patents and Applications

1. Jiusheng Guo, A. Zhamu, and B. Z. Jang, "Nano-scaled Graphene Plate-Reinforced Composite Materials and Method of Producing Same," US Patent No. 7,662,321 (02/16/2010) (US Pat. Appl No. 11/257,508 (10/26/05)).
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12. Aruna Zhamu, Jinjun Shi, Jiusheng Guo and Bor Z. Jang, "Method of Producing Exfoliated Graphite, Flexible Graphite, and Nano-Scaled Graphene Plates," US Pat. Pending, 11/800,728 (05/08/2007); now US Patent No. 7,824,651 (11/02/2010).
13. Aruna Zhamu, Joan Jang, Jinjun Shi, and Bor Z. Jang, "Method of Producing Ultra-thin Nano-Scaled Graphene Platelets," US Pat. Pending, 11/879,680 (07/19/2007). (2nd Int.)
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47. Aruna Zhamu, Yi-jun Lin, Mingchao Wang, Wei Xiong, and Bor Z. Jang, "Inorganic Coating-Protected Unitary Graphene Materials for Concentrated Photovoltaic Applications," US Patent Application No. 13/815,100/ (01/31/2013).
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ASSIGNMENT

This Assignment Agreement is made and entered by and between Bor Z. Jang, a citizen of USA, residing at 9436 Parkside Drive, Centerville, Ohio (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 the production and use of new materials, including nano-scaled graphene plates, processes, energy technologies, and 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 issued United States patents listed in Schedule "A" attached hereto and incorporated herein by reference and all corresponding rights to claim priority, (2) the patent applications listed in Exhibit "A" and any and all improvements which are disclosed in any of the aforesaid patent applications, (3) all Letters Patent to be obtained for said Inventions by the above applications or any continuation, divisional, renewal, or substitute thereof and, as to Letters Patent, any reissue or re-examination thereof, (4) all know-how, trade secrets, discoveries, concepts, ideas, and technologies related to the same, (5) any and all copyrights, copyright registrations and copyrightable subject matter related to the same; and (6) 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 Letters Patent which may issue from the Inventions, and (c) all divisions, continuations, reissues, re-examinations and extensions of the patents and applications listed on Schedule A.

3. Assignor further covenants that said Assignee will, upon its request, be provided promptly with all pertinent facts and documents relating to said Inventions and said Letters Patent and legal equivalents, as may be known and accessible to Assignor and he or she will testify as to the same in any interference, litigation or proceeding related thereto and will

promptly execute and deliver to said Assignee or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said Inventions and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purpose thereof.

In Witness Whereof, the undersigned has executed this document as of the 26 day of October, 2013

INVENTOR

Bor Z. Jang (Signature)

Bor Z. Jang (Print Name)

State of Ohio

)

) SSN: 303 80 5885

County of Montgomery

)

Before me personally appeared said Bor Z. Jang and acknowledged the foregoing instrument to be his free act and deed, this 26th day of October, 2013.



ROBERT ROCKWELL
Notary Public, State of Ohio
My Comm. Expires June 27, 2017

Robert Rockwell

Notary Public

EXHIBIT "A": Assigned Patents
Invention Patents and Applications

1. Jiusheng Guo, A. Zhamu, and B. Z. Jang, "Nano-scaled Graphene Plate-Reinforced Composite Materials and Method of Producing Same," US Patent No. 7,662,321 (02/16/2010) (US Pat. Appl No.11/257,508 (10/26/05)).
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ASSIGNMENT

This Assignment Agreement is made and entered by and between Yanbo Wang, a citizen of the Peoples Republic of China, residing at 2108 E David Rd., Kettering, OH 45440 (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, including nano-scaled graphene plates, processes, energy technologies, and 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 issued United States patents listed in Exhibit "A" attached hereto and incorporated herein by reference and all corresponding rights to claim priority, (2) the patent applications listed in Exhibit "A" and any and all improvements which are disclosed in any of the aforesaid patent applications, (3) all Letters Patent to be obtained for said Inventions by the above applications or any continuation, divisional, renewal, or substitute thereof and, as to Letters Patent, any reissue or re-examination thereof, (4) all know-how, trade secrets, discoveries, concepts, ideas, and technologies related to the same, (5) any and all copyrights, copyright registrations and copyrightable subject matter related to the same; and (6) any trademarks related to such patents and patent applications.

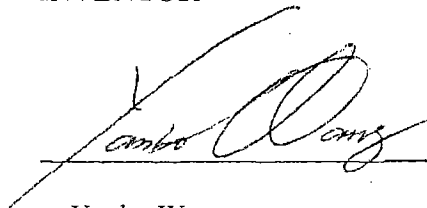
2. In consideration of the sum of one dollar (\$1.00) and other good and valuable consideration, the receipt of which is acknowledged, the Assignor hereby assigns, transfers and conveys to Assignee all of Assignor's right, title and interest in and to (a) the Inventions, (b) any U.S. or foreign Letters 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 further covenants that said Assignee will, upon its request, be provided promptly with all pertinent facts and documents relating to said Inventions and said Letters Patent and legal equivalents, as may be known and accessible to Assignor and he or she will testify as to the same in any interference, litigation or proceeding related thereto and will promptly execute and deliver to said Assignee or its legal representatives any and all papers,

instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said Inventions and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purpose thereof.

In Witness Whereof, the undersigned has executed this document as of the 28th day of August, 2013

INVENTOR

 (Signature)
Yanbo Wang (Print Name)

State of Ohio

County of Montgomery

)
) SSN: 271-17-4380

Before me personally appeared said Yanbo Wang and acknowledged the foregoing instrument to be his free act and deed, this 28 day of August, 2013.

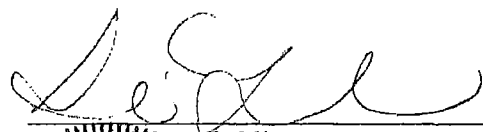


Notary Public

SAUNI L. MCFARLAND
NOTARY PUBLIC
STATE OF OHIO
MY COMMISSION EXPIRES 7/5/14

EXHIBIT "A"

Assigned Patents

Invention Patents and Applications

Name of Assigned Patent	Patent Registration No. or Application No.	Status: Registered (R), Applied for Registration (A), Abandoned Application (AA) and Status Not Available (NA)
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Yanbo Wang, Zhenning Yu, Aruna Zhamu, Guorong Chen, and Bor Z. Jang, "Inorganic Nano Sheet-Enabled Lithium-Exchanging Surface-Mediated Cells,"	US Patent Application No. 13/385,366 (02/16/2012).	A
Guorong Chen, Yanbo Wang, Qing Fang, Xiqing	US Patent Application	A

Wang, Aruna Zhamu, and Bor Z. Jang, "Lithium-ion Cell Having a High-Capacity Anode and a High-Capacity Cathode"	No. 13/385,561 (2/27/2012)	
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Guorong Chen, Yanbo Wang, Qing Fang, Aruna Zhamu, and Bor Z. Jang, "Dual Electroplating Cell,"	US Patent Appl. No. 13/507,057 (06/01/2012).	A
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Hui He, Yanbo Wang, Aruna Zhamu, and Bor Z. Jang, "Lithium Secondary Batteries Containing Lithium Salt-Ionic Liquid Solvent Electrolyte,"	US Patent Application No. 13/986,576 (05/16/2013).	A
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Yanbo Wang, Hui He, Aruna Zhamu, and Bor Z. Jang, "Cathode Active Material-Coated Discrete Graphene Sheets for Lithium Batteries and Process for Producing Same,"	US Patent Application No. 13/987,567 (08/08/2013).	A
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ASSIGNMENT

This Assignment Agreement is made and entered by and between Xiqing Wang, a citizen of the Peoples Republic of China, residing at 11670 E. Currier Lane, Cincinnati, Ohio 45249 (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, including nano-scaled graphene plates, processes, energy technologies, and 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 issued United States patents listed in Exhibit "A" attached hereto and incorporated herein by reference and all corresponding rights to claim priority, (2) the patent applications listed in Exhibit "A" and any and all improvements which are disclosed in any of the aforesaid patent applications, (3) all Letters Patent to be obtained for said Inventions by the above applications or any continuation, divisional, renewal, or substitute thereof and, as to Letters Patent, any reissue or re-examination thereof, (4) all know-how, trade secrets, discoveries, concepts, ideas, and technologies related to the same, (5) any and all copyrights, copyright registrations and copyrightable subject matter related to the same; and (6) any trademarks related to such patents and patent applications.

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instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said Inventions and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purpose thereof.

In Witness Whereof, the undersigned has executed this document as of the 5th day of May, 2014

INVENTOR

Xiqing Wang (Signature)

Xiqing Wang (Print Name)

State of Ohio)

County of Montgomery)

SSN: _____

Before me personally appeared said Xiqing Wang and acknowledged the foregoing instrument to be his free act and deed, this 5th day of May, 2014.

Betty J. White
Notary Public



BETTY J. WHITE
Notary Public, State of Ohio
My Comm. Expires Jan. 5, 2016

EXHIBIT "A"

Assigned Patents

Invention Patents and Applications

Name of Assigned Patent	Patent Registration No. or Application No.	Status: Registered (R), Applied for Registration (A), and Status Not Available (NA)
Aruna Zhamu, Chen-guang Liu, X. Q. Wang, and Bor Z. Jang, "Surface-Mediated Lithium Ion-Exchanging Energy Storage Device,"	US Patent Application No. 13/199,450 (08/30/2011).	A
Aruna Zhamu, Gurorong Chen, X. Q. Wang, Yanbo Wang, and B. Z. Jang, "Stacks of Internally Connected Surface-Mediated Cells and Methods of Operating Same,"	US patent application No. 13/374,321 (12/21/2011)	A
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List of Patents:

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ASSIGNMENT

This Assignment Agreement is made and entered by and between Guorong Chen, a citizen of the Peoples Republic of China, residing at 1008 Cambridge Station Rd Dayton 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, including nano-scaled graphene plates, processes, energy technologies, and 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.

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instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said Inventions and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purpose thereof.

In Witness Whereof, the undersigned has executed this document as of the 29th day of August, 2013

INVENTOR

Guorong Chen (Signature)

Guorong Chen (Print Name)

State of Ohio

County of Montgomery

)
) SSN: _____

Before me personally appeared said Guorong Chen and acknowledged the foregoing instrument to be his free act and deed, this 30 day of August, 2013.

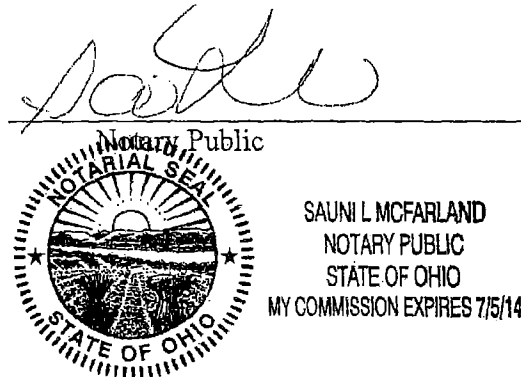


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Aruna Zhamu, Jinjun Shi, Guorong Chen, M. C. Wang, and Bor Z. Jang, "Graphene-Enhanced Cathode Particulates for Lithium Batteries"	US Patent Application No. 12/807,471 (09/07/2010)	A
Aruna Zhamu, Jinjun Shi, Guorong Chen, Qing Fang, and Bor Z. Jang, "Graphene-Enhanced Anode Particulates for Lithium Batteries"	US Patent Application No. 12/807,635 (09/10/2010)	A
Guorong Chen, Aruna Zhamu, Zhenning Yu, and B. Z. Jang, "Graphene-Enabled Vanadium Oxide Cathode and Lithium Cells Containing Same"	US Patent Application No. 13/134,782 (06/17/2011)	A
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Operating Same,”		
Yanbo Wang, Zhenning Yu, Aruna Zhamu, Guorong Chen, and Bor Z. Jang, “Inorganic Nano Sheet-Enabled Lithium-Exchanging Surface-Mediated Cells,”	US Patent Application No. 13/385,366 (02/16/2012)	A
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1. A. Zhamu, Jinjun Shi, Guorong Chen, Qing Fang, M. C. Wang, and B. Z. Jang, "Graphite and Carbon Particulates for the Lithium Ion Battery," US Patent Application No. 12/804,413 (07/22/2010).
2. Aruna Zhamu, Jinjun Shi, Guorong Chen, M. C. Wang, and Bor Z. Jang, "Graphene-Enhanced Cathode Particulates for Lithium Batteries," US Patent Application No. 12/807,471 (09/07/2010).
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10. Aruna Zhamu, Guorong Chen, Qing Fang, Xiqing Wang, Yanbo Wang, and Bor Z. Jang, "Surface-Mediated Cell-Driven Power Tools and Methods of Operating Same," US Patent Application No. 13/385,350 (02/16/2012).
11. Yanbo Wang, Zhenning Yu, Aruna Zhamu, Guorong Chen, and Bor Z. Jang, "Inorganic Nano Sheet-Enabled Lithium-Exchanging Surface-Mediated Cells," US Patent Application No. 13/385,366 (02/16/2012).
12. Guorong Chen, Yanbo Wang, Qing Fang, Xiqing Wang, Aruna Zhamu, and Bor Z. Jang, "Lithium-ion Cell Having a High-Capacity Anode and a High-Capacity Cathode" US Patent Application No. 13/385,561 (2/27/2012).
13. Guorong Chen, Yanbo Wang, Qing Fang, Xiqing Wang, Aruna Zhamu, and Bor Z. Jang, "Lithium-ion Cell Having a High Energy Density and High Power Density" US Patent Application No. 13/506,168 (04/02/2012).
14. Guorong Chen, Yanbo Wang, Qing Fang, Xiqing Wang, Aruna Zhamu, and Bor Z. Jang, "Method of Operating a Lithium-ion Cell Having a High-Capacity Cathode" US Patent Application No. 13/506,324 (04/12/2012).
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17. Guorong Chen, Yanbo Wang, Aruna Zhamu, and Bor Z. Jang, "Rechargeable Lithium Cell Having a Meso-Porous Conductive Material Structure-Supported Phthalocyanine Compound Cathode," US Patent Appl. No. 13/507,168 (06/11/2012).
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20. Guorong Chen, Zhenning Yu, Chen-guang Liu, Aruna Zhamu, and Bor Z. Jang, "Rechargeable Lithium Cell Having a Chemically Bonded Phthalocyanine Compound Cathode," US Patent Application No. 13/573,275 (09/07/2012).
21. Guorong Chen, Aruna Zhamu, and Bor Z. Jang, "Encapsulated Phthalocyanine Particles, High-Capacity Cathode Containing These Particles, and Rechargeable Lithium Cell Containing Such a Cathode," US Patent Application No. 13/573,298 (09/10/2012).

ASSIGNMENT

This Assignment Agreement is made and entered by and between Qing Fang, a citizen of the Peoples Republic of China, residing at 6261 Nightwind Ct, Huber Heights, OH 45414 (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, including nano-scaled graphene plates, processes, energy technologies, and 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 issued United States patents listed in Exhibit "A" attached hereto and incorporated herein by reference and all corresponding rights to claim priority, (2) the patent applications listed in Exhibit "A" and any and all improvements which are disclosed in any of the aforesaid patent applications, (3) all Letters Patent to be obtained for said Inventions by the above applications or any continuation, divisional, renewal, or substitute thereof and, as to Letters Patent, any reissue or re-examination thereof, (4) all know-how, trade secrets, discoveries, concepts, ideas, and technologies related to the same, (5) any and all copyrights, copyright registrations and copyrightable subject matter related to the same; and (6) 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 Letters 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 further covenants that said Assignee will, upon its request, be provided promptly with all pertinent facts and documents relating to said Inventions and said Letters Patent and legal equivalents, as may be known and accessible to Assignor and he or she will testify as to the same in any interference, litigation or proceeding related thereto and will promptly execute and deliver to said Assignee or its legal representatives any and all papers.

instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said Inventions and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purpose thereof.

In Witness Whereof, the undersigned has executed this document as of the 4th day of September, 2013

INVENTOR

[Signature] (Signature)

Qing Fang (Print Name)

State of Ohio)
County of Franklin) SSN: _____

Before me personally appeared said Qing Fang and acknowledged the foregoing instrument to be his free act and deed, this 4th day of September, 2013.

[Signature]
Notary Public

BETTY J. WHITE
Notary Public, State of Ohio
My Comm. Expires Jan. 5, 2016



EXHIBIT "A"**Assigned Patents****Invention Patents and Applications**

Name of Assigned Patent	Patent Registration No. or Application No.	Status: Registered (R), Applied for Registration (A), Abandoned Application (AA) and Status Not Available (NA)
A. Zhamu, Jinjun Shi, Guorong Chen, Qing Fang, M. C. Wang, and B. Z. Jang, "Graphite and Carbon Particulates for the Lithium Ion Battery"	US Patent Application No. 12/804,413 (07/22/2010)	A
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Aruna Zhamu, Guorong Chen, Qing Fang, Xiqing Wang, Yanbo Wang, and Bor Z. Jang, "Surface-Mediated Cell-Powered Vehicles and Methods of Operating Same,"	US Patent App. No. 13/374,894 (01/23/2012).	A
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Guorong Chen, Yanbo Wang, Qing Fang, Aruna Zhamu, and Bor Z. Jang, "Dual Electroplating Cell,"	US Patent Appl. No. 13/507,057 (06/01/2012)	A

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4. Aruna Zhamu, Guorong Chen, Qing Fang, Xiqing Wang, Yanbo Wang, and Bor Z. Jang, "Surface-Mediated Cells with High Power Density and High energy Density," US Patent App. No. 13/385,105 (02/03/2012).
5. Aruna Zhamu, Guorong Chen, Qing Fang, Xiqing Wang, Yanbo Wang, and Bor Z. Jang, "Surface-Mediated Cell-Powered Portable Computing Devices and Methods of Operating Same," US Patent Application No. 13/385,245 (02/10/2012).
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