

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT2703728

SUBMISSION TYPE:	NEW ASSIGNMENT												
NATURE OF CONVEYANCE:	ASSIGNMENT												
CONVEYING PARTY DATA													
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>JEFF QIANG XU</td> <td>01/21/2014</td> </tr> <tr> <td>JOE STEIBER</td> <td>01/21/2014</td> </tr> <tr> <td>CRAIG M. WALL</td> <td>01/23/2014</td> </tr> <tr> <td>CHEUK NG</td> <td>01/21/2014</td> </tr> <tr> <td>ROBERT SMITH</td> <td>01/20/2014</td> </tr> </tbody> </table>		Name	Execution Date	JEFF QIANG XU	01/21/2014	JOE STEIBER	01/21/2014	CRAIG M. WALL	01/23/2014	CHEUK NG	01/21/2014	ROBERT SMITH	01/20/2014
Name	Execution Date												
JEFF QIANG XU	01/21/2014												
JOE STEIBER	01/21/2014												
CRAIG M. WALL	01/23/2014												
CHEUK NG	01/21/2014												
ROBERT SMITH	01/20/2014												
RECEIVING PARTY DATA													
Name:	SOUTHWEST RESEARCH INSTITUTE												
Street Address:	6220 CULEBRA ROAD												
City:	SAN ANTONIO												
State/Country:	TEXAS												
Postal Code:	78238-5166												
PROPERTY NUMBERS Total: 1													
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>14102197</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	14102197								
Property Type	Number												
Application Number:	14102197												
CORRESPONDENCE DATA													
Fax Number:	(210)522-8365												
Phone:	210-522-5560												
Email:	shirley.mcdonald@swri.org												
<i>Correspondence will be sent via US Mail when the email attempt is unsuccessful.</i>													
Correspondent Name:	SOUTHWEST RESEARCH INSTITUTE												
Address Line 1:	6220 CULEBRA ROAD												
Address Line 4:	SAN ANTONIO, TEXAS 78238-5166												
ATTORNEY DOCKET NUMBER:	SWR3687												
NAME OF SUBMITTER:	SHIRLEY E. MCDONALD												

Signature:	/Shirley E. McDonald/
Date:	01/29/2014
Total Attachments: 6 source=Robert Smith signed Assignment for 3687#page1.tif source=Robert Smith signed Assignment for 3687#page2.tif source=Robert Smith signed Assignment for 3687#page3.tif source=Xu, Steiber, Wall, Ng signed Assigment for 3687#page1.tif source=Xu, Steiber, Wall, Ng signed Assigment for 3687#page2.tif source=Xu, Steiber, Wall, Ng signed Assigment for 3687#page3.tif	

ASSIGNMENT OF THE UNITED STATES PATENT APPLICATION

WHEREAS, WE, Jeff Qiang XU, Joe STEIBER, Craig M. WALL, Robert SMITH, and Cheuk NG, made certain new and useful inventions and improvements for which we filed an application for Letters Patent of the United States, identified as U.S. patent application serial number 14/102,197 filed on December 10, 2013 which application is entitled:

STRAIN MEASUREMENT BASED BATTERY TESTING

AND, WHEREAS, we hereby authorize and request an attorney associated with Customer Number 32047 to insert on the designated lines above, the filing date and application number of said application when known;

AND, WHEREAS, SOUTHWEST RESEARCH INSTITUTE, a corporation organized and existing under and by virtue of the laws of the State of Texas, U.S.A., and having an office and place of business at 6220 Culebra Road, San Antonio, Texas 78238-5166, (hereinafter "Assignee"), is desirous of acquiring the entire right, title and interest in and to said inventions, improvements and application and in and to the Letters Patent to be obtained therefore;

NOW, THEREFORE, to all whom it may concern, be it known that for good and valuable consideration, the receipt and sufficiency whereof is hereby acknowledged, we have sold, assigned, and transferred, and by these presents do sell, assign and transfer unto said Assignee, its successors or assigns, the entire right, title and interest for all countries in and to all inventions and improvements disclosed in the aforesaid application, and in and to the said application, all divisions, continuations, continuations-in-part, or renewals thereof, all Letters Patent which may be granted there from, and all reissues or extensions of such patents, and in and to any and all applications which have been or shall be filed under the Patent Cooperation Treaty, in any regional patent offices and in any foreign countries for Letters Patent on the said inventions and improvements, including an assignment of all rights under the provisions of the International Convention, and all Letters Patent of foreign countries which may be granted there from; and we do hereby authorize and request the Commissioner of Patents and Trademarks to issue any and all United States Letter Patent for the aforesaid inventions and improvements to

the said Assignee as the assignee of the entire right, title and interest in and to the same, for the use of the said Assignee, its successors and assigns.

AND, for the consideration aforesaid, we do hereby agree that we and our executors and legal representatives will make, execute and deliver any and all other instruments in writing including any and all further application papers, affidavits, assignments and other documents, and will communicate to said Assignee, its successors and representatives all facts known to us relating to said improvements and the history thereof and will testify in all legal proceedings and generally do all things which may be necessary or desirable more effectually to secure to and vest in said Assignee, its successors or assigns the entire right, title and interest in and to the said improvements, inventions, applications, Letters Patent, rights, titles, benefits, privileges and advantages hereby sold, assigned and conveyed, or intended so to be;

AND, furthermore, we covenant and agree with said Assignee, its successors and assigns, that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by us and that full right to convey the same as herein expressed is possessed by us.

AND, as a named inventor, I hereby declare that:

The above-identified application was made or authorized to be made by me.

I believe that I am an original joint inventor of a claimed invention in the application.

I have reviewed and understand the contents of the application, including the claims, and I am aware of the duty to disclose to the Office all information known to the person to be material to patentability as defined in 37 C.F.R. § 1.56.

I hereby acknowledge that any wilful false statement made in this declaration is punishable under 18 U.S. C. 1001 by fine or imprisonment of not more than five (5) years, or both.

IN TESTIMONY WHEREOF, I have hereunto set my hand this _____ day of _____, 2014.

Jeff Qiang Xu


IN TESTIMONY WHEREOF, I have hereunto set my hand this _____ day of _____, 2014.

Joe Steiber

IN TESTIMONY WHEREOF, I have hereunto set my hand this _____ day of _____, 2014.

Craig M. Wall

IN TESTIMONY WHEREOF, I have hereunto set my hand this 20th day of January, 2014.



Robert Smith

IN TESTIMONY WHEREOF, I have hereunto set my hand this _____ day of _____, 2014.

Cheuk Ng

ASSIGNMENT OF THE UNITED STATES PATENT APPLICATION

WHEREAS, WE, **Jeff Qiang XU, Joe STEIBER, Craig M. WALL, Robert SMITH, and Cheuk NG**, made certain new and useful inventions and improvements for which we filed an application for Letters Patent of the United States, identified as U.S. patent application serial number 14/102,197 filed on **December 10, 2013** which application is entitled:

STRAIN MEASUREMENT BASED BATTERY TESTING

AND, WHEREAS, we hereby authorize and request an attorney associated with Customer Number 32047 to insert on the designated lines above, the filing date and application number of said application when known;

AND, WHEREAS, **SOUTHWEST RESEARCH INSTITUTE**, a corporation organized and existing under and by virtue of the laws of the State of Texas, U.S.A., and having an office and place of business at 6220 Culebra Road, San Antonio, Texas 78238-5166, (hereinafter "Assignee"), is desirous of acquiring the entire right, title and interest in and to said inventions, improvements and application and in and to the Letters Patent to be obtained therefore;

NOW, THEREFORE, to all whom it may concern, be it known that for good and valuable consideration, the receipt and sufficiency whereof is hereby acknowledged, we have sold, assigned, and transferred, and by these presents do sell, assign and transfer unto said Assignee, its successors or assigns, the entire right, title and interest for all countries in and to all inventions and improvements disclosed in the aforesaid application, and in and to the said application, all divisions, continuations, continuations-in-part, or renewals thereof, all Letters Patent which may be granted there from, and all reissues or extensions of such patents, and in and to any and all applications which have been or shall be filed under the Patent Cooperation Treaty, in any regional patent offices and in any foreign countries for Letters Patent on the said inventions and improvements, including an assignment of all rights under the provisions of the International Convention, and all Letters Patent of foreign countries which may be granted there from; and we do hereby authorize and request the Commissioner of Patents and Trademarks to issue any and all United States Letter Patent for the aforesaid inventions and improvements to

the said Assignee as the assignee of the entire right, title and interest in and to the same, for the use of the said Assignee, its successors and assigns.

AND, for the consideration aforesaid, we do hereby agree that we and our executors and legal representatives will make, execute and deliver any and all other instruments in writing including any and all further application papers, affidavits, assignments and other documents, and will communicate to said Assignee, its successors and representatives all facts known to us relating to said improvements and the history thereof and will testify in all legal proceedings and generally do all things which may be necessary or desirable more effectually to secure to and vest in said Assignee, its successors or assigns the entire right, title and interest in and to the said improvements, inventions, applications, Letters Patent, rights, titles, benefits, privileges and advantages hereby sold, assigned and conveyed, or intended so to be;

AND, furthermore, we covenant and agree with said Assignee, its successors and assigns, that no assignment, grant, mortgage, license or other agreement affecting the rights and property herein conveyed has been made to others by us and that full right to convey the same as herein expressed is possessed by us.

AND, as a named inventor, I hereby declare that:

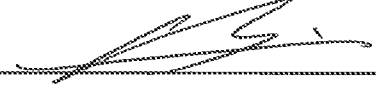
The above-identified application was made or authorized to be made by me.

I believe that I am an original joint inventor of a claimed invention in the application.

I have reviewed and understand the contents of the application, including the claims, and I am aware of the duty to disclose to the Office all information known to the person to be material to patentability as defined in 37 C.F.R. § 1.56.

I hereby acknowledge that any wilful false statement made in this declaration is punishable under 18 U.S. C. 1001 by fine or imprisonment of not more than five (5) years, or both.

IN TESTIMONY WHEREOF, I have hereunto set my hand this 21 day of January, 2014.



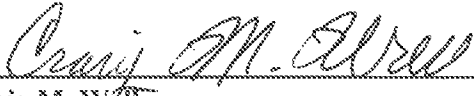
Jeff Qiang Xu

IN TESTIMONY WHEREOF, I have hereunto set my hand this 21 day of January, 2014.



Joe Steiber

IN TESTIMONY WHEREOF, I have hereunto set my hand this 23 day of January, 2014.

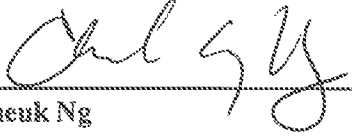


Craig M. Will

IN TESTIMONY WHEREOF, I have hereunto set my hand this _____ day of _____, 2014.

Robert Smith

IN TESTIMONY WHEREOF, I have hereunto set my hand this 21 day of January, 2014.



Cheuk Ng