

PATENT ASSIGNMENT

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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>Dachuan Yu</td> <td>02/05/2013</td> </tr> <tr> <td>Greg Speckhart</td> <td>02/04/2013</td> </tr> </tbody> </table>		Name	Execution Date	Dachuan Yu	02/05/2013	Greg Speckhart	02/04/2013				
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RECEIVING PARTY DATA											
<table border="1"> <tr> <td>Name:</td> <td>Caterpillar Inc.</td> </tr> <tr> <td>Street Address:</td> <td>100 North East Adams</td> </tr> <tr> <td>City:</td> <td>Peoria</td> </tr> <tr> <td>State/Country:</td> <td>ILLINOIS</td> </tr> <tr> <td>Postal Code:</td> <td>61629</td> </tr> </table>		Name:	Caterpillar Inc.	Street Address:	100 North East Adams	City:	Peoria	State/Country:	ILLINOIS	Postal Code:	61629
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PROPERTY NUMBERS Total: 1											
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CORRESPONDENCE DATA											
<p>Fax Number:</p> <p><i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 312-977-9903</p> <p>Email: mboinski@millermatthiashull.com</p> <p>Correspondent Name: Caterpillar/ Miller, Matthias & Hull LLP</p> <p>Address Line 1: One North Franklin Street</p> <p>Address Line 2: Suite 2350</p> <p>Address Line 4: Chicago, ILLINOIS 60606</p>											
ATTORNEY DOCKET NUMBER:	50100/12-0456										
NAME OF SUBMITTER:	Jeffrey K. Berger										
<p>Total Attachments: 3</p> <p>source=12-0456-_Assignment#page1.tif</p> <p>source=12-0456-_Assignment#page2.tif</p> <p>source=12-0456-_Assignment#page3.tif</p>											

OP \$40.00 13761473

ASSIGNMENT

WHEREAS We, the below named inventor(s), [hereinafter referred to as Assignor(s)], have made an invention entitled:

CONTROL OF ENERGY STORAGE SYSTEM INVERTER SYSTEM IN A MICROGRID APPLICATION

for which We will or have filed a patent application; and

WHEREAS, **Caterpillar Inc.**, a corporation of Delaware whose post office address is **100 North East Adams, Peoria, Illinois 61629** (hereinafter referred to as Assignee), is desirous of securing the entire right, title, and interest in and to this invention, and in and to the patent application for this invention and any and all patents to be issued upon this application throughout the world;

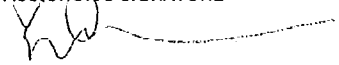
NOW THEREFORE, be it known that for good and valuable consideration the receipt of which from Assignee is hereby acknowledged, I/We, as Assignor(s), have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the Assignee, its lawful successors and assigns, my/our entire right, title, and interest in and to this invention, and this application, and all divisions, and continuations thereof, and all patents which may be granted thereon, and all reissues thereof, as well as all rights to claim priority in any country or jurisdiction or patent office on the basis of this application, and all applications for patents which may hereafter be filed for this invention in any country or jurisdiction or patent office and all patents which may be granted on this invention in any country or jurisdiction or patent office, and all extensions, renewals, and reissues thereof; and I/We hereby authorize and request any official of any country or jurisdiction or patent office whose duty it is to issue patents on applications as described above, to issue all patents for this invention to Assignee, its successors and assigns, in accordance with the terms of this Assignment;

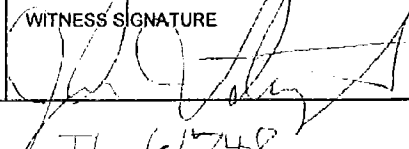
AND, WE HEREBY covenant that I/We have the full right to convey the interest assigned by this Assignment, and I/We have not executed and will not execute any agreement in conflict with this Assignment;


AND, WE HEREBY further covenant and agree that We will, without further consideration, communicate with Assignee, its successors and assigns, any facts known to me/us respecting this invention, and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver any and all papers that may be necessary or desirable to perfect the title to this invention in said Assignee, its successors or assigns, execute all divisional, continuation, and reissue applications, make all rightful oaths and generally do everything possible to aid Assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in any country or jurisdiction or patent office, it being understood that any expense incident to the execution of such papers shall be borne by the Assignee, its successors and assigns;

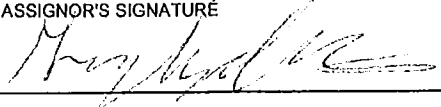
AND, WE HEREBY authorize the attorneys/representatives that we have empowered to prosecute this application filed herewith.

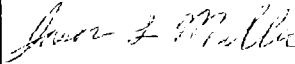
IN TESTIMONY WHEREOF, We have hereunto set our hands.


1. FULL NAME OF SOLE OR FIRST ASSIGNOR Dachuan Yu	ASSIGNOR'S SIGNATURE 	DATE 2/5/13
ADDRESS 1617 Frontier Dr., Normal, IL 61761		CITIZENSHIP PRC

1. WITNESS NAME John Volcupsal	WITNESS SIGNATURE 	DATE 2/5/13
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2. WITNESS NAME Albert E Havelka	WITNESS SIGNATURE 	DATE 2/5/13
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2. FULL NAME OF SECOND ASSIGNOR, IF ANY Greg Speckhart	ASSIGNOR'S SIGNATURE 	DATE 2/4/2013
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1. WITNESS NAME Jason L. Miller	WITNESS SIGNATURE 	DATE 2/4/2013
ADDRESS 11612 Wilbur Rd, Princeton, IL 61559		CITIZENSHIP US

2. WITNESS NAME Jackson White	WITNESS SIGNATURE 	DATE 2/4/2013
ADDRESS 155 Duane Dr, Peoria, IL 61605		CITIZENSHIP Singapore