

PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT2666831

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>JIAO ZHANG ZHANG</td> <td>12/13/2013</td> </tr> <tr> <td>MICHAEL SCHWAB</td> <td>12/13/2013</td> </tr> <tr> <td>PENGFEI MA</td> <td>12/13/2013</td> </tr> </tbody> </table>		Name	Execution Date	JIAO ZHANG ZHANG	12/13/2013	MICHAEL SCHWAB	12/13/2013	PENGFEI MA	12/13/2013		
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MICHAEL SCHWAB	12/13/2013										
PENGFEI MA	12/13/2013										
RECEIVING PARTY DATA											
<table border="1"> <tr> <td>Name:</td> <td>CATERPILLAR INC.,</td> </tr> <tr> <td>Street Address:</td> <td>100 N.E. ADAMS STREET</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 N.E. ADAMS STREET	City:	PEORIA	State/Country:	ILLINOIS	Postal Code:	61629
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PROPERTY NUMBERS Total: 1											
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CORRESPONDENCE DATA											
Fax Number:	(202)861-1783										
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<i>Correspondence will be sent via US Mail when the email attempt is unsuccessful.</i>											
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NAME OF SUBMITTER:	JOELL R. HIBSHMAN II										
Signature:	/JOELL R. HIBSHMAN II/										
Date:	01/03/2014										

Total Attachments: 4

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ASSIGNMENT

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

HYBRID APPARATUS AND METHOD FOR HYDRAULIC SYSTEMS

for which I/We will or have filed a patent application, and

WHEREAS, Caterpillar Inc., a corporation of Delaware, whose post office address is 100 NE Adams Street, Peoria, IL 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;

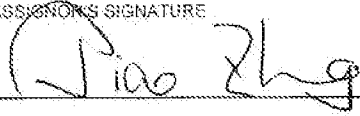
NOW THEREFORE, be it known that for good and valuable consideration the receipt of which from Assignee is hereby acknowledged, I/We, as Assignor(s), have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the Assignee, its lawful successors and assigns, 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;

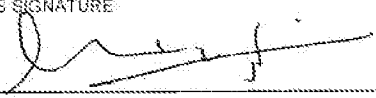
AND, I/WE HEREBY covenant that I/We have the full right to convey the interest assigned by this Assignment, and I/We have not executed and will not execute any agreement in conflict with this Assignment;

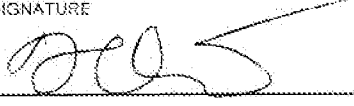
AND, I/WE HEREBY further covenant and agree that I/We will, without further consideration, communicate with Assignee, its successors and assigns, any facts known to me/us respecting this invention, and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver 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, I/WE HEREBY authorize Assignee or the attorneys/representatives of Assignee to insert here in parentheses the country, application number, and/or official filing date (U.S. Application No. _____ filed _____).

IN TESTIMONY WHEREOF, I/We have hereunto set our hands.

1. FULL NAME OF FIRST (OR SOLE) ASSIGNOR Jiao ZHANG	ASSIGNOR'S SIGNATURE 	DATE 12/13/2013
ADDRESS 1651 Pathway Dr., Naperville, IL, 60565		CITIZENSHIP U.S.A

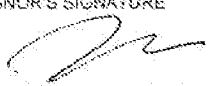
1. WITNESS NAME DAYAO CHEN	WITNESS SIGNATURE 	DATE 12/13/2013
ADDRESS 1817 Pampas Sr. Bolingbrook IL 60480		CITIZENSHIP Canada


2. WITNESS NAME ANG QIAN	WITNESS SIGNATURE 	DATE 12/13/2013
ADDRESS 6140 Westleigh CT, Lisle, IL 60532		CITIZENSHIP U.S.A

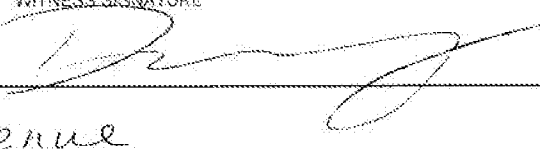
1. FULL NAME OF SECOND ASSIGNOR Michael SCHWAB	ASSIGNOR'S SIGNATURE <i>Michael Schwab</i>	DATE 13 DEC 2013
ADDRESS 2300 Hess Dr., Crest Hill, IL, 60403		CITIZENSHIP USA

1. WITNESS NAME Dayao Chen	WITNESS SIGNATURE <i>[Signature]</i>	DATE 12/13/2013
ADDRESS 1817 Pampas St. Bolingbrook IL 60490		CITIZENSHIP Canada

2. WITNESS NAME Lonnie Devier	WITNESS SIGNATURE <i>Lonnie Devier</i>	DATE 12/13/2013
ADDRESS 26228 PRAIRIE COURT, CHANNAHON IL		CITIZENSHIP USA

1. FULL NAME OF THIRD ASSIGNOR Pengfei MA	ASSIGNOR'S SIGNATURE 	DATE 12/13/13
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1. WITNESS NAME VICKRAM MURUGESAN	WITNESS SIGNATURE 	DATE 12/13/13
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2. WITNESS NAME ZHANGONG DU	WITNESS SIGNATURE 	DATE 12/13/13
ADDRESS 245 Box Car Avenue Naperville, IL 60540		CITIZENSHIP CANADA