

PATENT ASSIGNMENT

Electronic Version v1.1
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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>Keith Edward Lawrence</td> <td>07/10/2013</td> </tr> <tr> <td>John James Krone</td> <td>08/01/2013</td> </tr> <tr> <td>Nick William Biggs</td> <td>07/11/2013</td> </tr> <tr> <td>Karl Arthur Kirsch</td> <td>07/12/2013</td> </tr> <tr> <td>Yuya Kanenawa</td> <td>07/12/2013</td> </tr> <tr> <td>Tetsuya Yoshino</td> <td>07/12/2013</td> </tr> <tr> <td>Magomed Gabibulayev</td> <td>07/15/2013</td> </tr> </tbody> </table>		Name	Execution Date	Keith Edward Lawrence	07/10/2013	John James Krone	08/01/2013	Nick William Biggs	07/11/2013	Karl Arthur Kirsch	07/12/2013	Yuya Kanenawa	07/12/2013	Tetsuya Yoshino	07/12/2013	Magomed Gabibulayev	07/15/2013
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<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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CORRESPONDENCE DATA																	
<p>Fax Number: <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: 312-977-9903 Email: mboinski@millermatthiasull.com Correspondent Name: Caterpillar/ Miller, Matthias & Hull LLP Address Line 1: One North Franklin Street Address Line 2: Suite 2350 Address Line 4: Chicago, ILLINOIS 60606</p>																	
ATTORNEY DOCKET NUMBER:	50100/13-0531																

OP \$40.00 13957052

NAME OF SUBMITTER:	Jeffrey K. Berger
Signature:	/Jeffrey K. Berger/
Date:	08/01/2013
Total Attachments: 8 source=13-0531_us_executed_assign_8-1-13#page1.tif source=13-0531_us_executed_assign_8-1-13#page2.tif source=13-0531_us_executed_assign_8-1-13#page3.tif source=13-0531_us_executed_assign_8-1-13#page4.tif source=13-0531_us_executed_assign_8-1-13#page5.tif source=13-0531_us_executed_assign_8-1-13#page6.tif source=13-0531_us_executed_assign_8-1-13#page7.tif source=13-0531_us_executed_assign_8-1-13#page8.tif	

ASSIGNMENT

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

REDUCING DIG FORCE IN HYDRAULIC IMPLEMENTS

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.

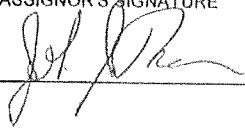
IN TESTIMONY WHEREOF, We have hereunto set our hands.

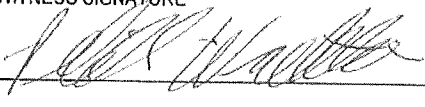
1. FULL NAME OF SOLE OR FIRST ASSIGNOR Keith Edward Lawrence	ASSIGNOR'S SIGNATURE <i>Keith E Lawrence</i>	DATE 7/10/13
ADDRESS 1124 W. Teton Dr., Peoria, IL 61614		CITIZENSHIP US

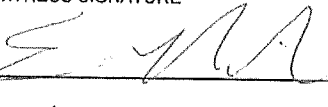
1. WITNESS NAME <i>SEE CHEW SOON</i>	WITNESS SIGNATURE <i>[Signature]</i>	DATE 7/10/13
ADDRESS <i>1504 W MEADOWVIEW DR. DUNLAP, IL, 61525</i>		CITIZENSHIP MALAYSIA

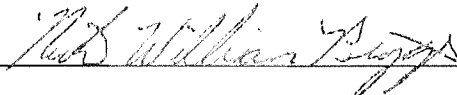
2. WITNESS NAME <i>Philip Carl Wallstedt</i>	WITNESS SIGNATURE <i>[Signature]</i>	DATE 10 July 2013
ADDRESS <i>6902 N Buckeye Dr Edward IL 61528</i>		CITIZENSHIP US


Richard Joseph Jones Jr. *[Signature]* July 10, 2013
1700 W Hickory Grove Rd. Apt. 9-106 Dunlap, IL 61525 US

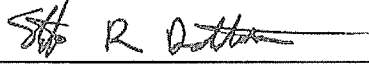
2. FULL NAME OF SECOND ASSIGNOR, IF ANY John James Krone	ASSIGNOR'S SIGNATURE 	DATE 1 Aug 2013
ADDRESS 2000 W. Geneva Rd., Peoria, IL 61615		CITIZENSHIP US


1. WITNESS NAME Philip Wallstedt	WITNESS SIGNATURE 	DATE 1 Aug 2013
ADDRESS 6902 N Buckeye Dr Edwardsville IL 61528		CITIZENSHIP US

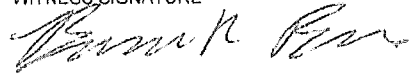
2. WITNESS NAME ERIC Nielsen	WITNESS SIGNATURE 	DATE 1 Aug 2013
ADDRESS 5411 N. Humboldt Ave Peoria, IL 61614		CITIZENSHIP US

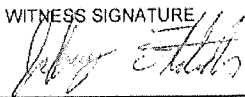
3. FULL NAME OF THIRD ASSIGNOR, IF ANY Nick William Biggs	ASSIGNOR'S SIGNATURE 	DATE 11 July 2013
ADDRESS 411 N. Daniel Prince Dr., Princeville, IL 61559		CITIZENSHIP US

1. WITNESS NAME James S. Rice	WITNESS SIGNATURE 	DATE 11 July 2013
ADDRESS 3162 B Lakeland Rd., Deer Creek, IL 61733		CITIZENSHIP USA

2. WITNESS NAME Stephen R Dockstader	WITNESS SIGNATURE 	DATE 11 July 2013
ADDRESS 2218 W. Riviera Dr Peoria, IL 61614		CITIZENSHIP USA

4. FULL NAME OF FOURTH ASSIGNOR, IF ANY Karl Arthur Kirsch	ASSIGNOR'S SIGNATURE 	DATE 7/12/13
ADDRESS 2502 E. Spillman Rd., Chillicothe, IL 61523		CITIZENSHIP US

1. WITNESS NAME Bradley K Bomer	WITNESS SIGNATURE 	DATE 7-12-2013
ADDRESS 2901 Sheridan Rd Peoria IL 61654		CITIZENSHIP USA

2. WITNESS NAME Jeffrey Fletcher	WITNESS SIGNATURE 	DATE 7-12-13
ADDRESS 1500 W. Blue Sage Dr., Apt. 1304, Peoria, IL 61615		CITIZENSHIP US

5. FULL NAME OF FIFTH ASSIGNOR, IF ANY Yuya Kanenawa	ASSIGNOR'S SIGNATURE <i>Yuya Kanenawa</i>	DATE 12 Jul 2013
ADDRESS A1503 120-55, Kokubo, Akashi-shi, Hyogo-ken, Japan		CITIZENSHIP JP


1. WITNESS NAME	WITNESS SIGNATURE	DATE
ADDRESS		CITIZENSHIP

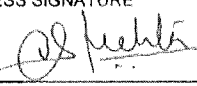
2. WITNESS NAME	WITNESS SIGNATURE	DATE
ADDRESS		CITIZENSHIP


6. FULL NAME OF FIFTH ASSIGNOR, IF ANY Tetsuya Yoshino	ASSIGNOR'S SIGNATURE <i>Tetsuya Yoshino</i>	DATE 12 Jul. 2013
ADDRESS 1106-4, Shimizu, Uozumi-cho, Akashi-shi Hyogo-ken, Japan.		CITIZENSHIP JP

1. WITNESS NAME	WITNESS SIGNATURE	DATE
ADDRESS		CITIZENSHIP

2. WITNESS NAME	WITNESS SIGNATURE	DATE
ADDRESS		CITIZENSHIP

7. FULL NAME OF FIFTH ASSIGNOR, IF ANY Magomed Gabibulayev	ASSIGNOR'S SIGNATURE 	DATE 07/15/2013
ADDRESS 2110 W. Miners Drive, Dunlap, IL 61525		CITIZENSHIP RU

1. WITNESS NAME VIRAL MEHTA	WITNESS SIGNATURE 	DATE 07/15/13
ADDRESS 2205 W KENFIELD CT., PEORIA, IL 61625		CITIZENSHIP INDIA

2. WITNESS NAME MICHAEL L KNUSSMAN	WITNESS SIGNATURE 	DATE 07/15/2013
ADDRESS 331 E ELLER DRIVE EAST PEORIA, IL 61611		CITIZENSHIP USA