

## PATENT ASSIGNMENT

Electronic Version v1.1  
 Stylesheet Version v1.1

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>Mo Wei</td> <td>12/13/2012</td> </tr> <tr> <td>Michael Taylor</td> <td>12/17/2012</td> </tr> <tr> <td>Thandava K. Edara</td> <td>12/12/2012</td> </tr> <tr> <td>Timothy Felty</td> <td>12/14/2012</td> </tr> <tr> <td>Matthew Tinker</td> <td>12/14/2012</td> </tr> </tbody> </table>		Name	Execution Date	Mo Wei	12/13/2012	Michael Taylor	12/17/2012	Thandava K. Edara	12/12/2012	Timothy Felty	12/14/2012	Matthew Tinker	12/14/2012
Name	Execution Date												
Mo Wei	12/13/2012												
Michael Taylor	12/17/2012												
Thandava K. Edara	12/12/2012												
Timothy Felty	12/14/2012												
Matthew Tinker	12/14/2012												
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>61629-6490</td> </tr> </table>		Name:	Caterpillar Inc.	Street Address:	100 N.E. Adams Street	City:	Peoria	State/Country:	ILLINOIS	Postal Code:	61629-6490		
Name:	Caterpillar Inc.												
Street Address:	100 N.E. Adams Street												
City:	Peoria												
State/Country:	ILLINOIS												
Postal Code:	61629-6490												
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>13722477</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13722477								
Property Type	Number												
Application Number:	13722477												
CORRESPONDENCE DATA													
<p>Fax Number: 3126165700  <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i></p> <p>Phone: (312) 616-5743        Email: assignments@leydig.com        Correspondent Name: Charles S. Cohen        Address Line 1: Leydig, Voit &amp; Mayer, Ltd.        Address Line 2: 180 North Stetson Ave., Suite 4900        Address Line 4: Chicago, ILLINOIS 60601-6731</p>													
ATTORNEY DOCKET NUMBER:	710552												
NAME OF SUBMITTER:	Charles S. Cohen												

CH \$40.00 13722477

Total Attachments: 6

source=Executed Assignment#page1.tif

source=Executed Assignment#page2.tif

source=Executed Assignment#page3.tif

source=Executed Assignment#page4.tif

source=Executed Assignment#page5.tif

source=Executed Assignment#page6.tif

## ASSIGNMENT

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

### SYSTEM AND METHOD FOR OPTIMIZING A CUT LOCATION

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 N.E. Adams Street, Peoria, IL 61629-6490** (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;

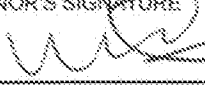
NOW THEREFORE, be it known that for good and valuable consideration the receipt of which from Assignee is hereby acknowledged, I/We, as Assignor(s), have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the Assignee, its lawful successors and assigns,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

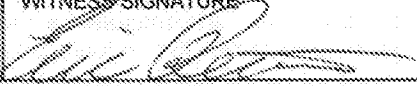
AND, I/WE HEREBY covenant that I/We have the full right to convey the interest assigned by this Assignment, and I/We have not executed and will not execute any agreement in conflict with this Assignment;

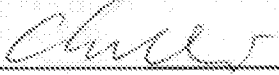
AND, I/WE HEREBY further covenant and agree that I/We will, without further consideration, communicate with Assignee, its successors and assigns, any facts known to me/us respecting this invention, and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver 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 official filing date (U.S. Patent Application No. 13/722,477, filed December 20, 2012).


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

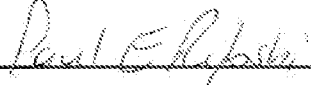
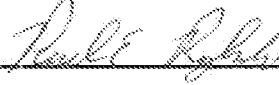
1. FULL NAME OF SOLE OR FIRST ASSIGNOR Mo Wei	ASSIGNOR'S SIGNATURE 	DATE 12/13/2012
ADDRESS 2330 W Annamere Dr., Dunlap, IL 61525		CITIZENSHIP China

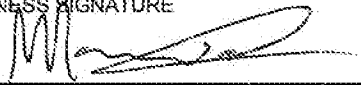
1. WITNESS NAME Eric Peters	WITNESS SIGNATURE 	DATE 12/13/2012
ADDRESS 1029 Hillcrest Dr. Washington, IL 61571		CITIZENSHIP USA

2. WITNESS NAME Qi Chen	WITNESS SIGNATURE 	DATE 12/13/2012
ADDRESS 1124 N Jonathans Way Dunlap, IL 61525		CITIZENSHIP China

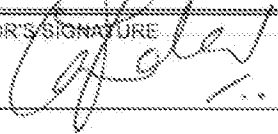
SOLE/JOINT INVENTION  
(Worldwide Rights)  
Attorney Docket No. 710552  
Client Ref. No. 12-0034

1. FULL NAME OF SECOND ASSIGNOR, IF ANY Michael Taylor	ASSIGNOR'S SIGNATURE 	DATE 12-17-12
ADDRESS 7503 W. Hutchinson Ave.		CITIZENSHIP U.S.
Swissvale, PA 15218		

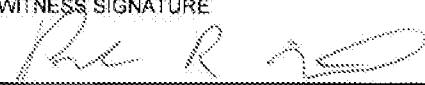
1. WITNESS NAME 	WITNESS SIGNATURE 	DATE 12-17-12
ADDRESS 522 Gettysburg St.		CITIZENSHIP US
Pittsburgh, PA 15206		

2. WITNESS NAME MATTHEW HOWARD	WITNESS SIGNATURE 	DATE 12-17-12
ADDRESS 107 KENSINGTON DRIVE, PITTSBURGH, PA 15276		CITIZENSHIP UK

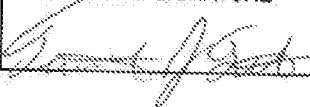
SOLE/JOINT INVENTION  
(Worldwide Rights)  
Attorney Docket No. 710552  
Client Ref. No. 12-0034


1. FULL NAME OF THIRD ASSIGNOR, IF ANY Thandava K. Edara	ASSIGNOR'S SIGNATURE 	DATE 12/12/12
ADDRESS 1800 W. Marigold Dr., #7105		CITIZENSHIP India
Peoria, IL 61615		


1. WITNESS NAME KEVIN T. HALL	WITNESS SIGNATURE 	DATE 12.12.12
ADDRESS 1150 MORDON RD		CITIZENSHIP USA
ALIQUAPPA IA 15001		


2. WITNESS NAME Paul R. Friend	WITNESS SIGNATURE 	DATE 12/12/12
ADDRESS 718 N Oregon Ave		CITIZENSHIP USA
Morton IL 61550		

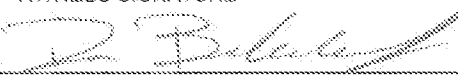
SOLE/JOINT INVENTION  
(Worldwide Rights)  
Attorney Docket No. 710552  
Client Ref. No. 12-0034


1. FULL NAME OF FOURTH ASSIGNOR, IF ANY Timothy Felty	ASSIGNOR'S SIGNATURE 	DATE 12/14/12
ADDRESS 412 Arnold Rd		CITIZENSHIP USA
East Peoria IL 61611		

1. WITNESS NAME William Barnickel	WITNESS SIGNATURE 	DATE 12/14/12
ADDRESS 900 Belsly Way		CITIZENSHIP USA
Metamora IL 61548		

2. WITNESS NAME Loring Johnson	WITNESS SIGNATURE 	DATE 12/14/12
ADDRESS 2019 W Forest Glen Peoria IL		CITIZENSHIP USA

1. FULL NAME OF FIFTH ASSIGNOR, IF ANY Matthew Tinker	ASSIGNOR'S SIGNATURE 	DATE 12-14-2012
ADDRESS 3539 W Mary Knoll Ct Peoria IL 61615		CITIZENSHIP US

1. WITNESS NAME Don Benckendorf	WITNESS SIGNATURE 	DATE 12/14/2012
ADDRESS 633 Grimm Rd Eureka, IL 61530		CITIZENSHIP US

2. WITNESS NAME Ben Boehme	WITNESS SIGNATURE 	DATE 12/14/2012
ADDRESS 520 Elmwood Ct E1 Peoria IL 61738		CITIZENSHIP US