

## 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>Gerry O. McCann</td> <td>04/26/2012</td> </tr> <tr> <td>Yun Liu</td> <td>04/26/2012</td> </tr> <tr> <td>Keith F. Harvey</td> <td>04/26/2012</td> </tr> </tbody> </table>		Name	Execution Date	Gerry O. McCann	04/26/2012	Yun Liu	04/26/2012	Keith F. Harvey	04/26/2012
Name	Execution Date								
Gerry O. McCann	04/26/2012								
Yun Liu	04/26/2012								
Keith F. Harvey	04/26/2012								
RECEIVING PARTY DATA									
Name:	Caterpillar Inc.								
Street Address:	100 N.E. Adams Street								
City:	Peoria								
State/Country:	ILLINOIS								
Postal Code:	61629-9510								
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>13457141</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13457141				
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Application Number:	13457141								
CORRESPONDENCE DATA									
Fax Number:	(202)408-4400								
Phone:	202-408-4000								
Email:	timothy.mcanulty@finnegan.com								
<i>Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent via US Mail.</i>									
Correspondent Name:	Timothy P. McAnulty								
Address Line 1:	901 New York Avenue, NW								
Address Line 4:	Washington, DISTRICT OF COLUMBIA 20001								
ATTORNEY DOCKET NUMBER:	08350.0299-00000								
NAME OF SUBMITTER:	Timothy P. McAnulty								
Total Attachments: 3 source=0299_00_Assignment#page1.tif source=0299_00_Assignment#page2.tif source=0299_00_Assignment#page3.tif									

OP \$40.00 13457141

**ASSIGNMENT**

WHEREAS I/We, the below named inventors, hereinafter referred to as Assignors, have made an invention entitled:

**MACHINE CONTROL SYSTEM UTILIZING INERTIAL YAW SENSOR**

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

WHEREAS, **CATERPILLAR INC.**, a corporation of **Delaware**, whose post office address is **Intellectual Property Department, 100 N.E. Adams Street, Peoria, IL 61629-9510** 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;

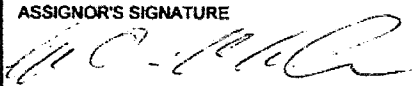
NOW THEREFORE, be it known that for good and valuable consideration the receipt of which from Assignee is hereby acknowledged, I/We, as Assignor(s), have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the Assignee, its lawful successors and assigns, my/our entire right, title, and interest in and to this invention, **Provisional Application No. 61/480,720, filed April 29, 2011**, 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 the attorneys/representatives that I/WE have empowered to prosecute this application to insert here in parentheses the country, application number, and official filing date ( \_\_\_\_\_ Application No. \_\_\_\_\_, filed \_\_\_\_\_ ).

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

1. FULL NAME OF SOLE OR FIRST ASSIGNOR <b>Gerry O. McCANN</b>	ASSIGNOR'S SIGNATURE 	DATE <i>April 26, 2012</i>
ADDRESS <b>13326 N Route 40, Dunlap, IL 61525</b>		CITIZENSHIP <b>USA</b>

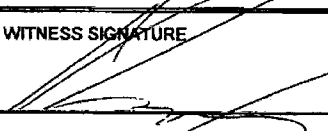
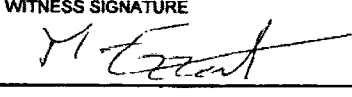
1. WITNESS NAME <i>Alice Kim</i>	WITNESS SIGNATURE <i>[Signature]</i>	DATE <i>4/26/12</i>
ADDRESS <i>11011 N. Jackson Dr. Dunlap, IL 61535</i>		CITIZENSHIP <i>USA</i>
2. WITNESS NAME <i>Balmes Tejada</i>	WITNESS SIGNATURE <i>[Signature]</i>	DATE <i>4/26/12</i>
ADDRESS <i>11500 N. Schupp Ln. Peoria, IL 61615</i>		CITIZENSHIP <i>USA</i>

2. FULL NAME OF SECOND ASSIGNOR <b>Yun LIU</b>	ASSIGNOR'S SIGNATURE <i>[Signature]</i>	DATE <i>April 26, 2012</i>
ADDRESS <b>2210 W. Kenfield Court, Peoria, IL 61615-6408</b>		CITIZENSHIP <b>CHINA</b>

1. WITNESS NAME <i>Alice Kim</i>	WITNESS SIGNATURE <i>[Signature]</i>	DATE <i>4-26-12</i>
ADDRESS <i>11011 N. Jackson Dr. Dunlap, IL 61535</i>		CITIZENSHIP <i>USA</i>

2. WITNESS NAME <i>Balmes Tejada</i>	WITNESS SIGNATURE <i>[Signature]</i>	DATE <i>4/26/12</i>
ADDRESS <i>10500 N. Schupp Ln. Peoria, IL 61613</i>		CITIZENSHIP <i>USA</i>

3. FULL NAME OF THIRD ASSIGNOR <b>Keith F. HARVEY</b>	ASSIGNOR'S SIGNATURE <i>[Signature]</i>	DATE <i>26-Apr-2012</i>
ADDRESS <b>3510 W. Lodi Court, Peoria, IL 61615-3917</b>		CITIZENSHIP <b>USA</b>

1. WITNESS NAME <i>David Soren</i>	WITNESS SIGNATURE 	DATE <i>4/26/2012</i>
ADDRESS <i>107 STERNE BLVD WASHINGTON IL</i>		CITIZENSHIP <i>USA</i>
2. WITNESS NAME <i>Mohamed Abdelgayed</i>	WITNESS SIGNATURE 	DATE <i>4/20/2012</i>
ADDRESS <i>5409 W haymeadow Ln, 2B, Peoria, IL</i>		CITIZENSHIP <i>Egypt</i>