

PATENT ASSIGNMENT

Electronic Version v1.1
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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
Brian Huber	11/21/2011
Matthew L. Hendrickson	11/21/2011
Bradley S. Bailey	11/21/2011
Eric J. Ruth	11/21/2011
RECEIVING PARTY DATA	
Name:	Caterpillar Inc.
Street Address:	100 NE Adams Street
City:	Peoria
State/Country:	ILLINOIS
Postal Code:	61629-5910
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	13308973
CORRESPONDENCE DATA	
Fax Number:	(309)675-1236
Phone:	309-675-5140
Email:	US_Docket_Clerk@cat.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:	Caterpillar Inc./LIELL & MCNEIL Intellec
Address Line 1:	AH9510
Address Line 2:	100 N.E. Adams
Address Line 4:	Peoria, ILLINOIS 61629-9510
ATTORNEY DOCKET NUMBER:	11-0603
NAME OF SUBMITTER:	Kelly J. Smith

OP \$40.00 13308973

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**PATENT
 REEL: 027310 FRAME: 0950**

Total Attachments: 4

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JOINT INVENTION
(Worldwide Rights)
Attorney Docket No. [11-0603]

ASSIGNMENT

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

CONTROL STRATEGY FOR PROVIDING REGENERATIVE ELECTRICAL POWER TO
TROLLEY LINE IN TROLLEY CAPABLE MINING TRUCK

for which 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, ILLINOIS, 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;

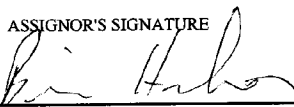
NOW THEREFORE, be it known that for good and valuable consideration the receipt of which from Assignee is hereby acknowledged, We, as Assignor(s), have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the Assignee, its lawful successors and assigns, our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

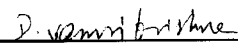
AND, WE HEREBY covenant that We have the full right to convey the interest assigned by this Assignment, and We have not executed and will not execute any agreement in conflict with this Assignment;


AND, WE HEREBY further covenant and agree that We will, without further consideration, communicate with Assignee, its successors and assigns, any facts known to 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;

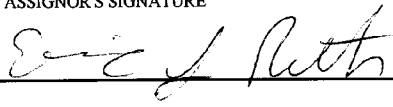
AND, WE HEREBY authorize the attorneys/representatives that WE have empowered to prosecute this application to insert here in parentheses the country, application number, and official filing date (US Application No. 13308973, filed December 1, 2011).

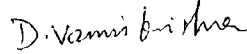
IN TESTIMONY WHEREOF, We have hereunto set our hands.

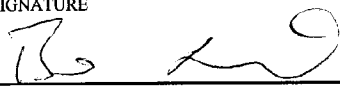
1. FULL NAME OF SOLE OR FIRST ASSIGNOR Brian Huber	ASSIGNOR'S SIGNATURE 	DATE 11/21/2011
ADDRESS 6653 Majestic Way		CITIZENSHIP US
Carpentersville, IL 60110		

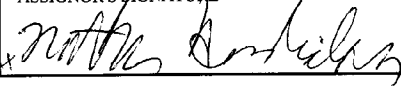
1. WITNESS NAME VAMSI DODDAKULA	WITNESS SIGNATURE 	DATE 11/21/11
ADDRESS 1124 N GRANITE ST, DUNLAP, IL-61525		CITIZENSHIP IN

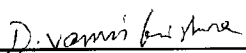
2. WITNESS NAME BO XIE	WITNESS SIGNATURE 	DATE 11/21/2011
ADDRESS 10535 N LIVERPOOL DR, PEORIA, IL, 61615		CITIZENSHIP CHINA

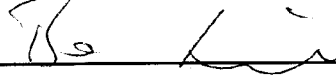
2. FULL NAME OF SECOND ASSIGNOR, IF ANY Eric J. Ruth	ASSIGNOR'S SIGNATURE 	DATE 11/21/11
ADDRESS 503 Denver Ct.		CITIZENSHIP US
Peoria, IL 61607		

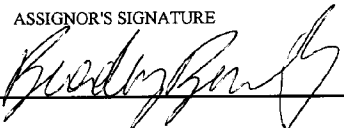
1. WITNESS NAME VAMSI DODDAKULA	WITNESS SIGNATURE 	DATE 11/21/11
ADDRESS 1124 N GRANITE ST, DUNLAP, IL-61525		CITIZENSHIP IN

2. WITNESS NAME Bo XZE	WITNESS SIGNATURE 	DATE 11/21/2011
ADDRESS 10535 N LIVERPOOL DR, PEORIA, IL 61615		CITIZENSHIP CHINA

3. FULL NAME OF THIRD ASSIGNOR, IF ANY Matthew L. Hendrickson	ASSIGNOR'S SIGNATURE 	DATE 11/21/2011
ADDRESS 11202 N. Northtrail Dr. Dunlap, IL 61525		CITIZENSHIP US

1. WITNESS NAME VAMSI DADDAKULA	WITNESS SIGNATURE 	DATE 11/21/11
ADDRESS 11211 N GRANITE ST, DUNLAP, IL 61525		CITIZENSHIP IN

2. WITNESS NAME Bo XZE	WITNESS SIGNATURE 	DATE 11/21/2011
ADDRESS 10535 N LIVERPOOL DR, PEORIA, IL 61615		CITIZENSHIP CHINA

4. FULL NAME OF FOURTH ASSIGNOR, IF ANY Bradley S. Bailey	ASSIGNOR'S SIGNATURE 	DATE 11/21/11
ADDRESS 751 W. Joan Ct. Apt. 308 Peoria, IL 61614		CITIZENSHIP US

1. WITNESS NAME	WITNESS SIGNATURE	DATE
VANISI DODDAKULA	<i>D. Vamsi Krishna</i>	11/21/11
ADDRESS		CITIZENSHIP
11211 N GRANISE ST, DUNLAP, IL-61525		TN

2. WITNESS NAME	WITNESS SIGNATURE	DATE
BO XZE	<i>Bo Xze</i>	11/21/2011
ADDRESS		CITIZENSHIP
10535 N LIVERPOOL PR, PLOZZA, IL, 61615		CHINA