

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>Andrew M. Denis</td> <td>02/28/2013</td> </tr> <tr> <td>Thomas W. Manning</td> <td>02/28/2013</td> </tr> <tr> <td>Ian Aguirre</td> <td>02/28/2013</td> </tr> <tr> <td>Rick E. Jeffs</td> <td>02/28/2013</td> </tr> <tr> <td>Nagaraju Manchikanti</td> <td>02/28/2013</td> </tr> </tbody> </table>		Name	Execution Date	Andrew M. Denis	02/28/2013	Thomas W. Manning	02/28/2013	Ian Aguirre	02/28/2013	Rick E. Jeffs	02/28/2013	Nagaraju Manchikanti	02/28/2013
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Ian Aguirre	02/28/2013												
Rick E. Jeffs	02/28/2013												
Nagaraju Manchikanti	02/28/2013												
RECEIVING PARTY DATA													
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>13782251</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13782251								
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Application Number:	13782251												
CORRESPONDENCE DATA													
Fax Number:	3126165700												
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>													
Phone:	(312) 616-5748												
Email:	assignments@leydig.com												
Correspondent Name:	J. Karl Gross												
Address Line 1:	Leydig, Voit & Mayer, Ltd.												
Address Line 2:	180 North Stetson Ave., Suite 4900												
Address Line 4:	Chicago, ILLINOIS 60601-6731												
ATTORNEY DOCKET NUMBER:	711984												
NAME OF SUBMITTER:	J. Karl Gross												

CH \$40.00 13782251

Total Attachments: 6

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ASSIGNMENT

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

SYSTEM AND METHOD FOR ACCOMMODATING AFTERTREATMENT BRICKS

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;

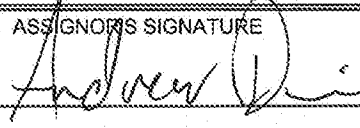
NOW THEREFORE, be it known that for good and valuable consideration the receipt of which from Assignee is hereby acknowledged, I/We, as Assignor(s), have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the Assignee, its lawful successors and assigns,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

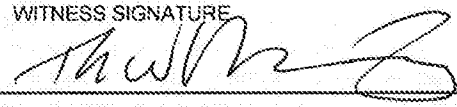
AND, I/WE HEREBY covenant that I/We have the full right to convey the interest assigned by this Assignment, and I/We have not executed and will not execute any agreement in conflict with this Assignment;

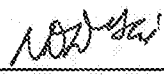
AND, I/WE HEREBY further covenant and agree that I/We will, without further consideration, communicate with Assignee, its successors and assigns, any facts known to me/us respecting this invention, and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver 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. 13/782,251 filed March 1, 2013).

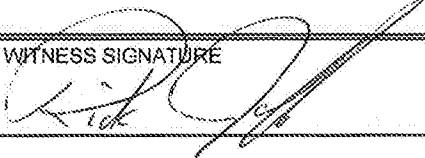
IN TESTIMONY WHEREOF, I/We have hereunto set our hands.

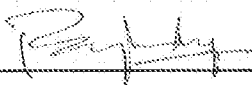
1. FULL NAME OF SOLE OR FIRST ASSIGNOR Andrew M. Denis	ASSIGNOR'S SIGNATURE 	DATE 02/28/2013
ADDRESS 407 E. Forest Hill Ave.		CITIZENSHIP U.S.
Peoria, IL 61614		

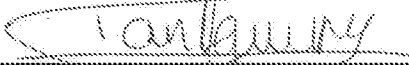
1. WITNESS NAME Thomas W Manning	WITNESS SIGNATURE 	DATE 2/28/2013
ADDRESS 1421 Woodland Knolls Rd		CITIZENSHIP USA
Metamora, IL 61548		

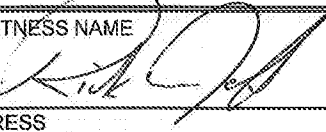

2. WITNESS NAME Neil Desai	WITNESS SIGNATURE 	DATE 2/28/2013
ADDRESS 11617 N Dunmore Drive		CITIZENSHIP
Dunlap, IL 61525		

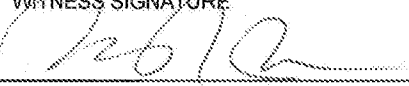
1. FULL NAME OF SECOND ASSIGNOR, IF ANY Thomas W. Manning	ASSIGNOR'S SIGNATURE 	DATE 2-28-13
ADDRESS 1421 Woodland Knolls Rd.		CITIZENSHIP U.S.
Metamora, IL 61548		


1. WITNESS NAME Rick Jeffs	WITNESS SIGNATURE 	DATE 28 FEB 2013
ADDRESS 123 W. MORNINGSIDE DR.		CITIZENSHIP USA
PEORIA, IL 61614		


2. WITNESS NAME Rajdeep Pradhan	WITNESS SIGNATURE 	DATE 28 Feb 2013
ADDRESS 7021 N. Buckeye Dr		CITIZENSHIP INDIA
EDWARDS, IL-61528		

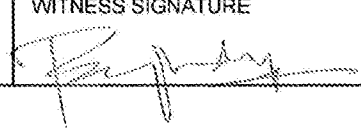
1. FULL NAME OF THIRD ASSIGNOR, IF ANY Ian Aguirre	ASSIGNOR'S SIGNATURE 	DATE Feb 28, 2013
ADDRESS 2707 W STONEMENCE CT		CITIZENSHIP USA
PEORIA, IL 61615		

1. WITNESS NAME  RICK JEFFS	WITNESS SIGNATURE 	DATE 28 FEB 2013
ADDRESS 123 W MORNINGSIDE DR		CITIZENSHIP USA
PEORIA, IL 61614		

2. WITNESS NAME RAY ISADA	WITNESS SIGNATURE 	DATE 28 FEB 13
ADDRESS 417 W. SPENWATER DR		CITIZENSHIP USA
PEORIA, IL 61615		

1. FULL NAME OF FOURTH ASSIGNOR, IF ANY Rick E. Jeffs	ASSIGNOR'S SIGNATURE 	DATE 28 FEB 2013
ADDRESS 123 W. Morningside Dr.		CITIZENSHIP U.S.
Peoria, IL 61614		

1. WITNESS NAME RAY ISADA	WITNESS SIGNATURE 	DATE 28 FEB 13
ADDRESS 4117 W. STONEWATER DR.		CITIZENSHIP USA
PEORIA, IL 61615		

2. WITNESS NAME Rajdeep Pradhan	WITNESS SIGNATURE 	DATE 28 FEB 13
ADDRESS 7021 N. Buckeye Dr		CITIZENSHIP INDIA
EDWARDS, IL 61528		

1. FULL NAME OF FIFTH ASSIGNOR, IF ANY Nagaraju Manchikanti	ASSIGNOR'S SIGNATURE <i>M. Nagaraju</i>	DATE 2-28-13
ADDRESS 6817 N Terra Vista Dr, APT 606, Peoria, IL 61614		CITIZENSHIP INDIA

1. WITNESS NAME Thomas W Manning	WITNESS SIGNATURE <i>T W Manning</i>	DATE 2-28-13
ADDRESS 1421 Woodland Knolls Rd Metamora IL 61548		CITIZENSHIP USA

2. WITNESS NAME Rahul R Pillai	WITNESS SIGNATURE <i>Rahul R Pillai</i>	DATE 02/28/13
ADDRESS 2979 W CANNES DR APT #29 PEORIA, IL 61615		CITIZENSHIP INDIA