

U.S. PTO

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U.S. Department of Commerce  
 Patent and Trademark Office  
 Attorney Docket No. 08350.8291-00000  
 Attorney Customer Number: 58,982

Mail Stop Assignment Recordation Service

To the Director of the U.S. Patent and  
 Please record the attached original document.

103513090

1. Name of conveying party: (1) Andrew Gordon SHULL		2. Name and address of receiving party:  Name: Caterpillar Inc.	
Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Internal Address:	
3. Nature of conveyance:		Street Address: 100 N.E. Adams Street	
<input checked="" type="checkbox"/> Assignment	<input type="checkbox"/> Merger	City: Peoria	
<input type="checkbox"/> Security Agreement	<input type="checkbox"/> Change of Name	State: IL	Zip Code: 61629-6490
<input type="checkbox"/> Other:		Additional name(s) & Address(es) attached?	
Execution Dates: (1) June 27, 2008		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
4. Application number(s) or patent number(s): If this document is being filed together with a new application, the execution date of the application: (1) June 27, 2008			
A. Patent Application Number(s):		B. Patent Number(s):	
Additional numbers attached?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
5. Name and address of party to whom correspondence concerning document should be mailed:		6. Total number of applications and registrations involved: One (1)	
Name: Joshua L. Goldberg		7. Total fee (37 CFR 1.21(h) and 3.41): \$40	
Internal Address: FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER, L.L.P.		<input checked="" type="checkbox"/> Enclosed (Please charge any deficiency to our deposit account)	
Street Address: 901 New York Avenue, N.W.		<input type="checkbox"/> Authorized to be charged to deposit account	
City: Washington, D.C.			
State: Zip: 20001-4413		8. Deposit Account No.: 06-0916	
9. Statement and signature.  To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.			
Joshua L. Goldberg Reg. No. 59,369		Signature 	
		Date June 30, 2008	
Total number of pages including cover sheet, attachments and documents: 3			

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PATENT  
 REEL: 021233 FRAME: 0110

## ASSIGNMENT

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

### DIGGING CONTROL SYSTEM

for which I executed an application for United States Letters Patent concurrently herewith; and

WHEREAS, Caterpillar Inc., a corporation of Delaware whose post office address is 100 N.E. Adams Street, Peoria, IL 61629-8490 (hereinafter referred to as Assignee), is desirous of securing the entire right, title, and interest in and to this invention in all countries throughout the world, and in and to the application for United States Letters Patent on this invention and the Letters Patent to be issued upon this application;

NOW THEREFORE, be it known that for and in consideration of the sum of One Dollar (\$1.00) in hand paid and other good and valuable consideration the receipt of which from Assignee is hereby acknowledged, I, as Assignor, 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 entire right, title, and interest in and to this invention, and this application, and all divisions, and continuations thereof, and all Letters Patent of the United States which may be granted thereon, and all reissues thereof, and all rights to claim priority on the basis of this application, and all applications for Letters Patent which may hereafter be filed for this invention in any foreign country and all Letters Patent which may be granted on this invention in any foreign country, and all extensions, renewals, and reissues thereof; and I hereby authorize and request the Commissioner of Patents and Trademarks of the United States and any official of any foreign country whose duty it is to issue patents on applications as described above, to issue all Letters Patent for this invention to Assignee, its successors and assigns, in accordance with the terms of this Assignment;

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

AND, I HEREBY further covenant and agree that I will, without further consideration, communicate with Assignee, its successors and assigns, any facts known to me 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 the United States and any foreign country, it being understood that any expense incident to the execution of such papers shall be borne by the Assignee, its successors and assigns.

IN TESTIMONY WHEREOF, I have hereunto set my hand.

1. FULL NAME OF SOLE OR FIRST ASSIGNOR Andrew Gordon Shull	ASSIGNOR'S SIGNATURE <i>Andrew G. Shull</i>	DATE June 27, 2008
ADDRESS 6 Oxford Ct., Washington, IL 61571		CITIZENSHIP United States

1. WITNESS NAME <i>Chris Paen</i>	WITNESS SIGNATURE <i>Chris Paen</i>	DATE <i>6/27/08</i>
ADDRESS <i>2401 W. Alta Rd Apt. 205</i>		CITIZENSHIP <i>United States</i>
<i>Peoria, IL 61615</i>		

2. WITNESS NAME <i>Eric Davison</i>	WITNESS SIGNATURE <i>Eric Davison</i>	DATE <i>6/27/08</i>
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