

PATENT ASSIGNMENT

Electronic Version v1.1

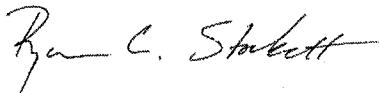
Stylesheet Version v1.1

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>Patrick OPDENBOSCH</td><td>08/03/2011</td></tr><tr><td>Michael L. KNUSSMAN</td><td>08/17/2011</td></tr><tr><td>Joshua DIERKING</td><td>08/08/2011</td></tr></tbody></table>	Name	Execution Date	Patrick OPDENBOSCH	08/03/2011	Michael L. KNUSSMAN	08/17/2011	Joshua DIERKING	08/08/2011					
Name	Execution Date												
Patrick OPDENBOSCH	08/03/2011												
Michael L. KNUSSMAN	08/17/2011												
Joshua DIERKING	08/08/2011												
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>Internal Address:</td><td>Intellectual Property Department</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>61629-9510</td></tr></table>	Name:	Caterpillar Inc.	Street Address:	100 N.E. Adams Street	Internal Address:	Intellectual Property Department	City:	Peoria	State/Country:	ILLINOIS	Postal Code:	61629-9510	
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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>13222945</td></tr></tbody></table>	Property Type	Number	Application Number:	13222945									
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Application Number:	13222945												
CORRESPONDENCE DATA													
Fax Number: (202)408-4400 <i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>													
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ATTORNEY DOCKET NUMBER:	08350.0336-00000												
NAME OF SUBMITTER:	Virginia McNelis-Clark												
Total Attachments: 4 source=0336assignment#page1.tif source=0336assignment#page2.tif source=0336assignment#page3.tif source=0336assignment#page4.tif													

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PATENT
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FORM PTO-1595 1-31-92		RECORDATION FORM COVER SHEET PATENTS ONLY		U.S. Department of Commerce Patent and Trademark Office Attorney Docket No. 08350.0336-00000 Attorney Customer Number: 58,982	
To the Director of the U.S. Patent and Trademark Office: Please record the attached original documents or copy thereof.				Mail Stop Assignment Recordation Services	
1. Name of conveying party: a) Patrick OPDENBOSCH b) Michael L. KNUSSMAN c) Joshua DIERKING			2. Name and address of receiving party(ies): Name: Caterpillar Inc.		
Additional name(s) of conveying party(ies) attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			Internal Address: Intellectual Property Department		
3. Nature of conveyance: <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <input checked="" type="checkbox"/> Assignment </div> <div style="width: 45%;"> <input type="checkbox"/> Merger </div> </div> <div style="display: flex; justify-content: space-between; margin-top: 5px;"> <div style="width: 45%;"> <input type="checkbox"/> Security Agreement </div> <div style="width: 45%;"> <input type="checkbox"/> Change of Name </div> </div> <div style="margin-top: 5px;"> <input type="checkbox"/> Other: </div>			Street Address: 100 N.E. Adams Street City: Peoria <div style="display: flex; justify-content: space-between;"> <div style="width: 30%;">State: IL</div> <div style="width: 30%;">Zip Code: 61629-9510</div> </div>		
Execution Date: a) August 3, 2011 b) August 17, 2011 c) August 8, 2011			Additional name(s) & Address(es) attached? <div style="display: flex; justify-content: space-around;"> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No </div>		
Application number(s) or patent number(s): If this document is being filed together with a new application, the execution date of the application: a) August 3, 2011; b) August 17, 2011; c) August 8, 2011					
A. Patent Application Number(s): <div style="text-align: right;">Additional numbers attached?</div>			B. Patent Number(s): <div style="text-align: right;">Additional numbers attached?</div>		
4. Name and address of party to whom correspondence concerning document should be mailed: Name: Christopher P. Isaac Internal Address: FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER, L.L.P. Street Address: 901 New York Avenue, N.W. City: Washington, D.C. State: Zip: 20001			Total number of applications and registrations involved: 1 5. Total fee (37 CFR 3.41): \$40 <input checked="" type="checkbox"/> Enclosed (Please charge deficiency to deposit account) <input type="checkbox"/> Authorized to be charged to deposit account		
6. Deposit Account No. 06-0916			7. 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.		
Ryan C. Stockett, Reg. No. 53,642			 _____ Signature		August 31, 2011 _____ Date
Total number of pages including cover sheet, attachments and documents: 4					

ASSIGNMENT

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

METERLESS HYDRAULIC SYSTEM HAVING RESTRICTED PRIMARY MAKEUP

for which I executed an application for United States Letters Patent concurrently herewith or filed an application for United States Letters Patent on () (Serial No.); 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 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, provisional application Serial No. , filed , 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 the above provisional application, as well as 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/We have not executed and will not execute any agreement in conflict with this Assignment;




AND, I HEREBY further covenant and agree that I/We 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 hands.




1. FULL NAME OF FIRST ASSIGNOR Patrick OPDENBOSCH	ASSIGNOR'S SIGNATURE <i>P. OPDENBOSCH</i>	DATE 8/3/2011
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SOLE/JOINT INVENTION
(Worldwide Rights)
Attorney Docket No. 08350.0336
Client Ref. No. 11-0874

1. WITNESS NAME NICHOLAS F. BUSCH	WITNESS SIGNATURE 	DATE 8/3/2011
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2. WITNESS NAME DAVID E AULT	WITNESS SIGNATURE 	DATE 8/3/2011
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2. FULL NAME OF SECOND ASSIGNOR Michael L. KNUSSMAN	ASSIGNOR'S SIGNATURE 	DATE 8/17/2011
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1. WITNESS NAME BRYAN E. NELSON	WITNESS SIGNATURE 	DATE 8/17/2011
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2. WITNESS NAME Matthew Kontz	WITNESS SIGNATURE 	DATE 8/17/2011
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Attorney Docket No. 08350.0336
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3. FULL NAME OF THIRD ASSIGNOR Joshua DIERKING	ASSIGNOR'S SIGNATURE 	DATE 8-8-11
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1. WITNESS NAME Jeffrey Borden	WITNESS SIGNATURE 	DATE 8/8/2011
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2. WITNESS NAME Eric Bystrom	WITNESS SIGNATURE 	DATE 8 Aug 2011
ADDRESS 1204 N Old Trail Rd E. Peoria, IL 61611		CITIZENSHIP USA