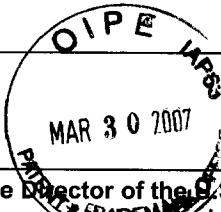


04-05-2007



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U.S. Department of Commerce  
Patent and Trademark Office  
Attorney Docket No. 08350.5822-00000  
Attorney Customer Number: 58,982

To the Director of the U.S. Patent and Trademark Office:  
Please record and attach original documents or copy thereof.

Mail Stop Assignment Recordation Services

1. Name of conveying parties: (1) James Donald Dattilo, (2) Shawn I. Cullen (3) Norval Paul Thomson, (4) Kenneth K. Her (5) Marc Daniel Proud, (6) Arvil Duane Wilson, and (7) Wendell Dean Stahl		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: Intellectual Property Department	
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? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Execution Date: (1) March 9, 2007 (5) March 12, 2007 (2) March 9, 2007 (6) March 9, 2007 (3) March 12, 2007 (7) March 9, 2007 (4) March 9, 2007			

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:

A. Patent Application Number(s):

B. Patent Number(s):

11646534

Additional numbers attached?

☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed:

6. Total number of applications and registrations involved: 1

Name: Christopher P. Isaac

7. Total fee (37 CFR 1.21(h) and 3.41): \$40

Internal Address: FINNEGAN, HENDERSON, FARABOW, GARRETT &amp; DUNNER, L.L.P.

☒ Enclosed (Please charge deficiency to deposit account 06-0916)

Street Address: 901 New York Avenue, N.W.

☐ 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.

04/02/2007 AWONDAF1 00000050 11646534

02 FC:0021

40.00 OP

Neil T. Powell  
Reg. No. 45,020

Signature

March 30, 2007

Date

Total number of pages including cover sheet, attachments and documents: 11

01/2005

PATENT  
REEL: 019135 FRAME: 0321

## ASSIGNMENT

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

### MOTION-CONTROL SYSTEM

for which We filed an application for United States Letters Patent on December 28, 2006 (Application No. 11/646,534); and

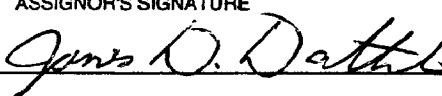
WHEREAS, Caterpillar Inc., a corporation of Delaware whose post office address is Intellectual Property Department, 100 N.E. Adams Street, Peoria, IL 61629-6490 (hereinafter referred to as Assignee), is desirous of securing the entire right, title, and interest in and to this invention in all countries 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, We, as Assignors, 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, provisional application Serial No. \_\_\_\_\_, filed \_\_\_\_\_ (if any), 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 (if any), 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 We 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, 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 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, We have hereunto set our hands.

1. FULL NAME OF FIRST ASSIGNOR James Donald Dattilo	ASSIGNOR'S SIGNATURE 	DATE 3-9-2007
ADDRESS 501 Mayfair Court, Metamora, IL 61548		CITIZENSHIP USA

1. WITNESS NAME <i>Kenneth Her</i>	WITNESS SIGNATURE <i>[Signature]</i>	DATE <i>3/9/07</i>
ADDRESS <i>5225 Rothmere Rd</i> <i>Peoria IL 61615</i>		CITIZENSHIP <i>US</i>

2. WITNESS NAME <i>Arnold Wilson</i>	WITNESS SIGNATURE <i>Arnold Wilson</i>	DATE <i>3/9/07</i>
ADDRESS <i>905 TRUMAN DR</i> <i>Pekin, IL 61554</i>		CITIZENSHIP <i>US</i>

2. FULL NAME OF SECOND ASSIGNOR <b>Shawn I. Cullen</b>	ASSIGNOR'S SIGNATURE <i>Shawn I. Cullen</i>	DATE <i>9 March 2007</i>
ADDRESS <b>807 North Cooper Street, Peoria, IL 61606</b>		CITIZENSHIP <b>U.S.</b>

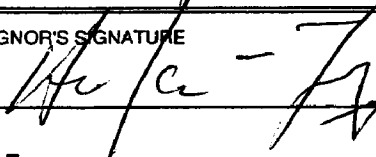
1. WITNESS NAME <i>Kenneth Her</i>	WITNESS SIGNATURE <i>[Signature]</i>	DATE <i>3/9/07</i>
ADDRESS <i>5225 Rothmere Rd</i> <i>Peoria IL 61615</i>		CITIZENSHIP <i>US</i>


2. WITNESS NAME <i>ARNOLD WILSON</i>	WITNESS SIGNATURE <i>Arnold Wilson</i>	DATE <i>3/9/07</i>
ADDRESS <i>905 TRUMAN DR</i> <i>Pekin, IL 61554</i>		CITIZENSHIP <i>US</i>


3. FULL NAME OF THIRD ASSIGNOR <b>Norval Paul Thomson</b>	ASSIGNOR'S SIGNATURE	DATE
ADDRESS <b>4809 Cedar Hills Drive, Dunlap, IL 61525</b>		CITIZENSHIP <b>USA</b>

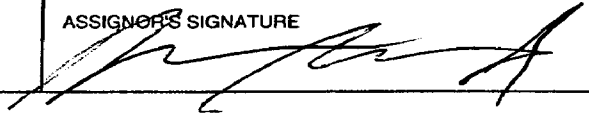
1. WITNESS NAME	WITNESS SIGNATURE	DATE
ADDRESS		CITIZENSHIP

2. WITNESS NAME	WITNESS SIGNATURE	DATE
ADDRESS		CITIZENSHIP

4. FULL NAME OF FOURTH ASSIGNOR Kenneth K. Her	ASSIGNOR'S SIGNATURE 	DATE 3/9/07
ADDRESS 5225 North Rothmere Road, Peoria, IL 61615		CITIZENSHIP USA

1. WITNESS NAME JAMES D. DATILE	WITNESS SIGNATURE 	DATE 3/9/2007
ADDRESS 501 MAYFAIR CT MSTAMORA IL 61548		CITIZENSHIP USA

2. WITNESS NAME Shawn I. Allen	WITNESS SIGNATURE 	DATE 9 March 2007
ADDRESS 807 N. Cooper St. Peoria, IL		CITIZENSHIP USA

5. FULL NAME OF FIFTH ASSIGNOR Marc Daniel Proud	ASSIGNOR'S SIGNATURE 	DATE 3-12-07
ADDRESS 10810 South Glasford Road, Glasford, IL 61533		CITIZENSHIP USA

1. WITNESS NAME <u>JAMES D. DATTOLO</u>	WITNESS SIGNATURE <u>James D. Datto</u>	DATE <u>3-12-07</u>
ADDRESS <u>501 MAYFAIR CT</u> <u>MTAMORA IL 61548</u>		CITIZENSHIP <u>USA</u>

2. WITNESS NAME <u>MUNIR KADERBUNGI</u>	WITNESS SIGNATURE <u>Munir Kaderbungi</u>	DATE <u>03/12/07</u>
ADDRESS <u>625 N Big Hollow Rd Apt 108</u> <u>Peoria, IL 61615</u>		CITIZENSHIP <u>TANZANIA</u>

6. FULL NAME OF SIXTH ASSIGNOR <u>Arvil Duane Wilson</u>	ASSIGNOR'S SIGNATURE <u>Arvil Duane Wilson</u>	DATE <u>9 March 07</u>
ADDRESS <u>905 Truman Drive, Pekin, IL 61544</u>		CITIZENSHIP <u>USA</u>

1. WITNESS NAME <u>JAMES D. DATTOLO</u>	WITNESS SIGNATURE <u>James D. Datto</u>	DATE <u>3-9-2007</u>
ADDRESS <u>501 MAYFAIR CT</u> <u>MTAMORA IL 61548</u>		CITIZENSHIP <u>USA</u>

2. WITNESS NAME <u>WENDELL STAHL</u>	WITNESS SIGNATURE <u>Wendell Stahl</u>	DATE <u>3/9/07</u>
ADDRESS <u>RR1, Box 51</u> <u>Bradford, IL 61421</u>		CITIZENSHIP <u>USA</u>

7. FULL NAME OF SEVENTH ASSIGNOR <u>Wendell Dean Stahl</u>	ASSIGNOR'S SIGNATURE <u>Wendell Stahl</u>	DATE <u>3/9/07</u>
ADDRESS <u>Rural Route 1, Box 51, Bradford, IL 61421</u>		CITIZENSHIP <u>USA</u>

1. WITNESS NAME JAMES D. DATTILO	WITNESS SIGNATURE <i>James D. Dattilo</i>	DATE 3-9-2007
ADDRESS 501 MAYFAIR CT METAMORA IL 61548		CITIZENSHIP USA

2. WITNESS NAME Kenneth Her	WITNESS SIGNATURE <i>Kenneth Her</i>	DATE 3/9/07
ADDRESS 5225 Rothmere Rd Peoria IL 61615		CITIZENSHIP U.S.

## ASSIGNMENT

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

### MOTION-CONTROL SYSTEM

for which We filed an application for United States Letters Patent on December 28, 2006 (Application No. 11/646,534); and

WHEREAS, Caterpillar Inc., a corporation of Delaware whose post office address is Intellectual Property Department, 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 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, We, as Assignors, 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, provisional application Serial No. \_\_\_\_\_, filed \_\_\_\_\_ (if any), 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 (if any), 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 We 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, 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 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, We have hereunto set our hands.

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2. WITNESS NAME	WITNESS SIGNATURE	DATE
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2. FULL NAME OF SECOND ASSIGNOR Shawn I. Cullen	ASSIGNOR'S SIGNATURE	DATE
ADDRESS 807 North Cooper Street, Peoria, IL 61606		CITIZENSHIP U.S.

1. WITNESS NAME	WITNESS SIGNATURE	DATE
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2. WITNESS NAME	WITNESS SIGNATURE	DATE
ADDRESS		CITIZENSHIP

3. FULL NAME OF THIRD ASSIGNOR Norval Paul Thomson	ASSIGNOR'S SIGNATURE 	DATE 3/12/07
ADDRESS 4809 Cedar Hills Drive, Dunlap, IL 61525		CITIZENSHIP USA



1. WITNESS NAME Steven A Daniel	WITNESS SIGNATURE <i>[Signature]</i>	DATE 12 Mar 07
ADDRESS 313 Oakbrook Drive East Peoria, IL		CITIZENSHIP USA

2. WITNESS NAME Daniel P Sergison	WITNESS SIGNATURE <i>[Signature]</i>	DATE 12 Mar 07
ADDRESS 3500 E Washington East Peoria, IL		CITIZENSHIP USA

4. FULL NAME OF FOURTH ASSIGNOR Kenneth K. Her	ASSIGNOR'S SIGNATURE	DATE
ADDRESS 5225 North Rothmere Road, Peoria, IL 61615		CITIZENSHIP USA

1. WITNESS NAME	WITNESS SIGNATURE	DATE
ADDRESS		CITIZENSHIP

2. WITNESS NAME	WITNESS SIGNATURE	DATE
ADDRESS		CITIZENSHIP

5. FULL NAME OF FIFTH ASSIGNOR Marc Daniel Proud	ASSIGNOR'S SIGNATURE	DATE
ADDRESS 10810 South Glasford Road, Glasford, IL 61533		CITIZENSHIP USA

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6. FULL NAME OF SIXTH ASSIGNOR Arvil Duane Wilson	ASSIGNOR'S SIGNATURE	DATE
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2. WITNESS NAME	WITNESS SIGNATURE	DATE
ADDRESS		CITIZENSHIP

7. FULL NAME OF SEVENTH ASSIGNOR Wendell Dean Stahl	ASSIGNOR'S SIGNATURE	DATE
ADDRESS Rural Route 1, Box 51, Bradford, IL 61421		CITIZENSHIP USA

1. WITNESS NAME	WITNESS SIGNATURE	DATE
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