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Please re35 time Michael original documents or copy thereof. 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) Avril Duane Wilson, and (7) Wendeld Dean Stahl Additional name(s) of conveying party(ies) attached? Yes No	· -	13		103391536		:T	Pate Attor Attor	nt and Trade ney Docket No rney Custom	mark Office 5. 08350.5822-00000 er Number: 58,982
(1) James Donald Dattilo, (2) Shawn I. Cullen (3) Norval Paul Thomson, (4) Kenneth K. Her (5) Marc Daniel Proud, (6) Avril Duane Wilson, and (7) Wendeld Dean Stahl Additional name(s) of conveying party(ies) attached?	Plea	ne brector of the bys	d original doc	rauemark Oπice: suments or copy thereof.			Mail Stop A	ssignment R	Recordation Services
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3. Nature of conveyance: Street Address: 100 N.E. Adams Street		(3) Norval Paul Th (5) Marc Daniel Pr	iomson, (4) Kei roud, (6) Arvil D	neth K. Her	Name	ə:	Caterpillar Inc		
3. Nature of conveyance: Street Address: 100 N.E. Adams Street	Add	itional name(s) of conve	eying party(ies)	attached? ☐ Yes ☒ No	Interr	Internal Address: Intellectual Property Department			
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Other:		Assignment	☐ Mer	ger	City:		Peoria		
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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): State: Zip: Z0001-4413 B. Patent Number(s): B. Patent Number(s): B. Patent Number(s): Additional numbers attached? Pes No 6. Total number of applications and registrations involved: 1 Total fee (37 CFR 1.21(h) and 3.41): \$40 Enclosed (Please charge deficiency to deposit account 06-0916) Street Address: Street Address: PinnegAn, Henderson, Farabow, Garrett account 06-0916 Street Address: Vashington, D.C. State: Zip: Zip	Exec	(2) Mar (3) Mar	ch 9, 2007 ch 12, 2007	(6) March 9, 2007			_		
Additional numbers attached? Yes No	4.	Application numbe		umber(s): If this document is b	eing file	d tog	gether with a new	application, t	ne execution date of
5. Name and address of party to whom correspondence concerning document should be mailed: Name: Christopher P. Isaac Internal Address: FINNEGAN, HENDERSON, FARABOW, GARRETT & Enclosed (Please charge deficiency to deposit account 06-0916) Street Address: 901 New York Avenue, N.W. 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. Neil T. Powell Reg. No. 45,020 Total number of pages including cover sheet, attachments and documents: 11	Α.			534	B.	I	Patent Number(s)	:	
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: 20001-4413 B. 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. Neil T. Powell Reg. No. 45,020 Total number of pages including cover sheet, attachments and documents: 11			Add	litional numbers attached?	☐ Ye	5	⊠ No		
Internal Address: FINNEGAN, HENDERSON, FARABOW, GARRETT & DUNNER, L.L.P. Street Address: 901 New York Avenue, N.W. City: Washington, D.C. State: Zip: 20001-4413 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. Neil T. Powell Reg. No. 45,020 Neil T. Powell Reg. No. 45,020 Total number of pages including cover sheet, attachments and documents: 11	5.				6.			pplications an	nd registrations
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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. 84/82/2007 AMONDAF1 888800058 11646534 82 FC:8821 Neil T. Powell Reg. No. 45,020 Total number of pages including cover sheet, attachments and documents: 11	City:	Washingto	n, D.C.		7				
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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	NOW THE
ner good and valuable consideration the receipt of which from Assignee is hereby acknowledged, We, as Assignors,	other good and valu
ve sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the Assignee, its	have sold, assigned
vful successors and assigns, our entire right, title, and interest in and to this invention, provisional application Serial No.	lawful successors a
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the basis of the above provisional application (if any), as well as all rights to claim priority on the basis of this	on the basis of the a
plication, and all applications for Letters Patent which may hereafter be filed for this invention in any foreign country and	application, and all
Letters Patent which may be granted on this invention in any foreign country, and all extensions, renewals, and	all Letters Patent wh
ssues thereof; and We hereby authorize and request the Commissioner of Patents and Trademarks of the United	reissues thereof; an
ates and any official of any foreign country whose duty it is to issue patents on applications as described above, to issue	States and any offic
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.

Full NAME OF FIRST ASSIGNOR James Donald Dattilo	ASSIGNOR'S SIGNATURE Owns (). Dathl	3-9-20e7
ADDRESS 501 Mayfair Court, Metamora, IL 61548	3	CITIZENSHIP USA

Page 1 of 5

1. WITNESS NAME Kenneth Her	WITNESS SIGNATURE LE CL-	DATE 3/9/07
5225 Rothmere	Rel	CITIZENSHIP
	61615	
pa		
2. WITNESS NAME Asvilla Wilson	WITNESS SIGNATURE WILLIAM	DATE 3/9/07
ADDRESS 905 TRUMAN	DR	CITIZENSHIP US
	61554	
2. FULL NAME OF SECOND ASSIGNOR Shawn I. Cullen	ASSIGNOR'S SIGNATURE Cull	9 March 2007
ADDRESS 807 North Cooper Street, Peoria, IL 6	1606	CITIZENSHIP U.S.
1. WITNESS NAME Kenneth Her	WITNESS SIGNATURE C -	DATE 3/9/07
ADDRESS Kenneth Her	WITNESS SIGNATURE Pd Pd	DATE 3/9/07 CITIZENSHIP J.5
ADDRESS 5 225 Rothmere	Jes for - P	CITIZENSHIP
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ADDRESS Kenneth Her Sals Rothmere Peoria ZL 2. WITNESS NAME ARVIL WILSON ADDRESS 905 TRUMA	Ped 61615 WITNESS SIGNATURE Arrift Wilson N DR	CITIZENSHIP 2.5
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ADDRESS Kenneth Her Sals Rothmere Peoria ZL 2. WITNESS NAME ARVIL WILSON ADDRESS 905 TRUMA	Pd 61615 WITNESS SIGNATURE Arrift Wilson N DR	DATE 3/9/07
ADDRESS 5 225 Rothmere Peoria ZL 2. WITNESS NAME ARVIL WILSON ADDRESS 905 TRUMA Pekin, I 3. FULL NAME OF THIRD ASSIGNOR	Pd 61615 WITNESS SIGNATURE Arrift Wilson N DR	DATE 3/9/07
Remeth Her ADDRESS 5 225 Rothmere Peoria ZL 2. WITNESS NAME ARVIL WILSON ADDRESS 905 TRUMA Pekin, I	WITNESS SIGNATURE WILSON WITNESS SIGNATURE WILSON W DR C 61554	DATE 3/9/07 CITIZENSHIP US
ADDRESS 5 225 Rothmere Peoria ZL 2. WITNESS NAME ARVIL WILSON ADDRESS 905 TRUMA Pekin, I 3. FULL NAME OF THIRD ASSIGNOR	Pd 61615 WITNESS SIGNATURE WITNESS SIGNATURE WITNESS SIGNATURE ANDR C. G1554 ASSIGNOR'S SIGNATURE	DATE 3/9/07 CITIZENSHIP US

Page 2 of 5

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1. WITNESS NAME	WITNESS SIGNATURE	DATE
ADDRESS		CITIZENSHIP
2. WITNESS NAME	WITNESS SIGNATURE	DATE
ADDRESS		CITIZENSHIP
		<u> </u>
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 DIDATTILO	WITNESS SIGNATURE	DATE 3/9/2007
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501 MAYFAIR CT		USA
501 MAYFAIR CT METAMORA IL	61548	USA
METAMORA IL		USA
2. WITNESS NAME Shann I. Cullen	WITNESS SIGNATURE Shaw I Will	DATE 9 March 2007
2. WITNESS NAME Shann I. Cullen	WITNESS SIGNATURE Shaw I Will	DATE
METAMORA IL 2. WITNESS NAME Sham I. Cullen	WITNESS SIGNATURE Shaw I Will	DATE 9 March 2007
2. WITNESS NAME Shann I. Cullen	WITNESS SIGNATURE Shaw I Will	DATE 9 March 2007
2. WITNESS NAME Sham I. Cullen ADDRESS 807 N. Cooper S Pedria, IL 5. FULL NAME OF FIFTH ASSIGNOR	WITNESS SIGNATURE Shaw I Will	DATE 9 March 2007
MSTAMORA IL 2. WITNESS NAME Shann I. Cullen ADDRESS 807 N. Cooper S Peorla, IL	WITNESS SIGNATURE Shaw I Will 5+,	DATE 9 March 2007 CITIZENSHIP USA
2. WITNESS NAME Sham I. Cullen ADDRESS 807 N. Cooper S Pedria, IL 5. FULL NAME OF FIFTH ASSIGNOR	WITNESS SIGNATURE Shawn I will ASSIGNORES SIGNATURE	DATE 9 March 2407 CITIZENSHIP USA

Page 3 of 5

1. WITNESS NAME	WITNESS SIGNATURE	DATE
JAMIS D. DATTICE	James & Khille	3-12-07
ADDRESS		CITIZENSHIP
501 MAYEAR CT		USA
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11570 Mary 10 013	78	
	WENTER COMMENTER	l nate
2. WITNESS NAME MUNIK KADERBURGI	WITNESS SIGNATURE Maudania	DATE 03/12/07
ADDRESS		CITIZENSHIP
6625 N Big Hollow Kd	Mpt 108	TANZANIA
feoria, 12 61615		
6. FULL NAME OF SIXTH ASSIGNOR	ASSIGNOR'S SIGNATURE	DATE
Arvil Duane Wilson	Arril Dean Wilson	9 March 07
ADDRESS	1/P/WS/ NS (WWEST - D - V	CITIZENSHIP
905 Truman Drive, Pekin, IL 61544		USA
1. WITNESS NAME	WITNESS SIGNATURE	DATE
JAMES D. DATTILO	WITNESS SIGNATURE Jans D. Dalts	3-9-2007
ADDRESS D. DATTILO	WITNESS SIGNATURE Jans Dhatts	3-9-2007 CITIZENSHIP
JAMES D. DATTILO	WITNESS SIGNATURE Jans Dhatts	3-9-2007
ADDRESS 501 MAYTAIR CT	Jans Dhaths	3-9-2007 CITIZENSHIP
ADDRESS D. DATTILO	61548	3-9-2007 CITIZENSHIP
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ADDRESS D. DATTILO ADDRESS SOI MAYTAIR CT METAMORA IL 2. WITNESS NAME WENDELL STAHL	61548	3-9-2007 CITIZENSHIP USA
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ADDRESS SOI MAYRAIR CT METAMORA IL 2. WITNESS NAME WENDELL STAHL ADDRESS PRI, BOX 51 Bradford, 11 6142	Jans Dhatts 61548 WITNERS SIGNATURE WINDERS LIGHT	DATE 3/5/67 CITIZENSHIP LIST DATE 3/9/07 CITIZENSHIP CITIZENSHIP
ADDRESS SOI MAYRAIL CT METAMORA IL 2. WITNESS NAME WENDELL STAHL ADDRESS PPI, Box 51 Bradford, 1L 61421 7. FULL NAME OF SEVENTH ASSIGNOR Wendell Dean Stahl	Jans Dalts 6 1548 WITNERS SIGNATURE WINDLEY ASSIGNOR'S SIGNATURE Wandley Landey Landey	3-9-2007 CITIZENSHIP USA DATE 3/5/67 CITIZENSHIP US/T

Page 4 of 5

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1. WITNESS NAME JAMES A. DATTOLO	WITNESS SIGNATURE	DATE 3-9-2007
ADDRESS 501 MAYFAR	5	CITIZENSHIP USA
Matamara IL	61548	
2. WITNESS NAME Kenneth Her	WITNESS SIGNATURE	DATE 3/9/07
2. WITNESS NAME Kenneth Her ADDRESS 5225 Rothmere	Her faith	DATE 3/9/07 CITIZENSHIP LJ. 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 con	sideration the receipt of which from Assignee is hereby acknowledge	ged, We, as Assignors,
have sold, assigned, transfer	rred, and set over, and do hereby sell, assign, transfer, and set ove	r unto the Assignee, its
lawful successors and assigr	ns, our entire right, title, and interest in and to this invention, provisi	onal application Serial No.
, filed	(if any), and this application, and all divisions, and continuat	ions thereof, and all
Letters Patent of the United S	States which may be granted thereon, and all reissues thereof, and	all rights to claim priority
on the basis of the above pro	ovisional application (if any), as well as all rights to claim priority on	the basis of this
application, and all applicatio	ons 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 extension	ons, renewals, and
reissues thereof; and We her	reby authorize and request the Commissioner of Patents and Trade	emarks 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 inve	ention 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.

Full NAME OF FIRST ASSIGNOR James Donald Dattilo	ASSIGNOR'S SIGNATURE	DATE
ADDRESS 501 Mayfair Court, Metamora, IL 61548	3	CITIZENSHIP USA

Page 1 of 5

1. WITNESS NAME	WITNESS SIGNATURE	DATE
ADDRESS	CITIZENSHIP	
2. WITNESS NAME	WITNESS SIGNATURE	DATE
ADDRESS	CITIZENSHIP	
2. FULL NAME OF SECOND ASSIGNOR Shawn I. Cullen	ASSIGNOR'S SIGNATURE	DATE
ADDRESS 807 North Cooper Street, Peoria, IL 6	1606	CITIZENSHIP U.S.
1. WITNESS NAME	WITNESS SIGNATURE	DATE
ADDRESS		CITIZENSHIP
2. WITNESS NAME	WITNESS SIGNATURE	DATE
ADDRESS		CITIZENSHIP
3. FULL NAME OF THIRD ASSIGNOR Norval Paul Thomson	ASSIGNOR'S SIGNATURE Nan Thomas	DATE 3/12/07
ADDRESS 4809 Cedar Hills Drive, Dunlap, IL 6152	CITIZENSHIP USA	

Page 2 of 5

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1. WITNESS NAME Steven A Daniel	WITNESS SIGNATURE Oach	DATE 12 Mar 07
ADDRESS 313 Oakbrook	Brive	CITIZENSHIP USA
East Peoria	, 1 (
2. WITNESS NAME, P Sergison	WITNESS SIGNATURES	DATE 12 Mar 07
2. WITNESS NAME Panie PSergison ADDRESS 3500 E Washington	·	CITIZENSHIP US Q
East Peoria, 1		
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
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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, I	L 61533	CITIZENSHIP USA

Page 3 of 5

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1. WITNESS NAME	WITNESS SIGNATURE	DATE
ADDRESS		CITIZENSHIP
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2. WITNESS NAME	WITNESS SIGNATURE	DATE
ADDRESS		CITIZENSHIP
6. FULL NAME OF SIXTH ASSIGNOR Arvil Duane Wilson	ASSIGNOR'S SIGNATURE	DATE
ADDRESS 905 Truman Drive, Pekin, IL 61544		CITIZENSHIP USA
1. WITNESS NAME	WITNESS SIGNATURE	DATE
ADDRESS		CITIZENSHIP
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 614	121	CITIZENSHIP USA

Page 4 of 5

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

Page 5 of 5

PATENT REEL: 019135 FRAME: 0331

RECORDED: 03/30/2007 REEL: