501974196 06/29/2012

PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Brian A. Byers	06/11/2012
David R. Wisley	06/19/2012
Fazal A. Goraya	06/05/2012
Gerard O. McCann	06/06/2012
Justin L. Steinlage	06/05/2012
Kevin Grover	06/14/2012
Nathan S. Pauli	06/06/2012
Yun Liu	06/05/2012

RECEIVING PARTY DATA

Name:	Caterpillar Inc.
Street Address:	100 NE Adams Street
Internal Address:	AH 9510
City:	Peoria
State/Country:	ILLINOIS
Postal Code:	61629

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13538044

CORRESPONDENCE DATA

Fax Number: (309)675-1236 Phone: 309-675-5140

US_Docket_Clerk@cat.com Email:

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent

via US Mail.

Correspondent Name: Caterpillar Inc. Intellectual Property D

Address Line 1: AH 9510

Address Line 2: 100 N.E. Adams Street

REEL: 028471 FRAME: 0398

PATENT

501974196

Address Line 4: PEORIA, ILLINOIS 61629-9510		
ATTORNEY DOCKET NUMBER:	11-1313	
NAME OF SUBMITTER:	Kelly A. Umholtz	
Total Attachments: 16		
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source=11-1313-US-Assignments#page3.tit		
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source=11-1313-US-Assignments#page7.tit		
source=11-1313-US-Assignments#page8.tit		
source=11-1313-US-Assignments#page9.tit		
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source=11-1313-US-Assignments#page11.tif		
source=11-1313-US-Assignments#page12.tif		
source=11-1313-US-Assignments#page13.tif		
source=11-1313-US-Assignments#page14.tif		
source=11-1313-US-Assignments#page15.tif		
source=11-1313-US-Assignments#page16.tif		

PATENT REEL: 028471 FRAME: 0399

WHEREAS we, the below named inventors, (hereinafter referred to as Assignors), have made an invention entitled:

MACHINE CONTROL SYSTEM

for which we will or have filed a patent application; and

WHEREAS, Caterpillar Inc., a Delaware corporation having a place of business at Peoria, State of Illinois, United States of America (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, 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, 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 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, 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 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;

	ie attomeys/representatives that we have empory, application number, and official filing date ().	wered to prosecute this application Application No.
IN TESTIMONY WHEREOF, w	e have hereunto set our hands. ASSIGNOR'S SIGNATURE	DATE
Brian A. Byers	Bi-Bues	6/11/12
ADDRESS		CITIZENSHIP
2262 S Franzy Dr., Decatur, IL 62521		US

1. WITNESS NAME	•	WITNESS SIGNATURE	DATE
LARRY	LANCH	Larry W Lynch	6/11/2012
ADDRESS 5495	RYAN DR	. J V	CITIZENSHIP USA
OREAN	A, II, 6	2554	
2. WITNESS NAME:		WITNESS SIGNATURE	DATE
Mark Highcock		Mad Mills	6/11/2012
ADDRESS 324 Kings Mi	intle Ct.		CITIZENSHIP USA
Mt Zlon , IL	62549		

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MACHINE CONTROL SYSTEM

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to insert here in parentheses the country, application number, and official filing date ().		Application No.	
IN TESTIMONY WHEREOF, we 2. FULL NAME OF SECOND ASSIGNOR	have hereunto set our hands. ASSIGNOR'S SIGNATURE	DATE	
David R. Wisley		6/19/2012	
ADDRESS		CITIZENSHIP	
4707 W Bridalwood Dr.,Peoria,	IL 61615	US	

1. WITNESS NAME	WITNESS SIGNATORE	DATE
Tim Schwartz	10-11V/	6/19/12
ADDRESS	Same	CITIZENSHIP
614 Peoria St., Washi	ngton, 16 0/571	()
£		
2. WITNESS NAME	WITNESS SIGNATURE	DATE
	WITNESS SIGNATURE ROLLY L. March	DATE:
Rodney L. Menold	Rodry L. Merell	
Rodneg L. Menold	Rodry L. Merell	19 Jun 2012

ASSIGNMENT

WHEREAS we, the below named inventors, (hereinafter referred to as Assignors), have made an invention entitled:

MACHINE CONTROL SYSTEM

for which we will or have filed a patent application; and

WHEREAS, Caterpillar Inc., a Delaware corporation having a place of business at Peoria, State of Illinois, United States of America (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;

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	ne attorneys/representatives that we have empowered to y, application number, and official filing date (prosecute this application Application No.
IN TESTIMONY WHEREOF, w	e have hereunto set our hands.	
3 FULL NAME OF THIRD ASSIGNOR Fazal A. Goraya	Assigner's SIGNATURE GORGO CO	DATE 05/2012
ADDRESS	70	CITIZENSHIP
1600 W Blue Sage Drive Apt. 3	116, Peoria, IL	CA

1 WITNESS NAME DARYU BROWER	WITNESS SIGNATURE	6/6/2012
ADDRESS 221 E. HALLOCK	HOLLOW RD. EDEL STEW, 12 6152	6 USA
2. WITNESS NAME	WITNESS SIGNATURE	DATE
2. WITNESS NAME Valuan Pauli	WITNESS SIGNATURE	6/6/2012
1		

WHEREAS we, the below named inventors, (hereinafter referred to as Assignors), have made an invention entitled:

MACHINE CONTROL SYSTEM

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to insert here in parentheses the country,, filed	Application No.	
IN TESTIMONY WHEREOF, we	have hereunto set our hands.	
3. FULL NAME OF FOURTH ASSIGNOR Gerard O. McCann	ASSIGNOR'S SIGNATURE	DATE - JUNE / 6 /2012
ADDRESS	The state	CITIZENSHIP
13326 N. State Rt 40, Dunlap, IL	61525	US

T. WITNESS NAME	WITNESS SIGNATURE	DATE
Alice L Kim	Line Zin	6-6-12
ADDRESS //8// No Sasyon	Dr. Duntan, 22 22525	CITIZENSHIP
1/01/ N Dasmi	<u> </u>	
	·	
2. WITNESS NAME MOTHLEW 5. Phillips	WITNESS SIGNATURE MANAL S. P.M. 19	6/6/12
ADDRESS 7/1/ N. Wildlife X	Peoria IL 6/014	CITIZENSHIP 45A
	7	

WHEREAS we, the below named inventors, (hereinafter referred to as Assignors), have made an invention entitled:

MACHINE CONTROL SYSTEM

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to insert here in parentheses the country application number, and official filing date (

AND, WE HEREBY authorize the attorneys/representatives that we have empowered to prosecute this application

, filed).	And the second s
IN TESTIMONY WHEREOF, we h	nave hereunto set our hands.	
		,
3. FULL NAME OF FIFTH ASSIGNOR	ASSIGNOR'S SIGNATURE	DATE
Justin L. Steinlage		6/9/2012
ADDRESS		CITIZENSHIP

31201 State Route 9, Mackinaw,	IL 61755	US

Application No.

1. WITHESS NAME David L. Dickrell	WITNESS SIGNATURE (LKUL)	6-5-201Z
ADDRESS 136 Glenview Ave		citizenship U.S
East Reoria, IL 6/6/	1	
2 WITNESS NAME KEVIW DAVIS	WITNESS SIGNATURE	DATE 6-5-2012
ADDRESS 700 Grandy/e	<u> </u>	CITIZENSHIP US

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MACHINE CONTROL SYSTEM

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_____, filed).

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to insert here in parentheses the country, application number, and official filing date (______ Application No.

IN TESTIMONY WHEREOF, v	ve have hereunto set our hands.	
3. FULL NAME OF SIXTH ASSIGNOR	ASSIGNOR'S SIENATURE	DAJE /
Kevin Grover		4/14/13
ADDRESS		CITIZENSHIP
1737 Raven Dr., Chambersbur	g, PA 17202	US

		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
1. WITNESS NAME	WITNESS SIGNATURE	DATE
Andrew Clevenge	<u> </u>	0 / 'Y//2.
	-, NC, 28730	<u> </u>
ş	,	
2. WITNESS NAME	WITNESS SIGNATURE	DATE
Ton dutterd	Tony den Hoed	6/14/12
ADDRESS /	,	CITIZENSHIP
1007 N Worth CA	Maine VC	1 A-
4067 N. Westbrook C	. Maize KS	Vs A

WHEREAS we, the below named inventors, (hereinafter referred to as Assignors), have made an invention entitled:

# **MACHINE CONTROL SYSTEM**

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AND, WE HEREBY authorize the attorneys/representatives that we have empowered to prosecute this application

to insert here in parentheses the country,, filed	application number, and official filing date ().	Application No.
IN TESTIMONY WHEREOF, we	have hereunto set our hands.	
3. FULL NAME OF SEVENTH ASSIGNOR	ASSIGNOR'S SIGNATURE	DATE
Nathan S. Pauli		6/6/2012
ADDRESS		CITIZENSHIP
6229 Beacon, Peoría, IL 61604		US

Page 1 of 2

1. WITNESS NAME FAZAL GORAYA	WITNESS SIGNATURE GOVERN	06/05/2012
ADDRESS 1600 W BLUE SAGE DC F	T3116, PEORIA I IL, 61615	CHIZENSHIP CANADA
2. WITNESS NAME DACYL BROWGE	WITNESSIGNATURE  VALUE BOW	DATE / /2012
ADDRESS 221 E HALLOCK H	POLLOW RD. EDELSTEIN, 11 61526	CITIZENSHIP USA

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### MACHINE CONTROL SYSTEM

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to insert here in parentheses the country, application number, and official filing date (_______Application No.

IN TESTIMONY WHEREOF, we	have hereunto set our hands.	
3. FULL NAME OF EIGHTH ASSIGNOR	ASSIGNOR'S SIGNATURE	DATE
Yun Liu	Jan Com	06/05/2012
ADDRESS	······································	CITIZENSHIP
2210 W. Kenfield Court, Peoria,	IL 61615	CN

1. WITNESS NAME	WITNESS SIGNATURE	DATE
Benjamin P. Taylor	Olizonia P. Myle	6/8/2012
ADDRESS 213 Timber Lone Rear, E	ast Pearin, IL 61611	CATIZENSHIP USA
2 WITNESS NAME	WITNESS SIGNATURE	DATE
2. WITNESS NAME ZHENG HU	WITNESS SIGNATURE	DATE 6/5/2012
ZHENG HU ADDRESS	The state of the s	6/5/2012 CITIZENSHIP
ZHEMG HU	The state of the s	6/5/2012

PATENT REEL: 028471 FRAME: 0415

**RECORDED: 06/29/2012**