PATENT ASSIGNMENT

Electronic Version v1.1 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
Igor Dos Santos Ramos	04/30/2012
Andrew A. Knitt	04/30/2012
Wellington Ying-Wei Kwok	04/30/2012
Kaiyu Wang	05/01/2012

RECEIVING PARTY DATA

Name:	Caterpillar Inc.
Street Address:	100 N.E. Adams Street
City:	Peoria
State/Country:	ILLINOIS
Postal Code:	61629-9510

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	13461193

CORRESPONDENCE DATA

Fax Number: (202)408-4400 Phone: 202-408-4000

Email: daniel.tucker@finnegan.com

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

via US Mail.

Correspondent Name: CATERPILLAR/FINNEGAN, HENDERSON, L.L.P.

Address Line 1: 901 New York Avenue, NW

Address Line 4: WASHINGTON, DISTRICT OF COLUMBIA 20001-4413

ATTORNEY DOCKET NUMBER: 08350.0467-00

NAME OF SUBMITTER: Daniel C. Tucker

Total Attachments: 12

PATENT REEL: 028136 FRAME: 0523 OP \$40.00 13461193

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PATENT REEL: 028136 FRAME: 0524

ASSIGNMENT			
WHEREAS We, the below named inventor entitled:	ors, hereinafter referred to as As	signors, have ma	ade an invention
SYSTEMS AND METHODS FOR D	ETECTING ULTRA CAPACITO	R ÇELL SHORT	CIRCUITS
for which We will or have filed a patent application	n; and		the same of the sa
WHEREAS, Caterpillar Inc., a corporation Department, 100 N.E. Adams Street, Peoria, III securing the entire right, title, and interest in and and any and all patents to be issued upon this appropriate to be issued upon the same street.	inois 61629-9510 (hereinafter repeated to this invention, and in and to the	referred to as Ass ne patent applicat	signee), is desirous of tion for this invention
NOW THEREFORE, be it known that for hereby acknowledged, We, as Assignors, have so transfer, and set over unto the Assignee, its lawful invention, provisional application Serial No. and continuations thereof, and all patents which reclaim priority in any country or jurisdiction or pate which may hereafter be filed for this invention in a granted on this invention in any country or jurisdiction and We hereby authorize and request any official patents on applications as described above, to issign accordance with the terms of this Assignment;	old, assigned, transferred, and soll successors and assigns, our ender the successors and assigns, our ender the successors and assigns, our ender the successors and all enter the successor and all extension or patent of any country or jurisdiction or patent of any country or jurisdiction or	et over, and do hentire right, title, a, and this applic reissues thereof, lication, and all a ent office and all patent office who patent office who	nereby sell, assign, and interest in and to this cation, and all divisions, as well as all rights to applications for patents patents which may be s, and reissues thereof; as eduty it is to issue
AND, WE HEREBY covenant that We ha We have not executed and will not execute any a			y this Assignment, and
AND, WE HEREBY further covenant and Assignee, its successors and assigns, any facts is sign all lawful papers when called upon to do so, desirable to perfect the title to this invention in sa continuation, and reissue applications, make all risuccessors and assigns, to obtain and enforce preparent office, it being understood that any expensions, its successors and assigns;	known to us respecting this invertiexecute and deliver any and all id Assignee, its successors or as aghtful oaths and generally do ever patent protection for this in	ntion, and testify papers that may ssigns, execute a verything possible evention in any co	in any legal proceeding, be necessary or all divisional, e to aid Assignee, its buntry or jurisdiction or
AND, WE HEREBY authorize the attorne application to insert here in parentheses the cour Application No, filed	try, application number, and offi		
IN TESTIMONY WHEREOF, We have he	ereunto set our hands.		
1. FULL NAME OF SOLE OR FIRST ASSIGNOR	ASSIGNOR'S SIGNATURE		DATE
Igor Dos Santos Ramos	fax F. Zan		9-130/12
ADDRESS 12400 Marion Lane W, Apt. 3315, Minnet	onka, MN 55305		CITIZENSHIP U.S.A.

Page 1 of 4

1. WITNESS NAME	WITNESS SIGNATURE	DATE
LATANYA TURNER	La Tenya Duru	4/30112
SS MAGNOLIA AVE W		CITIZENSHIP US
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ST. PAUL MN SS/17		
2. WITNESS NAME	WITNESS SIGNATURE	DATE
Roman Chebykin	chibakin	4/30/12
Roman Chebykin ADDRESS 13150 47th Ave. N P	ymputh MN 55442	CITIZENSHIP U.S
2. FULL NAME OF SECOND ASSIGNOR	ASSIGNOR'S SIGNATURE	DATE
Andrew A. Knitt		
ADDRESS 111 N. Jackson Street, Deer Creek, IL 61733		CITIZENSHIP U.S.A.
L .		
1. WITNESS NAME	WITNESS SIGNATURE	DATE
ADDRESS		CITIZENSHIP
2. WITNESS NAME	WITNESS SIGNATURE	DATE
ADDRESS		CITIZENSHIP
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3. FULL NAME OF THIRD ASSIGNOR	ASSIGNOR'S SIGNATURE	DATE
Wellington Ying-Wei Kwok		
		CITIZENSHIP U.S.A.
1. WITNESS NAME	WITNESS SIGNATURE	DATE
ADDRESS		CITIZENSHIP
2. WITNESS NAME	WITNESS SIGNATURE	DATE
ADDRESS		CITIZENSHIP
3. FULL NAME OF FOURTH ASSIGNOR	ASSIGNOR'S SIGNATURE	DATE
Kaiyu Wang		
ADDRESS 125 South Street, Apt. 275, Vernon, CT 06066		CITIZENSHIP P.R. China
1. WITNESS NAME	WITNESS SIGNATURE	DATE
ADDRESS		CITIZENSHIP

2. WITNESS NAME	WITNESS SIGNATURE	DATE
ADDRESS		CITIZENSHIP

ASSIGNMENT

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

SYSTEMS AND METHODS FOR DETECTING ULTRA CAPACITOR CELL SHORT CIRCUITS

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

WHEREAS, Caterpillar Inc., a corporation of Delaware whose post office address is Intellectual Property Department, 100 N.E. Adams Street, Peoria, Illinois 61629-9510 (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;

and any and an parente to we recover aper and ap	- n- a n-		
NOW THEREFORE, be it known that for good and valuable consideration the receipt of which from Assignee is nereby 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, 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 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 patents which may be granted on this invention in 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 ha We have not executed and will not execute any a	AND, WE HEREBY covenant that We have the full right to convey the interest assigned by this Assignment, and Ve 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;			
AND, WE HEREBY authorize the attorne application to insert here in parentheses the coun Application No, filed).	to prosecute this	
FULL NAME OF SOLE OR FIRST ASSIGNOR ASSIGNOR'S SIGNATURE DATE			
Igor Dos Santos Ramos			
ADDRESS 12400 Marion Lane W, Apt. 3315, Minnet	onka, MN 55305	CITIZENSHIP U.S.A.	

Page 1 of 4

1. WITNESS NAME	WITNESS SIGNATURE	DATE
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2. WITNESS NAME	WITNESS SIGNATURE	DATE
ADDRESS		CITIZENSHIP
2. FULL NAME OF SECOND ASSIGNOR	ASSIGNOR'S SIGNATURE	DATE
Andrew A. Knitt	And Sho	4-30-12
ADDRESS 111 N. Jackson Street, Deer Creek, IL 61733		CITIZENSHIP U.S.A.
1. WITNESS NAME	WITNESS SIGNATURE	DATE
Nick Halali	Walaki	4-30-12
Nick Holale ADDRESS 1300 W. MARIGOLD Dr.	APT 5207	CITIZENSHIP () S.H
PFORIA, IL 61615		
	Δ	T
2. WITNESS NAME	WITNESS SIGNATURE	DATE 1/3:/17
ADDRESS ZO Hanne De	<u></u>	CITIZENSHIP
Generator Hills, IL GISY	8	

3. FULL NAME OF THIRD ASSIGNOR	ASSIGNOR'S SIGNATURE	DATE
Wellington Ying-Wei Kwok	Ndhy K.	4/30/2012
ADDRESS 11003 N. Moonstone Court, Dunlap, IL 61525		CITIZENSHIP U.S.A.
1. WITNESS NAME	WITNESS SIGNATURE	DATE
NICK HALABI	Holaly	4-30-12 CITIZENSHIP
NICK HALABI ADDRESS 1700 W MAREGOLD D	n APT 5207	CITIZENSHIP USA
PEORIA I 1 6/6/5		
	T	
2. WITNESS NAME	WITNESS SIGNATURE	9/20/2412
Scott Kokoska ADDRESS		CITIZENSHIP
710 Hannah Dr		USA
Generation Hills, IL 6154	8	
3. FULL NAME OF FOURTH ASSIGNOR	ASSIGNOR'S SIGNATURE	DATE
Kaiyu Wang		
ADDRESS 125 South Street, Apt. 275, Vernon, CT	06066	CITIZENSHIP P.R. China
1. WITNESS NAME	WITNESS SIGNATURE	DATE
ADDRESS		CITIZENSHIP
1,000,00		

2. WITNESS NAME	WITNESS SIGNATURE	DATE
	,	
ADDRESS		CITIZENSHIP

ASSIGNMENT

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

SYSTEMS AND METHODS FOR DETECTING ULTRA CAPACITOR CELL SHORT CIRCUITS

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

WHEREAS, Caterpillar Inc., a corporation of Delaware whose post office address is Intellectual Property Department, 100 N.E. Adams Street, Peoria, Illinois 61629-9510 (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, provisional application Serial No, filed, 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;				
AND, WE HEREBY authorize the attorneys/representatives that WE have empowered to prosecute this application to insert here in parentheses the country, application number, and official filing date (
IN TESTIMONY WHEREOF, We have hereunto set our hands.				
1. FULL NAME OF SOLE OR FIRST ASSIGNOR	ASSIGNOR'S SIGNATURE	DATE		
Igor Dos Santos Ramos				
ADDRESS 12400 Marion Lane W, Apt. 3315, Minnetonka, MN 55305		CITIZENSHIP U.S.A.		

Page 1 of 4

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ADDRESS 111 N. Jackson Street, Deer Creek, IL 61733		CITIZENSHIP U.S.A.
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Wellington Ying-Wei Kwok		
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ADDRESS		CITIZENSHIP
3. FULL NAME OF FOURTH ASSIGNOR	ASSIGNOR'S SIGNATURE	DATE
Kaiyu Wang	Jan Wang	05/01/2012
ADDRESS 125 South Street, Apt. 275, Vernon, CT 06066		CITIZENSHIP P.R. China
1. WITNESS NAME	WITNESS SIGNATURE	DATE
Lei Xing	King Lei	05/01/2012
ADDRESS 115 Nature (n. Apt 20	28 , Fact Hart ford, CT, Obig	P.R. Chia
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2. WITNESS NAME Mina/!	WITNESS SIGNATURE	DATE 87 /01/2012
ADDRESS Ginhamon Circle,	West Hanford, CT, 06110	CITIZENSHIP P. R. China

Page 4 of 4

PATENT REEL: 028136 FRAME: 0536