PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT5407216

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
JOHN FERRAZ JR.	03/04/2019
MICHAEL THOMAS JACKSON	03/04/2019
KENNETH ALAN DUST	03/05/2019

RECEIVING PARTY DATA

Name:	CATERPILLAR INC.
Street Address:	510 LAKE COOK ROAD
Internal Address:	SUITE 100
City:	DEERFIELD
State/Country:	ILLINOIS
Postal Code:	60015

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16294049

CORRESPONDENCE DATA

Fax Number: (309)675-1236

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

Phone: 309-675-5140

Email: US_Docket_Clerk@cat.com

CATERPILLAR INC. INTELLECTUAL PROPERTY DEPARTMENT **Correspondent Name:**

Address Line 1: 100 N.E. ADAMS STREET

Address Line 2: AH 9510

Address Line 4: PEORIA, ILLINOIS 61629-9510

ATTORNEY DOCKET NUMBER:	18-1332
NAME OF SUBMITTER:	HEATHER D. CLARK
SIGNATURE:	/Heather D. Clark/
DATE SIGNED:	03/06/2019

Total Attachments: 6

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> **PATENT REEL: 048517 FRAME: 0030** 505360428

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PATENT REEL: 048517 FRAME: 0031

ASSIGNMENT

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

ELECTRO-HYDRAULIC ARRANGEMENT FOR AN EARTHMOVING MACHINE

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

WHEREAS, Caterpillar Inc., a corporation of Delaware, whose post office address is 510 Lake Cook Road Suite 100 Deerfield, IL 60015, USA (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, I/We, as Assignor(s), 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/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 extensions, renewals, and reissues thereof, and I/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, I/WE HEREBY covenant that I/We 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/WE HEREBY further covenant and agree that I/We will, without further consideration, communicate with Assignee, its successors and assigns, any facts known to me/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 IAME HEREBY authorize the attorneys/representatives that IAME have empowered to prosecute this

application to insert here in parentheses the country, application number, and official filing Application No, filed).	
IN TESTIMONY WHEREOF, I/We have hereunto set our hands.	
1. FULL NAME OF FIRST ASSIGNOR ASSIGNOR'S SIGNATURE	DATE
John Ferraz, Jr. JOHN POUZEES JZ	3/4/2019
ADDRESS:	CITIZENSHIP
1778 Fieldstone Ct Romeoville, IL 60446	US

Page 1 of 2

1. WITNESS NAME KEV, J. KARKKA, NEW	WITNESS SIGNATURE	date 3/4/2	017
ADDRESS LOTO COLUNGIADOD DE.		CITIZENSHIP	USA
WARERVILLE, IL 66540			

2. WITNESS NAME Scott Vollmer	WITNESS SIGNATURE FULLY. U	DATE 3/4/2019
ADDRESS		CITIZENSHIP
	laperaille, IL WOSHO	USA

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NOW THEREFORE, be it known that for good and valuable consideration the receipt of which from Assignee is hereby acknowledged, I/We, as Assignor(s), 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/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 I/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, I/WE HEREBY covenant that I/We 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/WE HEREBY further covenant and agree that I/We will, without further consideration, communicate with Assignee, its successors and assigns, any facts known to me/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, I/WE HEREBY authorize the attorneys/representatives that I/WE have empowered to prosecute this

Application No, filed).	
IN TESTIMONY WHEREOF, I/We h	ave hereunto set our hands.	
2. FULL NAME OF SECOND ASSIGNOR	ASSIGNOR'S SIGNATURE	DATE
Michael Thomas Jackson	A STATE OF THE STA	3-4-2018
ADDRESS:		CITIZENSHIP
9901 Doubet, Hanna City, IL 61536		US

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

Page 1 of 2

PATENT REEL: 048517 FRAME: 0034

1. WITNESS NAME Subtin Krager	WITNESS SIGNATURE	DATE 3/4/19
ADDRESS 711 DOUGH Dr		CITIZENSHIP 45A
Inermantown Hills	IL 61548	
2. WITNESS NAME W://cam N-O/Veil/	WITNESS SIGNATURE	DATE 3/4//9
ADDRESS 619 County Rd 1600 E		CITIZENSHIP
Eureka /L 615	3 <i>0</i>	USA

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

ELECTRO-HYDRAULIC ARRANGEMENT FOR AN EARTHMOVING MACHINE

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NOW THEREFORE, be it known that for good and valuable consideration the receipt of which from Assignee is hereby acknowledged, I/We, as Assignor(s), 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/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 I/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, I/WE HEREBY covenant that I/We 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/WE HEREBY further covenant and agree that I/We will, without further consideration, communicate with Assignee, its successors and assigns, any facts known to me/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;

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

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

Application No, filed		
IN TESTIMONY WHEREOF, IWe ha	ave hereunto set our hands.	
3. FULL NAME OF THIRD ASSIGNOR	ASSIGNOR'S SIGNATURE	DATE
Kenneth Alan Dust	Kundale Dix	3/5/19
ADDRESS:		CITIZENSHIP
1533 Maple Av. Downers Grove, IL 60515		บร

Page 1 of 2

1. WITNESS NAME DARSMAN PATCL	WITNESS SIGNATURE	DATE 03/05/20 ^ド (
ADDRESS		CITIZENSHIP
9342 HAMLIN AVE , DO	3 12 257V63 , IZ-600K	USA

2 WITNESS NAME THOMAS D. MORRIS	WITNESS SIGNATURE THOMES & MENN	0ATE 3-05-2019
ADDRESS		CITIZENSHIP
25643 CHIPWOOD DA	2, Minoay 14 60447	US A

PATENT REEL: 048517 FRAME: 0037

RECORDED: 03/06/2019