PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

EPAS ID: PAT3990050

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
AUSTIN P. ROE	08/01/2016
SCOTT A. THOMPSON	07/27/2016
ANTHONY T. PETROU	07/28/2016
MICHAEL J CAMPAGNA	07/27/2016

RECEIVING PARTY DATA

Name:	CATERPILLAR INC.
Street Address:	100 NE ADAMS ST.
Internal Address:	AH 9510
City:	PEORIA
State/Country:	ILLINOIS
Postal Code:	61629

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	15223869

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: 3096362223

Email: US_Docket_Clerk@cat.com

CATERPILLAR INC. INTELLECTUAL PROPERTY D **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:	16-0699
NAME OF SUBMITTER:	KELLY A UMHOLTZ
SIGNATURE:	/kelly a umholtz/
DATE SIGNED:	08/03/2016

Total Attachments: 5

PATENT REEL: 039321 FRAME: 0844

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SOLE/JOINT INVENTION (Worldwide Rights) Client Ref. No. 16-0699

ASSIGNMENT

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

SYSTEM FOR DETERMINING PISTON DAMAGE BASED ON CARBON DEPOSIT GROWTH

for which WE will file a patent application; and

WHEREAS, Caterpillar Inc., a corporation of Delaware, whose post office address is 100 NE Adams Street, Peoria, State of Illinois 61629 (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 sald 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 Assignee or the attorneys/representative	s of Assignee to insert here in
parentheses the country, application number, and official filing date (Application No.
IN TESTIMONY WHEREOF I have hereunto set my hand.	

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SOLE/JOINT INVENTION (Worldwide Rights) Client Ref. No. 16-0699

1. FULL NAME OF FIRST ASSIGNOR AUSTIN P. ROE	ASSIGNOR'S SIGNATURE	DATE 8/1/16
ADDRESS	•	CITIZENSHIP
137 North Ohio Ave Morton, IL 61550		us
1. WITNESS NAME	WITNESS SIGNATURE	DATE
LIKE MOEHZING	18	8/1/16
ADDRESS 393 FILDRIDGERD METAMORA, IL C1548		USA
	LUTY SOO OLONATUOS	
Doy Wilson	WITNESS SIGNATURE Dougles E. Way	8-1-16
ADDRESS 9 Pythand HONRY TUMO	St N 61537	U, S

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SOLE/JOINT INVENTION (Worldwide Rights) Client Ref. No. 16-0699

1. FULL NAME OF SECOND ASSIGNOR SCOTT A. THOMPSON	ASSIGNOR'S SIGNATURE	DATE 7/27/16
ADDRESS		CITIZENSHIP
1605 Oak Ridge Washington, Illinois 61571		us
	1 /	
1. WITNESS NAME	WITNESS SIGNATURE	July 27, 2016
Michael J. Campagna	1 7/1	00.7 - 7
ADDRESS 4308 E Deer hart Dr.	Chillicothe, IL 61523	
2. WITNESS NAME	WITNESS SIGNATURE	DATE
Daviel I Lans	Sol las	20/27 2016
ADDRESS		
68 Drake Love Washin	Jn 16571	

1. FULL NAME OF THIRD ASSIGNOR ANTHONY T. PETROU	ASSIGNOR'S SIGNATURE	DATE 07/28/2016
ADDRESS		CITIZENSHIP
1911 W. Geneva Rd Peoria, Illinois 61615		us
1. WITNESS NAME Keith N. E. Troisi	WITNESS SIGNATURE HALL Sin	DATE 07/28/206

2. WITNESS NAME Andrew J Peptinski	and Pephish	7-28-16
ADDRESS 1907 W Dayto Peoria, IL	na Dr 61614	US

1. FULL NAME OF FOURTH ASSIGNOR MICHAEL J. CAMPAGNA	ASSIGNOPIS/BIGNATURE	DATE July 27, 20/6
ADDRESS 4308 E. Deer Hart Dr. Chillicothe, Illinois 61523		CITIZENSHIP
1. WITNESS NAME	WITNESS SIGNATURE	DATE
Austin Kaul	a dust a c	July 27,2016
ADDRESS 4)653 310th St		
Springfield, SD	57062	
2. WITNESS NAME	WITNESS SIGNATURE	DATE
Scott Thompson	ht	July 27, 2016
ADDRESS	1	
1605 10 Oak Ridg	ž	
Washington, JL	\$1571	