PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT5751109

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
LANCE COWPER	08/28/2019
RONALD PAUL DETTMAN	07/23/2019
CODY JOSHUA RYERSON	07/30/2019

RECEIVING PARTY DATA

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

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16562079

CORRESPONDENCE DATA

Fax Number:

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.

5714320800 Phone:

kpaige@harrityllp.com Email: HARRITY & HARRITY, LLP **Correspondent Name:** Address Line 1: 11350 RANDOM HILLS ROAD

Address Line 2: SUITE 600

Address Line 4: FAIRFAX, VIRGINIA 22030

ATTORNEY DOCKET NUMBER: 19-0463-72451 NAME OF SUBMITTER: NATALIE PARCELL SIGNATURE: /Natalie Parcell/ **DATE SIGNED:** 10/02/2019

Total Attachments: 4

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PATENT REEL: 050606 FRAME: 0964 505704299

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PATENT REEL: 050606 FRAME: 0965

ASSIGNMENT

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

IMPLEMENT STALL DETECTION SYSTEM

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 (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, 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 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/V	VE HEREBY	authorize	the attorneys/repr	esentatives tha	t I/WE have	empowered	to prosecute this
			s the country, appl				
Application No.			September 5, 2019				

IN TESTIMONY WHEREOF, I/We have hereunto set our hands.

FULL NAME OF ASSIGNOR Lance COWPER	ASSIGNOR'S SIGNATURE	DATE \$/28/19
ADDRESS 1495 County Rd. 1050 East, Metamora, IL 615	CITIZENSHIP	
1. WITNESS NAME BRENT J. Dyme	WITNESS SIGNATURE	DATE 8-28-19
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2414 W. Mark's PL		CITIZENSHIP
Dunlap 12 61525		

IN TESTIMONY WHEREOF, I/We have hereunto set our hands.

Merrill, Mi. 48637

FULL NAME OF ASSIGNOR	ASSIGNOR'S SIGNATURE	DATE
Ronald Paul DETTMAN	The state of the s	7-23-19
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		7
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2. WITNESS NAME	WITNESS SIGNATURE	DATE
Ray R. Welke	Xan K. Welke	7/23/19
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IN TESTIMONY WHEREOF, I/We have hereunto set our hands.

FULL NAME OF ASSIGNOR	ASSIGNOR'S SIGNATURE	DATE
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Page 4 of 4

PATENT REEL: 050606 FRAME: 0969