# 505457955 05/02/2019

## PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:			NEW ASSIGNMENT			
NATURE OF CONVEYANCE:		ASSIGNMENT				
CONVEYING PARTY	DATA					
			Name		Execution Date	
JEFFRY N. SUNDER	MEYER			(	)5/02/2019	
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PROPERTY NUMBE	RS Total: <sup>-</sup>	1				
Property Typ	be		Number			
<b>Application Number</b>	:	1640	1766			
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ATTORNEY DOCKET NUMBER:		!	C190-0054US			
NAME OF SUBMITTER:		GWENDOLYN C. RAMSEY				
AME OF SUDMITTE	SIGNATURE:		/Gwendolyn C. Ramsey/			
			05/02/2019			
SIGNATURE: DATE SIGNED:			05/02/2019			
SIGNATURE:			05/02/2019			
SIGNATURE: DATE SIGNED:	e1.tif		05/02/2019			

SOLE/JOINT INVENTION (Worldwide Rights) Attorney Docket No. C190-0054US Client Ref. No. 19-0106-71451

### ASSIGNMENT

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

### MODAL ANALYSIS FOR DAMAGE RATE MEASUREMENT AND PREDICTION

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

WHEREAS, Caterpillar Inc., a corporation of Delaware, having a place of business at 510 Lake Cook Road, Suite 100, Deerfield, Illinois, 60015, 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, 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 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, 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, IWE 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 relissue 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 to insert here in parentheses the country, application number, and official filing date ( \_\_\_\_\_\_\_ Application No. \_\_\_\_\_\_\_, filed \_\_\_\_\_\_).

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

1. FULL NAME OF SOLE ASSIGNOR	ASSIGNOR'S SIGNATURS	DATE
Jeffry N. Sundermeyer	Laffry N. Sundermeyer	5/02/2019
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#### SOLE/JOINT INVENTION (Worldwide Rights) Attorney Docket No. C190-0054US Client Ref. No. 19-0106-71451

T. WITNESS NAME	WITNESS SIGNATURE	DATE
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