505408154 04/03/2019

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
BARRY MEI	04/02/2019

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:	16373734

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: 3096755140

Email: US_docket_clerk@cat.com

Correspondent Name: CATERPILLAR INC. JOINT OC

Address Line 1: 100 NE ADAMS

Address Line 4: PEORIA, ILLINOIS 61629-9510

ATTORNEY DOCKET NUMBER:	C190-0044US
NAME OF SUBMITTER:	CYNTHIA M. CONWAY
SIGNATURE:	/Cynthia M. Conway/
DATE SIGNED:	04/03/2019

Total Attachments: 2 source=22V0733#page1.tif source=22V0733#page2.tif

PATENT 505408154 REEL: 048777 FRAME: 0712

JOINT INVENTION (Worldwide Rights) Attorney Docket No. C190-0044US Client Ref. No. 18-1409-70840

ASSIGNMENT

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

AVOIDANCE MODIFIER SYSTEM FOR COLLISION AVOIDANCE SYSTEM

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 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 to insert here in parentheses the cou Application No. 16/373,734 , filed, filed,	intry, application number, and official filing dat <u>April 3, 2019</u>).	te (
 IN TESTIMONY WHEREOF, I/We have	hereunto set our hands.	
1. FULL NAME OF FIRST ASSIGNOR	ASSIGNOR'S SIGNATURE	DATE
Barry Mei	Proper	4/2/2019
ADDRESS 402 Hutchison St., Oswego, IL 60543		CITIZENSHIP US

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1. WITNESS NAME Ati Rosa	WITNESS SIGNATURE	DATE 04/02/19
ADDRESS 5N373 Glenoak	st. Chales 1L	CITIZENSHIP
2. WITNESS NAME	WITNESS SIGNATURE	DATE
	WITNESS SIGNATURE	DATE 04/02/2019
2. WITNESS NAME AUSTIN SCOTT ADDRESS		

PATENT REEL: 048777 FRAME: 0714