

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT4471102

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
MATTHEW JAMES BESCHORNER	06/12/2017
JUSTIN SPEICHINGER	06/13/2017
SHOGO TADA	06/13/2017
RUSTIN GLENN METZGER	06/12/2017
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	CATERPILLAR INC.
<b>Street Address:</b>	100 N.E. ADAMS STREET
<b>City:</b>	PEORIA
<b>State/Country:</b>	ILLINOIS
<b>Postal Code:</b>	61629-9510
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	15629172
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(202)408-4400
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<b>Email:</b>	faxserve@finnegan.com
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<b>ATTORNEY DOCKET NUMBER:</b>	08350.2498
<b>NAME OF SUBMITTER:</b>	WILLIAM O TROUSDELL
<b>SIGNATURE:</b>	/William O. Trousdel/
<b>DATE SIGNED:</b>	06/21/2017
<b>Total Attachments: 5</b>	
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## ASSIGNMENT

WHEREAS I, the below named inventor, hereinafter referred to as Assignor, have made an invention entitled:

### SENSOR FUSION FEEDBACK FOR CONTROLLING FLUID PRESSURES IN A MACHINE

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

WHEREAS, **Caterpillar Inc.**, a corporation of Delaware whose post office address is 100 N.E. Adams Street, Peoria, Illinois 61629-9510 (hereinafter referred to as Assignee), is desirous of securing the entire right, title, and interest in and to this invention in all countries throughout the world, and in and to the application for United States Letters Patent on this invention and the Letters Patent to be issued upon this application;


NOW THEREFORE, be it known that for and in consideration of the sum of One Dollar (\$1.00) in hand paid and other 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 Letters Patent of the United States which may be granted thereon, and all reissues thereof, and all rights to claim priority on the basis of the above provisional application (if any), as well as all rights to claim priority on the basis of this application, and all applications for Letters Patent which may hereafter be filed for this invention in any foreign country and all Letters Patent which may be granted on this invention in any foreign country, and all extensions, renewals, and reissues thereof; and WE hereby authorize and request the Commissioner of Patents and Trademarks of the United States and any official of any foreign country whose duty it is to issue patents on applications as described above, to issue all Letters Patent 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;

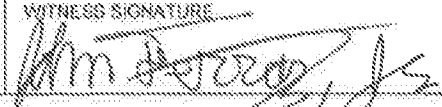
AND, WE HEREBY further covenant and agree that WE will, without further consideration, communicate with Assignee, its successors and assigns, any facts known to me respecting this invention, and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver any 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, WE HEREBY authorize the attorneys/representatives that WE have empowered to prosecute this application to insert here in parentheses the country, application number, and official filing date (Application No. 15/629,172 filed June 21, 2017 ).

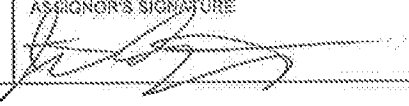
IN TESTIMONY WHEREOF, I have hereunto set my hand.

1. FULL NAME OF SOLE OR FIRST ASSIGNOR Matthew James BESCHORNER	ASSIGNOR'S SIGNATURE 	DATE 6/12/17
ADDRESS 5751 Lake Pointe Dr., Plainfield, IL 60586		CITIZENSHIP USA

1. WITNESS NAME Kevin J. KARKKAINEN	WITNESS SIGNATURE 	DATE 6/12/2017
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2. WITNESS NAME John Ferraz, Jr	WITNESS SIGNATURE 	DATE 6/12/2017
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IN TESTIMONY WHEREOF, I have hereunto set my hand.

2. FULL NAME OF SOLE OR FIRST ASSIGNOR Justin SPEICHINGER	ASSIGNOR'S SIGNATURE 	DATE 06/13/2017
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1. WITNESS NAME Hiroaki Sakamoto	WITNESS SIGNATURE Hiroaki Sakamoto	DATE 06/13/2017
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2. WITNESS NAME Shogo Tada	WITNESS SIGNATURE Shogo Tada	DATE 06/13/2017
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IN TESTIMONY WHEREOF, I have hereunto set my hand.


3. FULL NAME OF SOLE OR FIRST ASSIGNOR	ASSIGNOR'S SIGNATURE	DATE
Shogo TADA	<i>Shogo Tada</i>	06/13/2017
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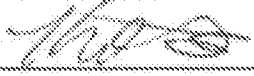
1. WITNESS NAME	WITNESS SIGNATURE	DATE
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2. WITNESS NAME	WITNESS SIGNATURE	DATE
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674-8686, Japan		

IN TESTIMONY WHEREOF, I have hereunto set my hand.

4. FULL NAME OF SOLE OR FIRST ASSIGNOR Rustin Glenn METZGER	ASSIGNOR'S SIGNATURE 	DATE 6/12/17
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1. WITNESS NAME Anthony McNEALY	WITNESS SIGNATURE 	DATE 6/12/17
ADDRESS 11306 N. Stone Creek Dr		CITIZENSHIP USA

2. WITNESS NAME King Stratton	WITNESS SIGNATURE 	DATE 12 June 2017
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