

PATENT ASSIGNMENT COVER SHEET

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 Stylesheet Version v1.2

EPAS ID: PAT5652466

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
RONALD SILVER	08/05/2019
JASWINDER SINGH	08/02/2019
DAVID M. GINTER	08/05/2019
PAUL WANG	07/31/2019
MICHAEL BARDELL	07/31/2019
RECEIVING PARTY DATA	
Name:	CATERPILLAR INC.
Street Address:	510 LAKE COOK ROAD
City:	DEERFIELD
State/Country:	ILLINOIS
Postal Code:	60015
PROPERTY NUMBERS Total: 1	
Property Type	Number
Application Number:	16531463
CORRESPONDENCE DATA	
Fax Number:	(309)675-1236
<i>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.</i>	
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Correspondent Name:	CATERPILLAR INC. JOINT OC
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Address Line 4:	PEORIA, ILLINOIS 61629-9510
ATTORNEY DOCKET NUMBER:	120451-047UT1
NAME OF SUBMITTER:	PAMELA SKELTON
SIGNATURE:	/Pamela Skelton/
DATE SIGNED:	08/05/2019
Total Attachments: 6	
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ASSIGNMENT

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

STOICHIOMETRIC ENGINE SYSTEM UTILIZING THREE-WAY CATALYST UPSTREAM OF TURBINE

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, 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;

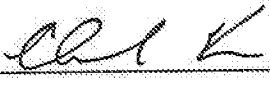
AND, I/WE HEREBY covenant that I/We have the full right to convey the interest assigned by this Assignment, and I/We have not executed and will not execute any agreement in conflict with this Assignment;


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;

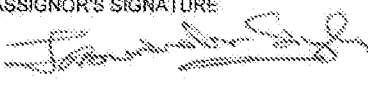
AND, I/WE HEREBY authorize Assignee or the attorneys/representatives of Assignee to insert here in parentheses the country, application number, and official filing date (United States Application No. 16/531,463, filed August 5, 2019).


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


1. FULL NAME OF SOLE OR FIRST ASSIGNOR Ronald Silver	ASSIGNOR'S SIGNATURE 	DATE August 5, 2019
ADDRESS 5631 N. Prospect Road, Peoria, IL 61614		CITIZENSHIP US

1. WITNESS NAME CHARLIE KIM	WITNESS SIGNATURE 	DATE August 5, 2019
ADDRESS 11115 N HAZEL WAY DUNLAP, IL 61525		CITIZENSHIP USA

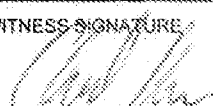
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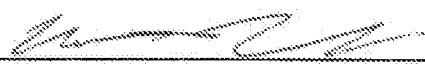
2. FULL NAME OF SECOND ASSIGNOR, IF ANY Jaswinder Singh	ASSIGNOR'S SIGNATURE 	DATE 8/2/19
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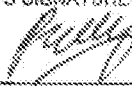
1. WITNESS NAME KEITH STENSSON	WITNESS SIGNATURE 	DATE 8/2/19
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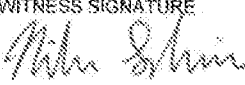
2. WITNESS NAME Roger L. Oliver Jr.	WITNESS SIGNATURE 	DATE 8/2/19
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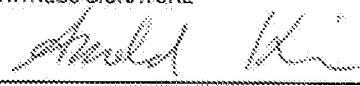
3. FULL NAME OF THIRD ASSIGNOR, IF ANY David M. Ginter	ASSIGNOR'S SIGNATURE 	DATE 5/10/2019
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2. WITNESS NAME Christopher Liscardi	WITNESS SIGNATURE 	DATE 8/5/2019
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4. FULL NAME OF THIRD ASSIGNOR, IF ANY Paul Wang	ASSIGNOR'S SIGNATURE 	DATE 7/31/19
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1. WITNESS NAME Niko Landin	WITNESS SIGNATURE 	DATE 7/31/19
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2. WITNESS NAME Arnold Kim	WITNESS SIGNATURE 	DATE 7/31/2019
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5. FULL NAME OF THIRD ASSIGNOR, IF ANY Michael Bardell	ASSIGNOR'S SIGNATURE 	DATE 7/31/19
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1. WITNESS NAME CHARLIE KIM	WITNESS SIGNATURE 	DATE 7/31/19
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2. WITNESS NAME Arnold Kim	WITNESS SIGNATURE 	DATE 7/31/2019
ADDRESS 2306 W. Paddington Ct. Peoria, IL 61615		CITIZENSHIP US