PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
JEREMY BYRD	12/04/2019
ERIC LEE SCHROEDER	12/03/2019
DAVID ANDREW PIERPONT	12/02/2019
BRIAN R. BELL	12/04/2019
DEBORAH LEE RIBORDY	12/04/2019
JARED P. TOLAN	12/03/2019
CRAIG P. HITTLE	12/03/2019

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:	16732783	

CORRESPONDENCE DATA

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ATTORNEY DOCKET NUMBER:	19-1149US01
NAME OF SUBMITTER:	KYLIE PAIGE
SIGNATURE:	/KYLIE PAIGE/
DATE SIGNED:	04/16/2020

506018509 PATENT REEL: 052420 FRAME: 0157

Total Attachments: 8 source=19-1149US01_Assignment#page1.tif source=19-1149US01_Assignment#page2.tif source=19-1149US01_Assignment#page3.tif source=19-1149US01_Assignment#page4.tif source=19-1149US01_Assignment#page5.tif source=19-1149US01_Assignment#page6.tif source=19-1149US01_Assignment#page7.tif source=19-1149US01_Assignment#page8.tif

PATENT REEL: 052420 FRAME: 0158

ASSIGNMENT

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

RECIRCULATION SYSTEM FOR A POWER SYSTEM THAT INCLUDES A PLURALITY OF TURBOCHARGERS

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

WHEREAS, Caterpillar Inc., a corporation of **Delaware**, whose post office address is **100** NE Adams Street, **Peoria**, IL **61629-9510** (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 country, application number, and official filing date (US Application No. 16/732,783 , filed January 2, 2020).

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

FULL NAME OF ASSIGNOR	ASSIGNOR'S SIGNATURE	DATE
Jeremy BYRD		12/04/19
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3317 Hamilton Street, West Lafayette,	IN 47906 US	US
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	,	
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PATENT REEL: 052420 FRAME: 0160

FULL NAME OF ASSIGNOR	ASSIGNOR'S SIGNATURE	DATE
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FULL NAME OF ASSIGNOR	ASSIGNORAS SIGNATURE	DATE
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Michael Brown	Makasan	12-2-19
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IN TESTIMONY WHEREOF, I/We have hereunto set our hands.

FULL NAME OF ASSIGNOR	ASSIGNOR'S SIGNATURE	DATE
Brian R. BELL	Mr Bell	Dec 4, 2019
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1. WITNESS NAME	WITNESS SIGNATURE	DATE
JACK MERCHANT	Who	12/4/2019
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2. WITNESS NAME	WITNESS SIGNATURE:	DATE

2. WITNESS NAME WITNESS SIGNATURE	DATE
JENEMY BYRD	12/04/19
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PATENT REEL: 052420 FRAME: 0163

FULL NAME OF ASSIGNOR	ASSIGNOR'S SIGNATURE	DATE
Deborah Lee RIBORDY	Day On	12-4-19
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FULL NAME OF ASSIGNOR Jared P. TOLAN	ASSIGNOR'S SIGNATURE	DATE 12-3-19
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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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RECORDED: 04/16/2020