505594786 07/29/2019

# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT5641587

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

## **CONVEYING PARTY DATA**

Name	Execution Date
CURTIS J GRAHAM	09/22/2016
DANIEL CAVANAUGH	09/22/2016
KEVIN P. REARDON	09/22/2016

# **RECEIVING PARTY DATA**

Name:	CATERPILLAR INC.
Street Address:	510 LAKE COOK ROAD, SUITE 100
City:	DEERFIELD
State/Country:	ILLINOIS
Postal Code:	60015

# **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	16525151

# 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: 3096362223

Email: jyates@bscattorneys.com

CATERPILLAR INC./BRANNON SOWERS & CRACRA **Correspondent Name:** 

Address Line 1: 100 N.E. ADAMS STREET

Address Line 2: AH 9510

Address Line 4: PEORIA, ILLINOIS 61629-9510

ATTORNEY DOCKET NUMBER:	16-1502-73361.01
NAME OF SUBMITTER:	JONATHAN F. YATES
SIGNATURE:	/Jonathan F. Yates/
DATE SIGNED:	07/29/2019

### **Total Attachments: 6**

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> **PATENT REEL: 049891 FRAME: 0738** 505594786

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> PATENT REEL: 049891 FRAME: 0739

#### **ASSIGNMENT**

WHEREAS we, the below named inventors, (hereinafter referred to as Assignors), have made an invention entitled:

#### PRE-CHAMBER ASSEMBLY FOR FUEL INJECTOR

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

WHEREAS, Caterpillar Inc., a Delaware corporation having a place of business at Peoria, State of Illinois, 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, 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 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 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, 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 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, 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 ( <u>United States</u> Application No. 16/525,151 , filed <u>July 29, 2019</u> ).

IN TESTIMONY WHEREOF, we have hereunto set our hands.

FULL NAME OF FIRST ASSIGNOR     Curtis J. Graham	ASSIGNOR'S SIGNATURE Putty & Mahr	D9 /22 /2016
ADDRESS		CITIZENȘHIP
4813 N Fairview Place, Peoria, IL 61614, US		US

1. WITNESS NAME	WITNESS SIGNATURE	DATE
Ryan Cutrisht	Brus Estephot	9-22-16
ADDRESS 108 Tustice Dr		CITIZENSHIP US
East peoria IL	6/6//	
2. WITNESS NAME	WITNESS SIGNATURE	DATE
	WITNESS SIGNATURE  LUL Williams	DATE 7-22-16
2. WITNESS NAME  RECE Woldschmidt  ADDRESS  1402 F. Hendry La	WITNESS SIGNATURE  Led Williams	, .

### ASSIGNMENT

WHEREAS we, the below named inventors, (hereinafter referred to as Assignors), have made an invention entitled:

#### PRE-CHAMBER ASSEMBLY FOR FUEL INJECTOR

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

WHEREAS, Caterpillar Inc., a Delaware corporation having a place of business at Peoria, State of Illinois, 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, 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 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 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, WE HEREBY coveriant 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 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;

to insert here in parentheses the country, application number, and official filling date ( \_\_\_\_\_\_ Application No.

AND, WE HEREBY authorize the attorneys/representatives that we have empowered to prosecute this application

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IN TESTIMONY WHEREOF, w	e have hereunto set our hands.	
2. FULL NAME OF SECOND ASSIGNOR  Daniel Cavanaugh	ASSIGNOR'S SIGNATURE	DATE 9/22/2016
ADDRESS		CITIZENSHIP
15939 N Logan Ct., Chillicothe, IL 615	523, US	us

1. WITNESS NAME	WITNESS SIGNATURE	DATE
Ryan Cutrisht	I STATE OF THE STA	9-22-16
ADDRESS 108 Justice Dr		CITIZENSHIP U S
East Peoria	IL 6/6/1	
2. WITNESS NAME	WITNESS SIGNATURE	DATE
	WITNESS SIGNATURE  Luch Walleman	DATE 9-22-16
2. WITNESS NAME  Deck Walderbry: At  ADDRESS 1402 E Herdryx	1 %	·

# **ASSIGNMENT**

WHEREAS we, the below named inventors, (hereinafter referred to as Assignors), have made an invention entitled:

#### PRE-CHAMBER ASSEMBLY FOR FUEL INJECTOR

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NOW THEREFORE, be it known that for 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 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 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, 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 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, WE HEREBY authorize the attorneys/representatives that we have empowered to prosecute this application

to insert here in parentheses the countr , filed	y, application number, and official filing date ( ).	Application No.
IN TESTIMONY WHEREOF, w	e have hereunto set our hands.	
3. FULL NAME OF THIRD ASSIGNOR  Kevin P. Reardon	ASSIGNOR'S SIGNATURE	DATE 9/22/23/6
ADDRESS	,	CITIZENSHIP
6344 N Syler St., Peoria, IL 61615, US	6	US

1, WITNESS NAME	WITNESS SIGNATURE	OATE
Ryan Cutright	The tital	9-22-16
ADDRESS 108 Justice Dr	<i>y</i>	CITIZENSHIP UJ
East Peorla Il	6/6//	
<b>V</b>	T	
2: WITNESS NAME	WITNESS, SIGNATURE	DATE
Derde Waldschmidt	Ded Willed	9-22-16
ADDRESS 402 E. Headre La		CITIZENSHIP
Pears TI 6/6/5		_

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