### 503045610 11/03/2014

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT3092209

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

#### **CONVEYING PARTY DATA**

Name	Execution Date
RONALD SILVER	11/03/2014
BRANDON SHULL	11/03/2014

#### **RECEIVING PARTY DATA**

Name:	CATERPILLAR INC.	
Street Address:	100 NE ADAMS STREET	
City:	PEORIA	
State/Country:	ILLINOIS	
Postal Code:	61629	

### **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	14531404

#### **CORRESPONDENCE DATA**

**Fax Number:** (202)861-1783

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:** 202-861-1500

Email: PATENTS@BAKERLAW.COM
Correspondent Name: BAKER AND HOSTETLER LLP
Address Line 1: 1050 CONNECTICUT AVENUE

Address Line 2: SUITE 1100

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ATTORNEY DOCKET NUMBER:	86703.22830	
NAME OF SUBMITTER:	MICHAEL J. RIESEN	
SIGNATURE:	/MICHAEL J. RIESEN/	
DATE SIGNED:	11/03/2014	

#### **Total Attachments: 4**

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PATENT 503045610 REEL: 034092 FRAME: 0196

#### ASSIGNMENT

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

# COMPRESSION IGNITION ENGINE SYSTEM WITH IMPROVED REGENERATION VIA CONTROLLED ASH DEPOSITS

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 (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/or official filing date (U.S. Application No. 14/531,404 filed November 3, 2014 ).

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

PATENT REEL: 034092 FRAME: 0197

SOLE/JOINT INVENTION (Worldwide Rights) Attorney Docket No. 86703.22830 Client Ref. No. 14-1017

DATE

Ronald Silver	Ronald & Aller	11/3/14
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5631 North Prospect	KU	USA
	614	
1. WITNESS NAME	WITNESS SIGNATURE , , ,	DATE
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	1	T 5
2. WITNESS NAME	WITNESS SIGNATURE	DATE
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9701 N. Lantana Ln.		45 A

ASSIGNOR'S SIGNATURE /

1. FULL NAME OF FIRST (OR SOLE) ASSIGNOR

Peoria, IL 61615

#### **ASSIGNMENT**

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

# COMPRESSION IGNITION ENGINE SYSTEM WITH IMPROVED REGENERATION VIA CONTROLLED ASH DEPOSITS

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 (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/or official filing date (U.S. Application No. 14/531,404 filed November 3, 2014 ).

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

PATENT REEL: 034092 FRAME: 0199

SOLE/JOINT INVENTION (Worldwide Rights) Attorney Docket No. **86703.22830** Client Ref. No. **14-1017** 

2. FULL NAME OF SECOND ASSIGNOR	ASSIGNOR'S SIGNATURE	DATE
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	1	DATE
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