

PATENT ASSIGNMENT

Electronic Version v1.1
 Stylesheet Version v1.1

SUBMISSION TYPE:	NEW ASSIGNMENT										
NATURE OF CONVEYANCE:	ASSIGNMENT										
CONVEYING PARTY DATA											
<table border="1"> <thead> <tr> <th>Name</th> <th>Execution Date</th> </tr> </thead> <tbody> <tr> <td>Aaron Ness</td> <td>05/09/2013</td> </tr> <tr> <td>Scott Coulier</td> <td>05/08/2013</td> </tr> <tr> <td>Thomas Kammerdiener</td> <td>05/10/2013</td> </tr> <tr> <td>Jonathan Kilkenny</td> <td>05/09/2013</td> </tr> </tbody> </table>		Name	Execution Date	Aaron Ness	05/09/2013	Scott Coulier	05/08/2013	Thomas Kammerdiener	05/10/2013	Jonathan Kilkenny	05/09/2013
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Aaron Ness	05/09/2013										
Scott Coulier	05/08/2013										
Thomas Kammerdiener	05/10/2013										
Jonathan Kilkenny	05/09/2013										
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											
<table border="1"> <thead> <tr> <th>Property Type</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Application Number:</td> <td>13892396</td> </tr> </tbody> </table>		Property Type	Number	Application Number:	13892396						
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Application Number:	13892396										
CORRESPONDENCE DATA											
Fax Number:	8123333173										
<i>Correspondence will be sent via US Mail when the fax attempt is unsuccessful.</i>											
Phone:	812 333-5355										
Email:	mmcneil@liellmcneil.com										
Correspondent Name:	Caterpillar Inc. c/o LIELL & MCNEIL ATTO										
Address Line 1:	P.O. Box 2417										
Address Line 2:	511 South Madison Street										
Address Line 4:	Bloomington, INDIANA 47402-2417										
ATTORNEY DOCKET NUMBER:	13-0245										
NAME OF SUBMITTER:	Jonathan F. Yates										
Signature:	/Jonathan F. Yates/										

OP \$40.00 13892396

PATENT

Date:

05/13/2013

Total Attachments: 5

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ASSIGNMENT

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

PISTON HAVING COMBUSTION BOWL AND ENGINE USING SAME

for which We 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, 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 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, 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;

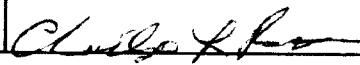
AND, WE HEREBY covenant that We have the full right to convey the interest assigned by this Assignment, and We have not executed and will not execute any agreement in conflict with this Assignment;

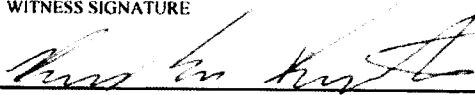
AND, WE HEREBY further covenant and agree that We will, without further consideration, communicate with Assignee, its successors and assigns, any facts known to us respecting this invention, and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver any 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.S. Application No. 13/892,396, filed May 13, 2013).

IN TESTIMONY WHEREOF, We have hereunto set our hands.

1. FULL NAME OF SOLE OR FIRST ASSIGNOR Aaron Ness	ASSIGNOR'S SIGNATURE 	DATE 5-9-2013
ADDRESS 212 Old Romney Dr. W, Lafayette, IN 47909		CITIZENSHIP US

1. WITNESS NAME CHRISTOPHER BATTIA	WITNESS SIGNATURE 	DATE 5-9-2013
ADDRESS 5065 SHODDINGSTAL LN WEST LAFAYETTE, IN 47906		CITIZENSHIP US

2. WITNESS NAME Brunden Bowditch	WITNESS SIGNATURE 	DATE 5-9-2013
ADDRESS 5424 Thornapple Lane, Lafayette, IN 47905		CITIZENSHIP US

2 FULL NAME OF SECOND ASSIGNOR, IF ANY Scott Coulier	ASSIGNOR'S SIGNATURE <i>Scott Coulier</i>	DATE 5-8-13
ADDRESS 2401 W. Alta Rd., Apt. 2504, Peoria, IL 61615		CITIZENSHIP US

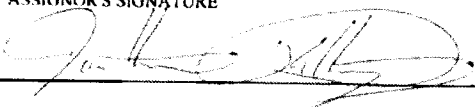
1. WITNESS NAME Andrew Priest	WITNESS SIGNATURE <i>Andrew Priest</i>	DATE 5/8/2013
ADDRESS 7725 N Orchard Rd, Peoria, IL 61615		CITIZENSHIP US


2. WITNESS NAME Brad Knier	WITNESS SIGNATURE <i>Brad Knier</i>	DATE 5/12/2013
ADDRESS 502 W. Lawndale Ave Peoria, IL 61604		CITIZENSHIP US

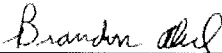
3. FULL NAME OF THIRD ASSIGNOR, IF ANY Thomas Kammerdiener	ASSIGNOR'S SIGNATURE <i>Thomas Kammerdiener</i>	DATE 10 th MAY, 2013
ADDRESS Gostingerstrasse 171, A-8051 Graz, Austria, Europe		CITIZENSHIP AT

1. WITNESS NAME BIANCA PLANETA	WITNESS SIGNATURE <i>Planeta Bianca</i>	DATE 10 th MAY 2013
ADDRESS HANDELSTRASSE 66, A-8052 GRAZ, EUROPE		CITIZENSHIP AT

2. WITNESS NAME HELGA PORON	WITNESS SIGNATURE <i>Helga Poron</i>	DATE 10 th MAY, 2013
ADDRESS GOSTINGERSTRASSE 171, A-8051 GRAZ, AUSTRIA, EUROPE		CITIZENSHIP AT

4. FULL NAME OF FOURTH ASSIGNOR, IF ANY Jonathan Kilkenny	ASSIGNOR'S SIGNATURE 	DATE 9 May 2013
ADDRESS 6623 N. Greenmont Rd., Peoria, IL 61614		CITIZENSHIP US

1. WITNESS NAME ADWITI JOSHI	WITNESS SIGNATURE 	DATE 9 May 2013
ADDRESS 11001 N. NORTHTRAIL DR, DUNLAP, IL 61525		CITIZENSHIP INDIA

2. WITNESS NAME BRANDON ABEL	WITNESS SIGNATURE 	DATE 9 May 2013
ADDRESS 2611 W NOTTINGHAM PL, PEORIA IL 61614		CITIZENSHIP US