

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
Stylesheet Version v1.2

EPAS ID: PAT4738864

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
AARON NESS	12/14/2017
JEFF HOWARD	12/14/2017
SRI HARSHA UDDANDA	12/14/2017
LUCAS ALLEN BURGER	12/15/2017
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	CATERPILLAR INC.
<b>Street Address:</b>	100 NE ADAMS STREET
<b>City:</b>	PEORIA
<b>State/Country:</b>	ILLINOIS
<b>Postal Code:</b>	61629
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	15844876
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(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>	
<b>Phone:</b>	3096362223
<b>Email:</b>	US_Docket_Clerk@cat.com
<b>Correspondent Name:</b>	CATERPILLAR INC./LAW OFFICE OF KURT J. F
<b>Address Line 1:</b>	100 N.E. ADAMS STREET
<b>Address Line 2:</b>	AH 9510
<b>Address Line 4:</b>	PEORIA, ILLINOIS 61629-9510
<b>ATTORNEY DOCKET NUMBER:</b>	17-0843
<b>NAME OF SUBMITTER:</b>	KURT J FUGMAN
<b>SIGNATURE:</b>	/Kurt J Fugman/
<b>DATE SIGNED:</b>	12/18/2017
<b>Total Attachments: 5</b>	
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source=17-0843\_filed\_assignment#page5.tif

**ASSIGNMENT**

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

**PISTON BOWL FOR IMPROVED COMBUSTION STABILITY**

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, State of Illinois 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;

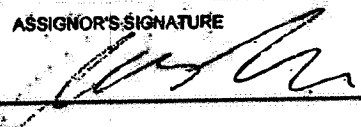
NOW THEREFORE, be it known that for good and valuable consideration the receipt of which from Assignee is hereby acknowledged, I/We, as Assignor(s), have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the Assignee, its lawful successors and assigns, 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;

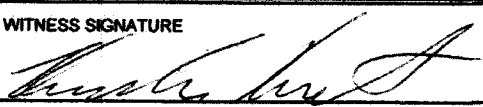
AND, I/WE HEREBY covenant that I/We have the full right to convey the interest assigned by this Assignment, and I/We have not executed and will not execute any agreement in conflict with this Assignment;

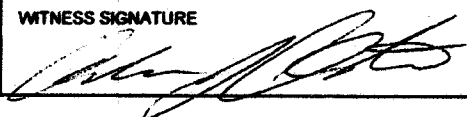
AND, I/WE HEREBY further covenant and agree that I/We will, without further consideration, communicate with Assignee, its successors and assigns, any facts known to me/us respecting this invention, and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver 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 official filing date ( US Application No. 15844876, filed December 18, 2017 ).

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

1. FULL NAME OF SOLE OR FIRST ASSIGNOR Aaron Ness	ASSIGNOR'S SIGNATURE 	DATE 12-14-2017
ADDRESS 6720 Indian Bluff Road, Battle Ground, IN 47920		CITIZENSHIP US

1. WITNESS NAME Brandon Bowerlitch	WITNESS SIGNATURE 	DATE 12/14/17
ADDRESS 2166 Funnyside Lane Lafayette, IN 47905		CITIZENSHIP USA

2. WITNESS NAME Adam Clute	WITNESS SIGNATURE 	DATE 12/14/17
ADDRESS 4683 Wharfside PKwy Lafayette IN, 47909		CITIZENSHIP USA

2. FULL NAME OF SOLE OR FIRST ASSIGNOR Jeff Howard	ASSIGNOR'S SIGNATURE	DATE
ADDRESS 610 Rose Street, West Lafayette, IN 47906		CITIZENSHIP US

1. WITNESS NAME	WITNESS SIGNATURE	DATE
ADDRESS		CITIZENSHIP

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2. FULL NAME OF SOLE OR FIRST ASSIGNOR	ASSIGNOR'S SIGNATURE	DATE
Jeff Howard	<i>Jeff Howard</i>	12/14/17
ADDRESS 610 Rose Street, West Lafayette, IN 47906		CITIZENSHIP US

1. WITNESS NAME	WITNESS SIGNATURE	DATE
Nicholas E. Wainzcott	<i>Nicholas E. Wainzcott</i>	12/14/17
ADDRESS 7501 N. County Rd 500 W Rossville, IN 46065		CITIZENSHIP US

2. WITNESS NAME	WITNESS SIGNATURE	DATE
James Cross	<i>James Cross</i>	12/14/2017
ADDRESS 786 N 400 W West Lafayette, IN 47906		CITIZENSHIP US

3. FULL NAME OF SOLE OR FIRST ASSIGNOR Sri Harsha Uddanda	ASSIGNOR'S SIGNATURE <i>U. Sri Harsha</i>	DATE 12/14/2017
ADDRESS 5350 Hawberry Lane, Apt 103, Lafayette, IN 47905		CITIZENSHIP India

1. WITNESS NAME BRIAN KENADJIAN	WITNESS SIGNATURE <i>Brian Kenadjian</i>	DATE 12/14/17
ADDRESS 232 S FURLONG DR, LAFAYETTE, IN 47905		CITIZENSHIP USA

2. WITNESS NAME Keith Ingveld	WITNESS SIGNATURE <i>Keith Ingveld</i>	DATE 12/14/17
ADDRESS 2275 Flowering Crab Dr E Lafayette IN 47905		CITIZENSHIP USA

4. FULL NAME OF SOLE OR FIRST ASSIGNOR Lucas Allen Burger	ASSIGNOR'S SIGNATURE	DATE
ADDRESS 1747 Hunters Glen Dr., Oshkosh, WI 54904		CITIZENSHIP US

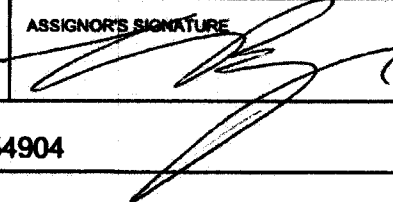
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ADDRESS		CITIZENSHIP


2. WITNESS NAME	WITNESS SIGNATURE	DATE
ADDRESS		CITIZENSHIP

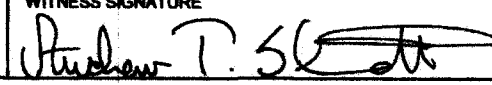
3. FULL NAME OF SOLE OR FIRST ASSIGNOR <b>Sri Harsha Uddanda</b>	ASSIGNOR'S SIGNATURE	DATE
ADDRESS <b>5350 Hawberry Lane, Apt 103, Lafayette, IN 47905</b>		CITIZENSHIP <b>India</b>

1. WITNESS NAME	WITNESS SIGNATURE	DATE
ADDRESS		CITIZENSHIP

2. WITNESS NAME	WITNESS SIGNATURE	DATE
ADDRESS		CITIZENSHIP

4. FULL NAME OF SOLE OR FIRST ASSIGNOR <b>Lucas Allen Burger</b>	ASSIGNOR'S SIGNATURE 	DATE <b>12/15/17</b>
ADDRESS <b>1747 Hunters Glen Dr., Oshkosh, WI 54904</b>		CITIZENSHIP <b>US</b>

1. WITNESS NAME <b>Paul Radavich</b>	WITNESS SIGNATURE 	DATE <b>12/15/17</b>
ADDRESS <b>W6250 Pioneer Rd - Plant 12</b>		CITIZENSHIP <b>US</b>
<b>Fond du Lac, WI 54936</b>		

2. WITNESS NAME <b>ANDREW T. SCHMIDT</b>	WITNESS SIGNATURE 	DATE <b>12/15/17</b>
ADDRESS <b>N87W27220 PERENNIAL TERRACE</b>		CITIZENSHIP <b>U.S.</b>
<b>HARTLAND, WI 53029</b>		