

<b>PATENT ASSIGNMENT COVER SHEET</b>
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Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT5815449

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
ALAN C. ANDERSON	06/12/2017
WILLIAM MARSHALL COVER	06/12/2017
XU HAN	06/19/2017
NICHOLAS JAMES WELCH	06/19/2017
DAVID GUILLERMO GONZALEZ MEDINA	06/12/2017
XIAO QIN	06/15/2017
ANDREW GUY KITCHEN	08/21/2017
DANIEL J. O'CONNOR	06/12/2017
BENJAMIN L. OLIVAS	11/05/2019
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	CUMMINS INC.
<b>Street Address:</b>	500 JACKSON STREET
<b>City:</b>	COLUMBUS
<b>State/Country:</b>	INDIANA
<b>Postal Code:</b>	47201
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Application Number:</b>	16680921
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(317)713-3699
<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>	317-713-3500
<b>Email:</b>	taft-ip-docket@taftlaw.com
<b>Correspondent Name:</b>	CUMMINS INC. TAFT, STETTINIUS & HOLLISTE
<b>Address Line 1:</b>	ONE INDIANA SQUARE
<b>Address Line 2:</b>	SUITE 3500
<b>Address Line 4:</b>	INDIANAPOLIS, INDIANA 46204-2023
<b>ATTORNEY DOCKET NUMBER:</b>	CECO-1714
<b>NAME OF SUBMITTER:</b>	LISA SCHODROWSKI

PATENT

<b>SIGNATURE:</b>	/Lisa Schodrowski/
<b>DATE SIGNED:</b>	11/12/2019
<b>Total Attachments: 11</b> source=Executed Assignment 16-0467-EBU CECO-1714#page1.tif source=Executed Assignment 16-0467-EBU CECO-1714#page2.tif source=Executed Assignment 16-0467-EBU CECO-1714#page3.tif source=Executed Assignment 16-0467-EBU CECO-1714#page4.tif source=Executed Assignment 16-0467-EBU CECO-1714#page5.tif source=Executed Assignment 16-0467-EBU CECO-1714#page6.tif source=Executed Assignment 16-0467-EBU CECO-1714#page7.tif source=Executed Assignment 16-0467-EBU CECO-1714#page8.tif source=Executed Assignment 16-0467-EBU CECO-1714#page9.tif source=Executed Assignment 16-0467-EBU CECO-1714#page10.tif source=Executed Assignment 16-0467-EBU CECO-1714#page11.tif	

## ASSIGNMENT

WHEREAS, Alan C. Anderson, William Marshall Cover, Xu Han, Nicholas James Welch, David Guillermo Gonzalez Medina, Xiao Qin, Andrew Guy Kitchen, Daniel J. O'Connor and Benjamin L. Olivas, hereinafter referred to as Assignors, have made one or more new and useful inventions in **COMBUSTION PRE-CHAMBER ASSEMBLIES FOR AN INTERNAL COMBUSTION ENGINE** for which one or more United States patent applications, international patent applications, and/or foreign patent applications have been or will be filed; and

WHEREAS, Cummins Inc., hereinafter referred to as Assignee, a corporation of the State of Indiana, having a principal place of business at 500 Jackson Street, Columbus, Indiana 47201 desires to acquire all of the entire right, title and interest in, to and under the one or more inventions disclosed, described and claimed or intended so to be in such applications, and in, to and under the applications, and in, to and under any and patents, United States and foreign, which may be obtained therefore and thereon;

NOW, THEREFORE, to all whom it may concern, be it known that for and in consideration of the sum of One Dollar (\$1.00) and other good, valuable and sufficient consideration to Assignors in hand paid, the receipt of which is hereby acknowledged, Assignors have sold, assigned and transferred, and by these presents do sell, assign and transfer unto Assignee, all of the entire right, title, and interest in, to and under the one or more inventions disclosed, described and claimed or intended so to be in U.S. Provisional Application No. 62/506,179, filed May 15, 2017 entitled **COMBUSTION PRE-CHAMBER ASSEMBLIES FOR AN INTERNAL COMBUSTION ENGINE** (hereinafter the "Application"), and any and all other applications thereon or arising therefrom, whether now filed or in the future filed,

including any and all applications claiming the benefit of the Application, divisions, continuations, continuations-in-part, and foreign counterparts thereof, and any and all patents to be issued and obtained therefor or thereon, United States and foreign, including all reissues and extensions thereof.

With respect to future applications not filed at the time of execution of this Assignment that claim priority to or claim the benefit of the Application, Assignors hereby confirm their assignment of the same to Assignee and authorize Assignee, its counsel, or its agents to fill-in some or all of the following information on one or more copies of this document at the discretion of the Assignee, its counsel, or its agents:

- (a) Patent Office Number of the Application: 62/506,179
- (b) Filing Date of the Application: May 15, 2017

Assignors hereby authorize and request the Honorable Assistant Secretary and Commissioner for Patents and Trademarks to issue said Letters Patent to Assignee, its assigns and legal representatives.

Assignors agree to assign and execute any and all other papers necessary or desirable for the procurement of Letters Patent on said invention in this and all foreign countries for the use of Assignee.

[Signature Page(s) Follow]

EXECUTED this 12<sup>th</sup> day of JUNE, 2017.

Alan C. Anderson  
Alan C. Anderson

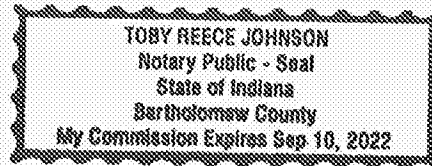
STATE OF INDIANA )  
 ) : SS  
COUNTY OF BARTHOLOMEW )

Before me, a Notary Public, in and for said County and State, personally appeared Alan C. Anderson, who, being first duly sworn upon his oath, acknowledged the execution of the foregoing "Assignment" as his voluntary act and deed.

WITNESS my hand and Notarial Seal this 12<sup>th</sup> day of June, 2017.

Toby Reece Johnson  
Notary Public

Printed: TOBY REECE JOHNSON



Resident of BARTHOLOMEW County

My Commission Expires:

SEP. 10, 2022

EXECUTED this 12 day of June, 2017.

WMC

William Marshall Cover

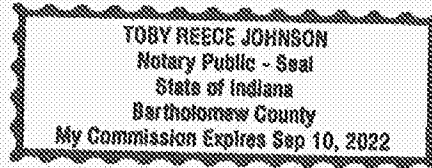
STATE OF INDIANA )  
 ) : SS  
COUNTY OF BARTHOLOMEW )

Before me, a Notary Public, in and for said County and State, personally appeared William Marshall Cover who, being first duly sworn upon his oath, acknowledged the execution of the foregoing "Assignment" as his voluntary act and deed.

WITNESS my hand and Notarial Seal this 12th day of JUNE, 2017.

Toby Reece Johnson  
Notary Public

Printed: TOBY REECE JOHNSON



Resident of BARTHOLOMEW County

My Commission Expires:

SEP. 10, 2022

EXECUTED this 19 day of June, 2017.

Xu Han  
Xu Han

STATE OF INDIANA )  
 ) : SS  
COUNTY OF BARTHOLOMEW )

Before me, a Notary Public, in and for said County and State, personally appeared Xu Han who, being first duly sworn upon his oath, acknowledged the execution of the foregoing "Assignment" as his voluntary act and deed.

WITNESS my hand and Notarial Seal this 19th day of JUNE, 2017.

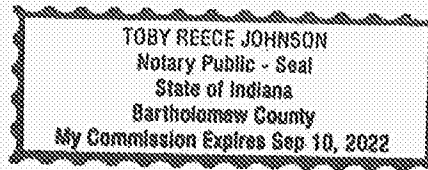
Toby Reece Johnson  
Notary Public

Printed: TOBY REECE JOHNSON

Resident of BARTHOLOMEW County

My Commission Expires:

SEP. 10, 2022



EXECUTED this 19 day of June, 2017.

Nicholas James Welch  
Nicholas James Welch

STATE OF INDIANA )  
                                          ): SS  
COUNTY OF BARTHOLOMEW)

Before me, a Notary Public, in and for said County and State, personally appeared Nicholas James Welch who, being first duly sworn upon his oath, acknowledged the execution of the foregoing "Assignment" as his voluntary act and deed.

WITNESS my hand and Notarial Seal this 19th day of JUNE, 2017.

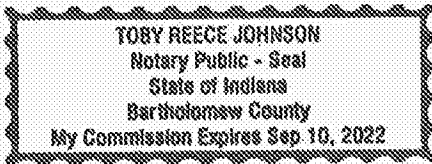
Toby Reece Johnson  
Notary Public

Printed: TOBY REECE JOHNSON

Resident of BARTHOLOMEW County

My Commission Expires:

SEP. 10, 2022





EXECUTED this 12 day of June, 2017.

[Signature]  
David Guillermo Gonzalez Medina

STATE OF Indiana )  
 ) : SS  
COUNTY OF BARTHOLOMEW )

Before me, a Notary Public, in and for said County and State, personally appeared David Guillermo Gonzalez Medina who, being first duly sworn upon his oath, acknowledged the execution of the foregoing "Assignment" as his voluntary act and deed.

WITNESS my hand and Notarial Seal this 12th day of JUNE, 2017.

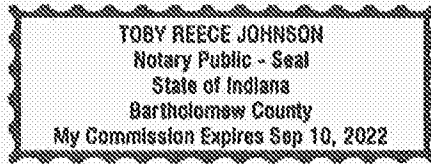
[Signature]  
Notary Public

Printed: TOBY REECE JOHNSON

Resident of BARTHOLOMEW County

My Commission Expires:

SEP. 10, 2022



EXECUTED this 15 day of June, 2017.

Xiao Qin  
Xiao Qin

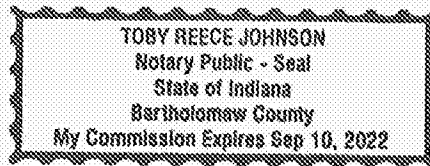
STATE OF INDIANA )  
 ) : SS  
COUNTY OF BARTHOLOMEW )

Before me, a Notary Public, in and for said County and State, personally appeared Xiao Qin who, being first duly sworn upon his oath, acknowledged the execution of the foregoing "Assignment" as his voluntary act and deed.

WITNESS my hand and Notarial Seal this 15th day of JUNE, 2017.

Toby Reece Johnson  
Notary Public

Printed: TOBY REECE JOHNSON



Resident of BARTHOLOMEW County

My Commission Expires:

SEP. 10, 2022

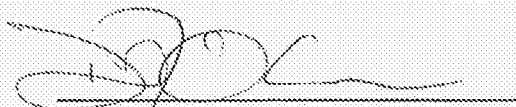
EXECUTED this 21 day of August, 2017.

Andrew Guy Kitchen  
Andrew Guy Kitchen

Gary Vance Lund  
Witness

Michael I. Stanley  
Witness

EXECUTED this 12 day of JUNE, 2017.

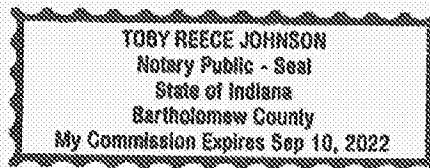
  
Daniel J. O'Connor

STATE OF INDIANA )  
 ) : SS  
COUNTY OF BARTHOLOMEW )

Before me, a Notary Public, in and for said County and State, personally appeared Daniel J. O'Connor who, being first duly sworn upon his oath, acknowledged the execution of the foregoing "Assignment" as his voluntary act and deed.

WITNESS my hand and Notarial Seal this 12<sup>th</sup> day of JUNE, 2017.

  
Notary Public




Printed: TOBY REECE JOHNSON

Resident of BARTHOLOMEW County

My Commission Expires:

SEP. 10, 2022

EXECUTED this 5 day of November, 2019.

  
Benjamin L. Olivas

26063770.1

ASSIGNMENT  
CECO-1452/16-0467-EBU  
Page 11

RECORDED: 11/12/2019

PATENT  
REEL: 050981 FRAME: 0814