

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT5381696

SUBMISSION TYPE:	NEW ASSIGNMENT	
NATURE OF CONVEYANCE:	ASSIGNMENT	
CONVEYING PARTY DATA		
	Name	Execution Date
	YINGHUAN LEI	08/21/2017
	TODD A. CORBET	08/21/2017
	ROBERT EDWARD COCHRAN	08/22/2017
	SERGIO M. HERNANDEZ-GONZALEZ	08/22/2017
	UMA VAJAPEYAZULA	08/23/2017
	WEICHAO WANG	08/21/2017
	MARC A GRECA	08/21/2017
	JOSEPH M. BRAULT	08/21/2017
RECEIVING PARTY DATA		
Name:	CUMMINS EMISSION SOLUTIONS INC.	
Street Address:	500 JACKSON STREET	
City:	COLUMBUS	
State/Country:	INDIANA	
Postal Code:	47201	
PROPERTY NUMBERS Total: 1		
	Property Type	Number
	Application Number:	16325673
CORRESPONDENCE DATA		
Fax Number:	(312)832-4700	
<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>		
Phone:	312-832-4500	
Email:	rfernandez@foley.com,jolsen@foley.com	
Correspondent Name:	ROBERTO J. FERNANDEZ/FOLEY & LARDNER LLP	
Address Line 1:	321 NORTH CLARK STREET, SUITE 2800	
Address Line 4:	CHICAGO, ILLINOIS 60654	
ATTORNEY DOCKET NUMBER:	106389-5470	
NAME OF SUBMITTER:	ROBERTO J. FERNANDEZ	
SIGNATURE:	/ Roberto J. Fernandez /	

DATE SIGNED:	02/19/2019
Total Attachments: 10 source=Assignment#page1.tif source=Assignment#page2.tif source=Assignment#page3.tif source=Assignment#page4.tif source=Assignment#page5.tif source=Assignment#page6.tif source=Assignment#page7.tif source=Assignment#page8.tif source=Assignment#page9.tif source=Assignment#page10.tif	

ASSIGNMENT - WORLDWIDE

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, each undersigned inventor (hereinafter referred to singly and collectively as "ASSIGNOR") has sold, assigned, and transferred, and by these presents hereby sells, assigns, and transfers, unto

Cummins Emission Solutions Inc.
500 Jackson Street
Columbus, Indiana 47201

(hereinafter referred to as "ASSIGNEE") its successors and assigns, the full and exclusive right, title and interest for the United States, its territories and possessions, and all foreign countries in and to this invention relating to

SYSTEM FOR ADAPTIVE REGENERATION OF AFTERTREATMENT SYSTEM COMPONENTS

as set forth in this United States Patent Application

check one ☐ executed concurrently herewith,
 ☐ executed on _____,
 ☒ Serial No. PCT/US2017/046755 Filed 8/14/2017

as well as in and to (a) all improvements and modifications of the above-identified invention or inventions, (b) the above-identified application and all other applications for Letters Patent of the United States and countries foreign thereto for above-identified invention or inventions and all improvements and modifications thereof, (c) all Letters Patent which may issue from said applications in the United States and countries foreign thereto, (d) all divisions, continuations, reissues, and extensions of said applications and Letters Patent, and (e) the right to claim for any of said applications the full benefits and priority rights under the Patent Cooperation Treaty, the Paris Convention and any other international agreement; such right, title, and interest to be held and enjoyed by ASSIGNEE, its successors and assigns, to the full end of the term or terms for which any and all such Letters Patent may be granted as fully and entirely as would have been held and enjoyed by ASSIGNOR had this Assignment not been made.

ASSIGNOR HEREBY AUTHORIZES ASSIGNEE to file patent applications in any or all countries on the above-identified invention or inventions in the name of the undersigned or in the name of ASSIGNEE or otherwise as ASSIGNEE may deem advisable under the International Convention or otherwise.

ASSIGNOR HEREBY AUTHORIZES AND REQUESTS the Commissioner of Patents and Trademarks to issue said Letters Patent to ASSIGNEE as assignee of the entire interest, for the sole use and benefit of ASSIGNEE, its successors and assigns.

ASSIGNOR HEREBY AGREES (a) to communicate to ASSIGNEE, its successors and assigns, or their representative or agents, all facts and information known or available to ASSIGNOR respecting said invention or inventions, improvements, and modifications including evidence for interference, reexamination, reissue, opposition, revocation, extension, or infringement purposes or other legal, judicial, or administrative proceedings, whenever requested by ASSIGNEE; (b) to testify in person or by affidavit as required by ASSIGNEE, its successors and assigns, in any such proceeding in the United States or a country foreign thereto; (c) to execute and deliver, upon request by ASSIGNEE, all lawful papers including, but not limited to, original, divisional, continuation, and reissue applications, renewals, assignments, powers of attorney, oaths, affidavits, and declarations, depositions; and (d) to provide all reasonable assistance to ASSIGNEE, its successors and assigns, in obtaining and enforcing proper title in and protection for said invention or inventions, improvements, and modifications under the intellectual property laws of the United States and countries foreign thereto.

ASSIGNOR HEREBY REPRESENTS AND WARRANTS that ASSIGNOR has the full and unencumbered right to sell, assign, and transfer the interests sold, assigned, and transferred herein, and that ASSIGNOR has not executed and will not execute any document or instrument in conflict herewith.

ASSIGNOR HEREBY GRANTS to the law firm of **Foley & Lardner LLP** the power and authority to insert in this Assignment any further identification which may be necessary or desirable to comply with the rules of the U.S. Patent and Trademark Office for recordation of this Assignment.

ASSIGNOR UNDERSTANDS AND AGREES that the attorneys and agents of the law firm of **Foley & Lardner LLP** do not personally represent ASSIGNOR OR ASSIGNOR's legal interests, but instead represent the interests of ASSIGNEE; since said attorneys and agents cannot provide legal advice to ASSIGNOR with respect to this Assignment, ASSIGNOR acknowledges its right to seek its own independent legal counsel.

Executed this 21 day of Aug, 2017.

Yinghuan Lei
YINGHUAN LEI

State of Indiana

County of Bartholomew

On Aug. 21, 2017, before me, Carmelita Kay Kohl-Smith /Notary Public
Doe Here insert Name and Title of the Officer (Notary Public)

personally appeared YINGHUAN LEI
Name(s) of Signer(s)

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/their executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

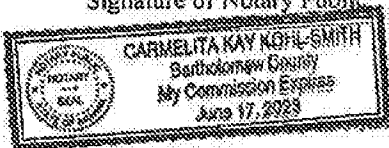
I certify under PENALTY OF PERJURY that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature

Carmelita Kay Kohl-Smith

Signature of Notary Public



Place Notary Seal Above

Executed this 21 day of Aug, 2017

Todd A. Corbet
TODD A. CORBET

State of Indiana

County of Bartholomew

On Aug. 21, 2017, before me, Carmelita Kay Kohl-Smith /Notary Public
Date Here insert Name and Title of the Officer (Notary Public)

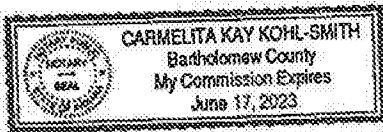
personally appeared TODD A. CORBET
Name(s) of Signer(s)

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/their executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature Carmelita Kay Kohl-Smith
Signature of Notary Public



Place Notary Seal Above

Executed this 22 day of August, 2017.


ROBERT EDWARD COCHRAN

State of Indiana

County of Bartholomew

On Aug. 22, 2017, before me, Carmelita Kay Kohl-Smith /Notary Public
Date Here insert Name and Title of the Officer (Notary Public)

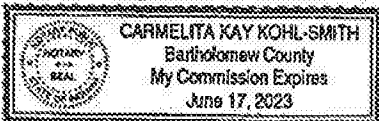
personally appeared ROBERT EDWARD COCHRAN
Name(s) of Signer(s)

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/their executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY that the foregoing paragraph is true and correct.


WITNESS my hand and official seal.

Signature Carmelita Kay Kohl-Smith
Signature of Notary Public



Place Notary Seal Above

Executed this 22 day of August, 2017.


SERGIO M. HERNANDEZ-GONZALEZ

State of Indiana

County of Bartholomew

On Aug. 22, 2017, before me, Carmelita Kay Kohl-Smith /Notary Public
Date Here insert Name and Title of the Officer (Notary Public)

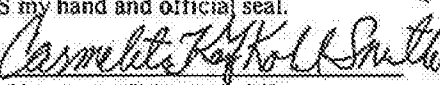
personally appeared SERGIO M. HERNANDEZ-GONZALEZ
Name(s) of Signer(s)

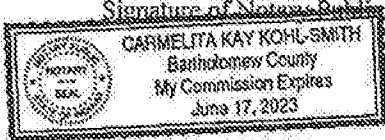
who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/their executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature


Signature of Notary Public



Place Notary Seal Above

Executed this 23 day of Aug, 2017.



UMA VAJAPEYAZULA

State of Indiana

County of Bartholomew

On Aug 23, 2017, before me, Carmelita Kay Kohl-Smith /Notary Public
Date Here insert Name and Title of the Officer (Notary Public)

personally appeared UMA VAJAPEYAZULA
Name(s) of Signer(s)

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/their executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

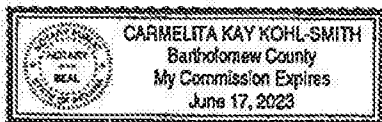
I certify under PENALTY OF PERJURY that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature

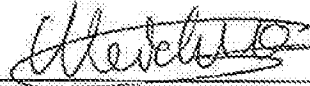


Signature of Notary Public



Place Notary Seal Above

Executed this 21 day of August, 2017



WEICHAO WANG

State of Indiana

County of Bartholomew

On Aug. 21, 2017, before me, Carmelita Kay Kohl-Smith /Notary Public
Date Here insert Name and Title of the Officer (Notary Public)

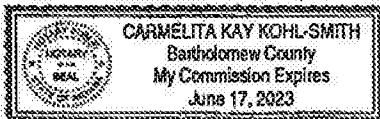
personally appeared WEICHAO WANG
Name(s) of Signer(s)

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/their executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature: Carmelita Kay Kohl-Smith
Signature of Notary Public



Place Notary Seal Above

Executed this 21 day of August, 2017.


MARC A GRECA

State of Indiana

County of Bartholomew

On August 21, 2017, before me, Carmelita Kay Kohl-Smith /Notary Public
Date Here insert Name and Title of the Officer (Notary Public)

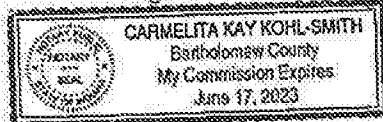
personally appeared MARC A GRECA
Name(s) of Signer(s)

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/their executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature Carmelita Kay Kohl-Smith
Signature of Notary Public



Place Notary Seal Above

Executed this 21st day of August, 2017.


JOSEPH M. BRAULT

State of Indiana

County of Bartholomew

On Aug. 21, 2017, before me, Carmelita Kay Kohl-Smith /Notary Public
Date Here insert Name and Title of the Officer (Notary Public)

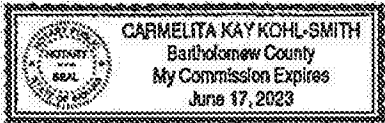
personally appeared JOSEPH M. BRAULT
Name(s) of Signer(s)

who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/their executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature Carmelita Kay Kohl-Smith
Signature of Notary Public



Place Notary Seal Above