505488132 05/22/2019

PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT5534936

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
ORLANDO DWAYNE PREVOT	04/02/2019
ARULKUMARAN MUTHUKUMARASAMY	04/02/2019
NICHOLAS RAY LEWIS	04/01/2019
VAIBHAV J. LAWAND	04/02/2019

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:	16031190

CORRESPONDENCE DATA

Fax Number: (312)832-4700

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: 312-832-4500

Email: rfernandez@foley.com,jolsen@foley.com

ROBERTO J. FERNANDEZ/FOLEY & LARDNER LLP **Correspondent Name:**

321 NORTH CLARK STREET, SUITE 2800 Address Line 1:

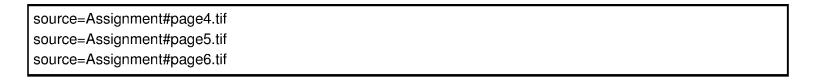
Address Line 4: CHICAGO, ILLINOIS 60654

ATTORNEY DOCKET NUMBER:	106389-4928	
NAME OF SUBMITTER:	ROBERTO J. FERNANDEZ	
SIGNATURE:	/ Roberto J. Fernandez /	
DATE SIGNED:	05/22/2019	

Total Attachments: 6

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> **PATENT** REEL: 049251 FRAME: 0792 505488132



PATENT REEL: 049251 FRAME: 0793

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

HEATING SYSTEM FOR A TANK HEADER OF AFTERTREATMENT SYSTEM AND METHOD OF HEATING A TANK HEADER

check one	ſ] executed concurrently herewith,
	1.00] executed on
	[X	Serial No. 16/031,190 Filed 7/10/2018

as set forth in this United States Patent Application

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.

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4816-8693-1600.1

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 2 day of April , 20 19.

ORLANDO DWAYNE PREVOT

State of Indiana)

County of Bartholomew)

On April 2017, before me, Carmelita Kay Kohl-Smith/Notary Public

Date

Here insert Name and Title of the Officer (Notary Public)

personally appeared <u>ORLANDO DWAYNE PREVOT</u> 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 Rublic

CARMELITA KAY KOHL SMITH Bartholomew County My Commission Expires

Juna 17, 2023

Place Notary Seal Above

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Executed this <u>02</u> day of <u>April</u>, 2019.

ARULKUMARAN MUTHUKUMARASAMY

State of Indiana)

County of Bartholomew)

On April 2 2019, before me, Carmelita Kay Kohl-Smith/Notary Public

Date

Here insert Name and Title of the Officer (Notary Public)

personally appeared ARULKUMARAN MUTHUKUMARASAMY

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

CARMELITA KAY KOHL-SMITH
Bartholomew County
My Commission Expires
June 17, 2023

Place Notary Seal Above

Executed this Ol day of April, 2019.

NICHOLAS RAY LEWIS

State of Indiana)

County of Bartholomew)

On April 11, 2019, before me, Carmelita Kay Kohl-Smith/Notary Public

Date

Here insert Name and Title of the Officer (Notary Public)

personally appeared NICHOLAS RAY LEWIS

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.

Also do

Signature (Signature of Notary Public)

CARMELITA KAY KOHL-SMITH
Bartholomew County
My Commission Expires
June 17, 2023

Place Notary Seal Above

Atty, Dkt. No. 106389-4928

Executed this 2 day of April , 2019.	Med
	VAIBHAV J. LAWAND
State of Michigan County of Wayne On 04-03-2019, before me, SEAN Date Here insert N	T Conover Notery Public
personally appeared <u>VAIBHAV J. LAWAND</u> Name(s) of Signer(s)	ame and Tille of the Officer (Notary Public)
who proved to me on the basis of satisfactory evidence to to the within instrument and acknowledged to me that he/she/their ecapacity(ies), and that by his/her/their signature(s) on the instrument which the person(s) acted, executed the instrument.	executed the same in his/her/their authorized
I certify under PENALTY OF PERJURY that the foregoin	g paragraph is true and correct.
WITNESS my hand and official seal. Signature Signature of Notary Public	SEAN T CONOVER Notary Public - State of Michigan County of Wayne My Commission Expires Dec 13, 2020 Acting in the County of

RECORDED: 05/22/2019

Place Notary Seal Above

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