

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
 Stylesheet Version v1.2

EPAS ID: PAT6518668

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
SHANE O'CONNOR	03/30/2016
MICHAEL T. LYNCH	03/29/2016
RYAN M. JOHNSON	03/30/2016
RANDOLPH G. ZORAN	03/30/2016
ALEX A. BETHKE	04/01/2016
VICTOR C. CHEW	03/29/2016
ANDREW KOMISAREK	03/30/2016
MICHAEL BATES	03/30/2016
JACK ERICKSON	04/01/2016
DANIEL EDWARD NOVRESKE	04/01/2016
RYAN ROBERT WELCH	03/30/2016
CHAD CARIUS	03/30/2016
OSCAR CHAVIRA	03/29/2016
BRANDON LEEDY	03/30/2016
ERIC R. BUTLER	03/30/2016
WILLIAM J. RUNDE	03/30/2016
BUCKY WOODS	04/01/2016
JUAN MANUEL VALENCIA ARCILA	12/04/2018

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:	17158886

CORRESPONDENCE DATA

Fax Number:

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: 3218325763
Email: jwiggins@foley.com
Correspondent Name: AERAJ U. HAQUE/FOLEY & LARDNER LLP
Address Line 1: 321 N. CLARK STREET
Address Line 2: SUITE 3000
Address Line 4: CHICAGO, ILLINOIS 60654

ATTORNEY DOCKET NUMBER:	106389-6584
NAME OF SUBMITTER:	AERAJ U. HAQUE
SIGNATURE:	/Aeraj U. Haque/
DATE SIGNED:	01/27/2021

Total Attachments: 20

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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, IN 47201
U.S.A.

(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

Integrated Aftertreatment System

as set forth in this United States Patent Application

check one executed concurrently herewith,
 executed on _____,
 Serial No. 15/559,367 Filed September 18, 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 30 day of MARCH 2016.


SHANE O'CONNOR

State of Wisconsin
County of Dane

On 3-30-16 before me, Darcy Prokopac, Adm. Asst.
Date Here insert Name and Title of the Officer (Notary Public)

personally appeared SHANE O'CONNOR
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/they 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.

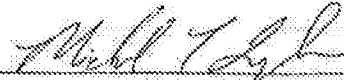
I certify under PENALTY OF PERJURY that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature Darcy Prokopac
Signature of Notary Public 3-30-18 exp.

Place Notary Seal Above

Executed this 29 day of MARCH, 2016.


MICHAEL T. LYNCH

State of WI
County of TOWNE

On 03/29/2016, before me, Sue T Howdle Notary
Date Here insert Name and Title of the Officer (Notary Public)

personally appeared MICHAEL T. LYNCH
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 Sue T Howdle Comm Exp 10-29-2017
Signature of Notary Public

Place Notary Seal Above

Executed this 30th day of March, 2016

Ryan M. Johnson
RYAN M. JOHNSON

State of Wisconsin
County of Dane

On 3-30-16 before me, Nancy Prokopac, Adm. Asst.
Date Here insert Name and Title of the Officer (Notary Public)

personally appeared RYAN M. JOHNSON
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 Nancy Prokopac
Signature of Notary Public 3-30-18 Exp

Place Notary Seal Above

Executed this 30 day of March 2016

Randolph G. Zoran
RANDOLPH G. ZORAN

State of Wisconsin
County of Dane

On 3-30-16 before me, Darcy Pralopoc, Adm. Asst.
Date Here insert Name and Title of the Officer (Notary Public)

personally appeared RANDOLPH G. ZORAN
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 Darcy Pralopoc
Signature of Notary Public 3-30-18 Exp

Place Notary Seal Above

Executed this 1 day of April, 2016.

ALEX A. BETHKE

State of Colorado
County of Boulder

On 04/01/2016, before me, Nickolas Karichkowsky
Date Here insert Name and Title of the Officer (Notary Public)

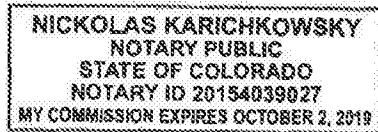
personally appeared ALEX A. BETHKE
Name(s) of Signer(s)

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.

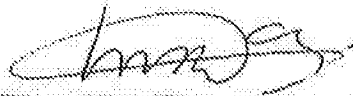
WITNESS my hand and official seal.

Signature
Signature of Notary Public



Place Notary Seal Above

Executed this 29 day of March, 20 16



VICTOR C. CHEW

State of Indiana)

County of Bartholomew)

On March 29, 2016, before me, Carmelita Kay Kohl-Smith /Notary Public
Date Here insert Name and Title of the Officer (Notary Public)

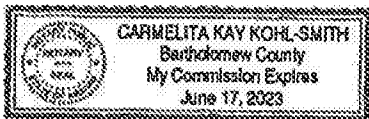
personally appeared VICTOR C. CHEW
Name(s) of Signer(s)

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 30th day of March, 2016.


ANDREW KOMISAREK

State of Wisconsin
County of Dane

On 3-30-16 before me, Darcy Prokepec, Adm. Asst.
Date Here insert Name and Title of the Officer (Notary Public)

personally appeared ANDREW KOMISAREK
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 Darcy Prokepec
Signature of Notary Public 3-30-18 Exp.

Place Notary Seal Above

Executed this 30 day of March, 2016.

Michael Bates
MICHAEL BATES

State of Indiana

County of Bartholomew

On March 30, 2016, before me, Carmelita Kay Kohl-Smith /Notary Public
Date Here Insert Name and Title of the Officer (Notary Public)

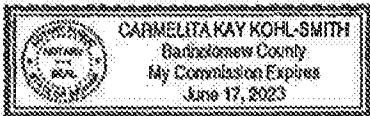
personally appeared MICHAEL BATES
Name(s) of Signer(s)

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.

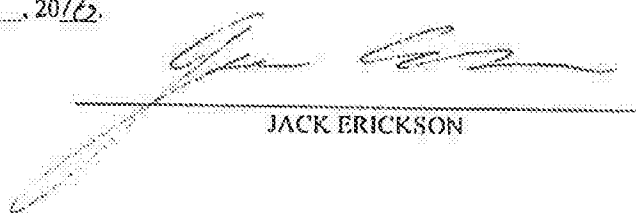
WITNESS my hand and official seal.

Signature *Carmelita Kay Kohl-Smith*
Signature of Notary Public



Place Notary Seal Above

Executed this 1 day of April, 2016.



JACK ERICKSON

State of Indiana)

County of Bartholomew)

On April 1, 2016, before me, Carmelita Kay Kohl-Smith / Notary Public
Date Here Insert Name and Title of the Officer (Notary Public)

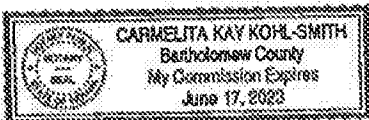
personally appeared JACK ERICKSON
Name(s) of Signer(s)

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 1 day of April, 2016.

DANIEL EDWARD NOVRESKE

State of Indiana

County of Bartholomew

On April 1, 2016, before me, Carmelita Kay Kohl-Smith / Notary Public
Date Here insert Name and Title of the Officer (Notary Public)

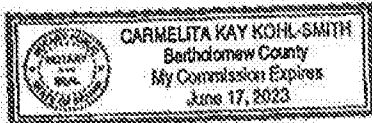
personally appeared DANIEL EDWARD NOVRESKE
Name(s) of Signer(s)

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 30 day of March, 2016.

Ryan R Welch
RYAN ROBERT WELCH

State of Wisconsin
County of Dane

On 3-30-16, before me, Darcy Prokopoc, Adm. Asst.
Date Here insert Name and Title of the Officer (Notary Public)

personally appeared RYAN ROBERT WELCH
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 Darcy Prokopoc
Signature of Notary Public 3-30-18 exp.

Place Notary Seal Above

Executed this 30 day of March, 2016.

Chad Carius

CHAD CARIUS

State of Indiana)

County of Bartholomew)

On March 30, 2016, before me, Carmelita Kay Kohl-Smith Notary Public
Date Here insert Name and Title of the Officer (Notary Public)

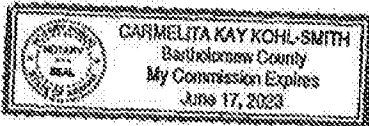
personally appeared CHAD CARIUS
Name(s) of Signer(s)

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 3 day of 29, 2016.



OSCAR CHAVIRA

State of Indiana

County of Bartholomew

On March 29, 2016, before me, Carmelita Kay Kohl-Smith /Notary Public
Date Here insert Name and Title of the Officer (Notary Public)

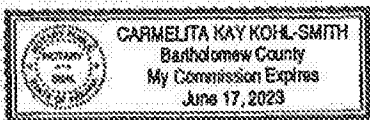
personally appeared OSCAR CHAVIRA
Name(s) of Signer(s)

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 30th day of April, 2011

B Leedy
BRANDON LEEDY

State of Wisconsin
County of Dane

On 5-30-16 before me, Darcy Prokepec, Adm. Asst.
Date Here insert Name and Title of the Officer (Notary Public)

personally appeared BRANDON LEEDY
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 Darcy Prokepec
Signature of Notary Public 3-30-18 Exp.

Place Notary Seal Above

Executed this 30 day of MARCH, 2016.


ERIC R. BUTLER

State of Wisconsin
County of DANE

On 3-30-16, before me, Darcy Prokopac, Adm. Assst.
Date Here insert Name and Title of the Officer (Notary Public)

personally appeared ERIC R. BUTLER
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.

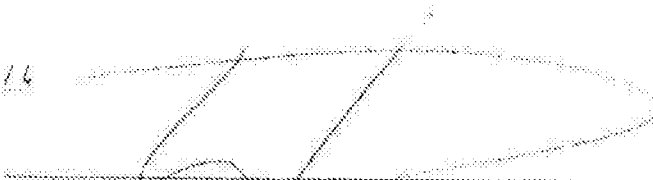
I certify under PENALTY OF PERJURY that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

Signature Darcy Prokopac
Signature of Notary Public 3-30-18 Exp.

Place Notary Seal Above

Executed this 30 day of MARCH 20 14


WILLIAM J. RUNDE

State of Wisconsin
County of DANE

on 3-30-16 before me Darcy Prokopac, Adm. Asst.
Date Here insert Name and Title of the Officer (Notary Public)

personally appeared WILLIAM J. RUNDE
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 Darcy Prokopac
Signature of Notary Public 3/30/18 exp.

Place Notary Seal Above

Executed this 1 day of Apr., 2016.


BUCKY WOODS

State of Indiana)

County of Bartholomew)

On April 1, 2016, before me, Carmelita Kay Kohl-Smith / Notary Public
Date Here insert Name and Title of the Officer (Notary Public)

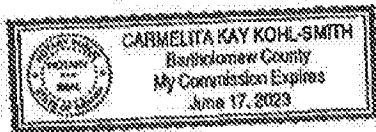
personally appeared BUCKY WOODS
Name(s) of Signer(s)

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 04 day of December, 2018.


JUAN MANUEL VALENCIA ARCILA

State of INDIANA)
County of BARTHOLOMEW)

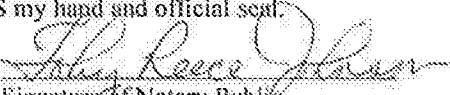
On 04-DEC-2018, before me, TOBY REECE JOHNSON
Date Here insert Name and Title of the Officer (Notary Public)

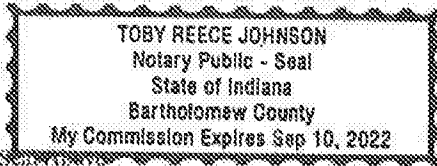
personally appeared JUAN MANUEL VALENCIA ARCILA
Name(s) of Signer(s)

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 Here