

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
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EPAS ID: PAT3003723

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
KERANG WANG	03/04/2014
MICKEY R. MCDANIEL	03/05/2014
YI YUAN	03/05/2014
BALBAHADUR SINGH	03/04/2014
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	CUMMINS IP, INC.
<b>Street Address:</b>	1400 73RD AVENUE NE
<b>City:</b>	MINNEAPOLIS
<b>State/Country:</b>	MINNESOTA
<b>Postal Code:</b>	55432
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>PCT Number:</b>	US2014018923
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	
<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>	312-832-4500
<b>Email:</b>	ipdocketing@foley.com, dkong@foley.com
<b>Correspondent Name:</b>	FOLEY & LARDNER LLP
<b>Address Line 1:</b>	3000 K STREET NW
<b>Address Line 2:</b>	SUITE 600
<b>Address Line 4:</b>	WASHINGTON, D.C. 20007
<b>ATTORNEY DOCKET NUMBER:</b>	106389-2607
<b>NAME OF SUBMITTER:</b>	MARSHALL J. BROWN
<b>SIGNATURE:</b>	/marshall j brown/
<b>DATE SIGNED:</b>	08/29/2014
<b>Total Attachments: 4</b>	
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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 IP, INC.  
1400 73<sup>rd</sup> Avenue NE  
Minneapolis, MN 55432

(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

**APPARATUS, METHOD AND SYSTEM FOR DIAGNOSING REDUCTANT DELIVERY  
PERFORMANCE**

as set forth in this United States Patent Application

*check one*      ☐ executed concurrently herewith,  
                  ☐ executed on \_\_\_\_\_,  
                  ☒ Serial No. PCT/US2014/018923 Filed 2/27/2014

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 4<sup>th</sup> day of March, 2014.

Kerang Wang

KERANG WANG

State of IN

County of Bartholomew

On this 4<sup>th</sup> day of March, 2014, before me, Annette S Hoover (a notary public in and for said county), personally appeared KERANG WANG, who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

Signature: Annette S Hoover



ANNETTE S. HOOVER  
Commission # 598466  
Res. of Bartholomew Co.  
Comm. Exp. Dec. 07, 2016

My Commission Expires: 12-7-2016

Executed this 5<sup>th</sup> day of March, 2014

Mickey R Mcdaniel

MICKEY R. MCDANIEL

State of Indiana

County of Bartholomew

On this 5<sup>th</sup> day of March, 2014, before me, Lisa King (a notary public in and for said county), personally appeared MICKEY R. MCDANIEL, who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

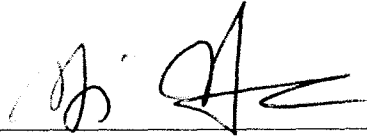
WITNESS my hand and official seal.

Signature: Lisa King



My Commission Expires: 2-1-2020

Executed this 5<sup>th</sup> day of March, 2014.



YI YUAN

State of IN)

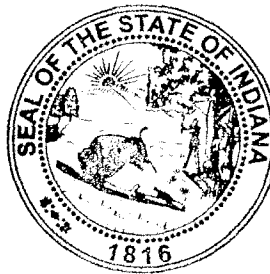
County of Bartholomew)

On this 5<sup>th</sup> day of March, 2014, before me, Lyndsay Kendrick (a notary public in and for said county), personally appeared YI YUAN, who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

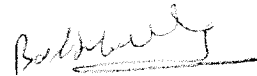
Signature Lyndsay Kendrick

My Commission Expires: 11-9-2020



LYNDSAY KENDRICK  
Bartholomew County  
Commission # 639034  
Expiration 11-09-2020

Executed this 04 day of March, 2014.



BALBAHADUR SINGH

State of IN)

County of Bartholomew)

On this 4<sup>th</sup> day of March, 2014, before me, Annette S Hoover (a notary public in and for said county), personally appeared BALBAHADUR SINGH, who proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same in his/her authorized capacity, and that by his/her signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

Signature Annette S Hoover

My Commission Expires: 12-7-2014



ANNETTE S. HOOVER  
Commission # 598466  
Res. of Bartholomew Co.  
Comm. Exp. Dec. 07, 2016