

PATENT ASSIGNMENT COVER SHEET

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EPAS ID: PAT7599846

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
JEFFREY DIWAKAR ABRAHAM	06/08/2022
MARCELA SCHMALZ DE BERNARDI	04/06/2022
AVRA BRAHMA	06/11/2022
TIMOTHY J. GREIS	04/08/2022
MICHAEL HAAS	04/06/2022
GREGORY H. HENDERSON	10/19/2022
ADAM W. KIDD	06/22/2022
LYLE E. KOCHER	04/06/2022
KRITHIKA MOHAN	01/07/2021
DANIEL J. SMITH	06/08/2022
CHRISTOPHE TRICAUD	09/20/2022
ANANTH VEMURI	08/12/2022
EASWAR YARRABIKKI	06/08/2022

RECEIVING PARTY DATA

Name:	CUMMINS INC.
Street Address:	500 JACKSON STREET
City:	COLUMBUS
State/Country:	INDIANA
Postal Code:	47201

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	17247383

CORRESPONDENCE DATA

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PATENT

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ATTORNEY DOCKET NUMBER: 106389-6174

NAME OF SUBMITTER: KATIE SCHWALBACH

SIGNATURE: /Katie Schwalbach/

DATE SIGNED: 10/19/2022

Total Attachments: 15

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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 Inc.
500 Jackson Street
Columbus, IN 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

FAULT ISOLATION USING ON-BOARD DIAGNOSTIC (OBD) CAPABILITY DATA

as set forth in this United States Patent Application

check one executed concurrently herewith,
 executed on _____,
 Serial No. 17/247383 Filed 12/9/2020

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.

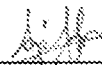
ASSIGNOR HEREBY AGREES (a) to communicate to ASSIGNEE, its successors and assigns, or their representative or agents, all facts and information known or available to ASSIGNOR respecting said invention or inventions, improvements, and modifications including evidence for interference, reexamination, reissue, 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 08 day of June, 2022.



JEFEREY DIWAKAR ABRAHAM

Executed this 6 day of April, 2022.



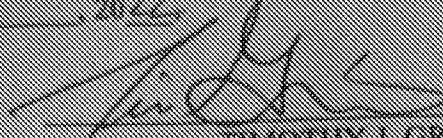
MARCELA SCHMALZ DE BERNARDI

Executed this 11th day of June, 2022



AVRA BRAHMA


Executed this 8 day of April, 2022


TIMOTHY J. GREIS

Executed this 6th day of April, 2022.


MICHAEL HAAS

Executed this 19 day of OCTOBER, 2022.



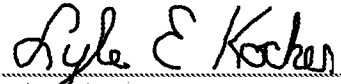
GREGORY H. HENDERSON

Executed this 22 day of June, 2022.

Adam W. Kidd

ADAM W. KIDD

Executed this 06 day of April, 2022.



Lyle Kocher (Apr 6, 2022 11:19 EDT)

LYLE E. KOCHER


NAME AND SIGNATURE OF INVENTOR

Name: KRITHIKA MOHAN

Signature: Krithika

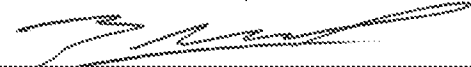
Date: 1/7/2021

Executed this 8 day of June, 2022



DANIEL J. SMITH

Executed this 20th day of September, 2022.



CHRISTOPHE TRICAUD

8/12/2022

Executed this _____ day of _____, 20____.

DocuSigned by:

Ananth Vemuri

C2098B81D97544E...

ANANTH VEMURI

Executed this 8 th day of June, 2022.

E. Easwar kumar

EASWAR YARRABIKKI