

PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1
Stylesheet Version v1.2

EPAS ID: PAT8356491

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
TATA CONSULTANCY SERVICES LIMITED	10/10/2022
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
PCT Number:	US2017045300
CORRESPONDENCE DATA	
Fax Number:	(202)672-5399
<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:	2026725300
Email:	kschwalbach@foley.com, ipdocketing@foley.com
Correspondent Name:	FOLEY & LARDNER LLP
Address Line 1:	3000 K STREET, N.W.
Address Line 2:	SUITE 600
Address Line 4:	WASHINGTON, D.C. 20007
ATTORNEY DOCKET NUMBER:	106389-4539
NAME OF SUBMITTER:	KATIE SCHWALBACH
SIGNATURE:	/Katie Schwalbach/
DATE SIGNED:	12/29/2023
Total Attachments: 3	
source=Executed_Assignment_TCS_to_CumminsInc#page1.tif	
source=Executed_Assignment_TCS_to_CumminsInc#page2.tif	
source=Executed_Assignment_TCS_to_CumminsInc#page3.tif	

Atty. Dkt. Nos. 106389-4539
106389-5984
106389-5983
106389-5982
106389-6476
106389-7496

PATENT ASSIGNMENT - WORLDWIDE

This assignment agreement ("Assignment") is between Tata Consultancy Services Limited, an Indian corporation, with registered office at 9th Floor, Nirmal Building, Nariman Point, Mumbai - 400021 (assignee of Tata America International Corporation of 101 Park Ave., Floor 26, New York City, New York 10178) ("TATA") and Cummins Inc. of 500 Jackson Street, Columbus, Indiana 47201 ("CUMMINS"). Pursuant to the Master Services Agreement for Engineering Services dated July 1, 2012 between TATA and CUMMINS, TATA has conveyed, transferred, and assigned to CUMMINS certain intellectual property, and has agreed to execute and deliver this Assignment, for recording with the United States Patent and Trademark Office and corresponding entities or agencies in any applicable jurisdictions.

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, TATA has sold, assigned, transferred and sets over, and by these presents hereby sells, assigns, transfers and sets over, to CUMMINS, 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 the invention(s) set forth in the patent applications identified in Exhibit A (the "Inventions") as well as in and to (a) all improvements and modifications of the Inventions made in the performance of services for CUMMINS, (b) the identified applications in Exhibit A and all other applications for Letters Patent of the United States and countries foreign thereto for the Inventions and all improvements and modifications thereof made in the performance of services for CUMMINS, including, without limitation, all divisions, continuations, continuation-in-parts, reexaminations, renewals, reissues, and/or extensions of any application that claims priority to the applications in Exhibit A, (c) all Letters Patent which may issue from said applications in Exhibit A in the United States and countries foreign thereto, (d) the right to claim for any of the applications in Exhibit A the full benefits and priority rights under the Patent Cooperation Treaty, the Paris Convention and any other international agreement, (e) all rights, claims, and privileges pertaining to the applications in Exhibit A, including, without limitation, rights to the underlying Inventions and all improvements and modifications thereto made in the performance of services for CUMMINS, the right to prosecute and maintain the applications in Exhibit A and any resulting Letters Patent therefrom, and any and all claims at law or at equity, whether presently known, unknown, accrued or to accrue, arising out of past or present infringements of the claims of any patent application or Letters Patent resulting from the applications in Exhibit A, including the right to recover all claims for damages and compensation. Such right, title, and interest to be held and enjoyed by CUMMINS, its successors and assigns, to the full end of the term or terms for which any and all such Letters Patent may be granted.

TATA HEREBY AUTHORIZES CUMMINS to file patent applications in any or all countries on the Inventions in the name of the undersigned or in the name of CUMMINS or otherwise as CUMMINS may deem advisable under the International Convention or otherwise.

At CUMMINS cost and expense, TATA HEREBY AGREES (a) to communicate to CUMMINS, its successors and assigns, or their representative or agents, all facts and information



Atty. Dkt. Nos. 106389-4539

106389-5984

106389-5983

106389-5982

106389-6476

106389-7496

known or available to TATA respecting the Inventions including evidence for, reexamination, reissue, extension, or infringement purposes or other legal, judicial, or administrative proceedings, whenever requested by CUMMINS; (b) to testify in person or by affidavit as required by CUMMINS, 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 CUMMINS, all lawful papers including, but not limited to, original, divisional, continuation, continuation-in-part, and reissue applications, renewals, assignments, powers of attorney, oaths, affidavits, and declarations, depositions; and (d) to provide all reasonable assistance to CUMMINS, its successors and assigns, in obtaining and enforcing proper title in and protection for the Inventions under the intellectual property laws of the United States and countries foreign thereto.

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

TATA AND CUMMINS HEREBY GRANT 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 or other jurisdiction for recordation of this Assignment.

ASSIGNOR



Tata Consultancy Services Limited

ASSIGNEE

Cummins Inc.

By: A. My [Signature]

[Signature]

By: D. J. Davis [Signature]

[Signature]

Name: REGUAYIPANJANY

Senior Vice President & Global Head,
Internet of Things (IoT) and Digital Engineering
TATA Consultancy Services Ltd.
Title: Senior, Chennai - 803 103.

Name: DAVE J. DAVIS

[Print]

Title: DEPT. GENERAL COUNSEL +
CHIEF IP COUNSEL

Date: 10/0ct/2022

Date: 13 DEC 2023

Atty. Dkt. Nos. 106389-4539
106389-5984
106389-5983
106389-5982
106389-6476
106389-7496

EXHIBIT A

Title	Jurisdiction	Patent Application No.	Filing Date
OPEN LOAD DIAGNOSTICS FOR LOADS THAT ARE PWM CONTROLLED		PCT/US2017/045300	August 3, 2017
OPEN LOAD DIAGNOSTICS FOR LOADS THAT ARE PWM CONTROLLED	China	201780093602	February 3, 2020
OPEN LOAD DIAGNOSTICS FOR LOADS THAT ARE PWM CONTROLLED	India	202047005880	February 11, 2020
OPEN LOAD DIAGNOSTICS FOR LOADS THAT ARE PWM CONTROLLED	U.S.A.	16/634399	January 27, 2020
VOLTAGE TO RESISTANCE ELECTRONIC HARDWARE CONVERTER	India	202141020830	May 7, 2021
VOLTAGE TO RESISTANCE ELECTRONIC HARDWARE CONVERTER	China	2022104898278	May 6, 2022

