505813709 12/10/2019

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

CONVEYING PARTY DATA

Name	Execution Date
JAYA BHARATH R. GOLUGURI	03/25/2019
FELIPE G. SALLES	03/21/2019
CHRISTOPHER J. RISBERG	03/25/2019
JOSHUA C. BATIE	03/26/2019

RECEIVING PARTY DATA

Name:	TOYOTA MOTOR NORTH AMERICA, INC.	
Street Address:	6565 HEADQUARTERS DRIVE W1-3C	
City:	PLANO	
State/Country:	TEXAS	
Postal Code:	75024	

PROPERTY NUMBERS Total: 1

Property Type	Number
Application Number:	16709829

CORRESPONDENCE DATA

Fax Number: (866)415-0983

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: 9728491310

Email: mzarinelli@proactivepatentslawfirm.com
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ATTORNEY DOCKET NUMBER:	IP-A-3636-C1
NAME OF SUBMITTER:	RAFFI GOSTANIAN
SIGNATURE:	/Raffi Gostanian/
DATE SIGNED:	12/10/2019

Total Attachments: 5

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PATENT 505813709 REEL: 051237 FRAME: 0690

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DECLARATION (37 C.F.R. 1.63) FOR UTILITY PATENT APPLICATION USING AN APPLICATION DATA SHEET (37 C.F.R. 1.76) AND ASSIGNMENT

VEHICLE DATA SHARING WITH INTERESTED PARTIES

This declaration is directed to the attached application, or (if following bo	ox is checked):	
[X] United States application or PCT international application number	16370278	filed on

The above-identified application was made or authorized to be made by me.

As a below named and undersigned inventor, I hereby declare that:

I believe that I am the original inventor or an original joint inventor of a claimed invention in the application. I have reviewed and understand the contents of the application, including the claims.

I am aware of the duty to disclose to the United States Patent and Trademark Office all information known to me to be material to patentability as defined in 37 CFR Section 1.56.

Whereas, I ("ASSIGNOR") have made certain inventions, improvements, and discoveries (herein referred to as the "Invention") disclosed in the above-identified patent application and further identified by the TOYOTA MOTOR NORTH AMERICA, INC. Reference Number provided above in the header of this document;

Whereas, TOYOTA MOTOR NORTH AMERICA, INC. (herein referred to as the "ASSIGNEE"), a corporation of California having a place of business at PLANO, TEXAS, desires to acquire, and I desire to grant to the ASSIGNEE, my entire worldwide right, title, and interest in and to the Invention and in and to any and all patent applications and patents directed thereto; TOYOTA MOTOR NORTH AMERICA, INC., 6565 HEADQUARTERS DRIVE W1-3C, PLANO, TEXAS, 75024.

Now, therefore, for good and valuable consideration, the receipt and sufficiency thereof being hereby acknowledged, I hereby sell or have sold, assign or have assigned, and otherwise transfer or have transferred to the ASSIGNEE, its successors, legal representatives, and assigns, my entire worldwide right, title, and interest in and to the Invention, the above-identified United States patent application, and any and all other patent applications and patents for the Invention which may be applied for or granted therefor in the United States and in all foreign countries and jurisdictions, including all divisions, continuations, reissues, reexaminations, renewals, extensions, counterparts, substitutes, and extensions thereof, and all rights of priority resulting from the filing of such applications and granting of such patents. In addition, I hereby authorize and request the Director of the United States Patent and Trademark Office to issue any United States Patent, and foreign patent authorities to issue any foreign patent, granted for the Invention, to the ASSIGNEE, its successors, legal representatives, and assigns, my entire worldwide right, title, and interest in and to the same to be held and enjoyed by the ASSIGNEE, its successors, legal representatives, and assigns to the full end of the terms for which any and all such patents may be granted, as fully and entirely as would have been held and enjoyed by me had this Assignment not been made; and I agree to execute any and all documents and instruments and perform all lawful acts reasonably related to recording this Assignment or perfecting title to the Invention and all

related patents and applications, in the ASSIGNEE, its successors, legal representatives, and assigns, whenever requested by the ASSIGNEE, its successors, legal representatives, or assigns.

I acknowledge my prior and ongoing obligations to sell, assign, and transfer my rights under this Assignment to the ASSIGNEE and am unaware of any reason why I may not have the full and unencumbered right to sell, assign, and transfer my rights hereby sold, assigned, and transferred, and have not executed, and will not execute, any document or instrument in conflict herewith. I also hereby grant the ASSIGNEE, its successors, legal representatives, and assigns, the right to insert in this Assignment any further identification (including, but not limited to, patent Application Number) which may be necessary or desirable for recordation of this Assignment. This Assignment is governed by the substantive laws of the State of California, and any disputes will be resolved in a California state court or federal court sited in California.

I hereby acknowledge that any willful false statement made in this declaration is punishable under 18 U.S.C. 1001 by fine or imprisonment of not more than five (5) years, or both.

1. Legal Name of Inventor: Jaya Bharath R. Goluguri	
Signature: Willy Mouah Riddy	Date: 03/25/2019
2. Legal Name of Inventor: Felipe G. Salles	
Signature:	Date:
	00000011110000111100001111111111111111
3. Legal Name of Inventor: Christopher J. Risberg	
Signature:	Date:
4. Legal Name of Inventor: Joshua C. Batie	
Signature:	Date:

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1. Legal Name of Inventor: Jaya Bharath R. Goluguri	
Signature:	Dates
2. Legal Name of Inventor: Felipe G. Salles Signature:	Date: 3/21/2019
3. Legal Name of Inventor: Christopher J. Risberg	
Signature:	Date:
4. Legal Name of Inventor: Joshua C. Batie	
Signature:	Date≝

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Signature:	Date:	
So a supply that is a supply to the supply t		
2. Legal Name of Inventor: Felipe G. Salles		
Signature:	Date:	····
3. Legal Name of Inventor Christophen J. Risbers Signature:	Date: <u> </u>	12019
4. Legal Name of Inventor: Joshua C. Batie		
Signature:	Date:	

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1. Legal Name of Inventor: Jaya Bharath R. Goluguri		
Signature:	Date;	
2. Legal Name of Inventor: Felipe G. Salles		
Signature:	Date:	
3. Legal Name of Inventor: Christopher J. Risberg		
Signature:	Date:	
4. Legal Name of Inventor: Joshua C. Batie		
Signature: <u>/ / / / / / / / / / / / / / / / / / /</u>	Date: <u></u>	26-2019

PATENT REEL: 051237 FRAME: 0696

RECORDED: 12/10/2019