

## PATENT ASSIGNMENT COVER SHEET

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<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
TOYOTA MOTOR ENGINEERING & MANUFACTURING NORTH AMERICA, INC.	10/11/2021
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<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Patent Number:</b>	11148620
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<b>NAME OF SUBMITTER:</b>	DUSTIN T. JOHNSON
<b>SIGNATURE:</b>	/Dustin T. Johnson/
<b>DATE SIGNED:</b>	10/29/2021
<b>Total Attachments: 2</b>	
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## ASSIGNMENT

WHEREAS, **TOYOTA MOTOR ENGINEERING & MANUFACTURING NORTH AMERICA, INC.** ("**ASSIGNOR**"), a corporation of the United States of America, with offices located at 6565 Headquarters Drive W1-3C, Plano, Texas 75024, is the owner of certain inventions as embodied in and represented by the Intellectual Property, as defined below.

"Intellectual Property" shall collectively mean the technology developed by **ASSIGNOR** and generally titled **VEHICLE RANGE MAXIMIZATION BASED ON EXTERNAL FACTORS**, as well as any application related thereto, including, without limitation, for which an application for a Patent of the United States was filed on **January 30, 2019**, as **U.S. Application No. 16/262,651** now **U.S. Patent No. 11,148,620**, granting **October 19, 2021**.

WHEREAS, **ASSIGNOR** is desirous of assigning all of its right in the Intellectual Property to **TOYOTA JIDOSHA KABUSHIKI KAISHA** ("**ASSIGNEE**"), a corporation, with offices located at 1, Toyota-Cho, Toyota-Shi, Aichi-Ken, Japan 471-8571.

NOW, THEREFORE, subject to the terms, conditions, covenants and provisions of this Assignment, and for other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged by **ASSIGNOR**, the parties hereto, intending legally to be bound, agree as follows:

**ASSIGNOR** hereby sells, assigns and transfers to **ASSIGNEE**, its successors and assigns, said **ASSIGNOR'S** entire right, title, and interest in the Intellectual Property, including, without limitation, (i) all United States and foreign rights therein, whether patentable or not, and in and to aforesaid patents, patent applications and any divisions or continuations thereof, and any patents or similar registrations obtained for the Intellectual Property in the United States and foreign countries, or issuing out of said application or any such division or continuation thereof, and any reissues or extensions of any such patents, as well as all rights to claim priority to any of the foregoing and (ii) all causes of action, past, present, and future, for infringement, unfair competition or otherwise with respect to the Intellectual Property and all disclosures of ideas, whether or not patentable and all pending applications.

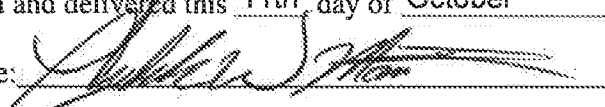
**ASSIGNOR** hereby authorizes and requests the Commissioner of Patents of the United States, and any official of any country or countries foreign to the United States, whose duty it is to issue patents or other evidence or forms of industrial property protection on applications as aforesaid, to issue the same to the said **ASSIGNEE**, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

**ASSIGNOR** hereby acknowledges that the entire beneficial interest in the Intellectual Property and to which the above application relates is irrevocably vested in the **ASSIGNEE** including the right to make the application for protection in all countries abroad and to claim priority under the International Convention for such applications and hereby assents to the making of any such applications, with or without priority claims, and of any divisional application resulting therefrom.

**ASSIGNOR** further covenants that it will at all times communicate to the **ASSIGNEE**, its successors, assigns or legal representatives, all facts relating to the Intellectual Property, or the history thereof, known to him, and testify as the same in interferences or other litigation, when requested so to do.

**TOYOTA MOTOR ENGINEERING & MANUFACTURING NORTH AMERICA, INC.**

Executed and delivered this 11th day of October 2021.

Signature: 

Printed Name: Frederick W. Mau, II

Title: Intellectual Property Counsel