

## PATENT ASSIGNMENT COVER SHEET

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<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.	03/14/2022
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<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
<b>Patent Number:</b>	11279361
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<b>ATTORNEY DOCKET NUMBER:</b>	2019-219/IP-A-3826/TMNA05
<b>NAME OF SUBMITTER:</b>	JOSEPH LUTZ
<b>SIGNATURE:</b>	/Joseph Lutz/
<b>DATE SIGNED:</b>	03/23/2022
<b>Total Attachments: 3</b>	
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## PATENT ASSIGNMENT

WHEREAS, **TOYOTA MOTOR ENGINEERING & MANUFACTURING NORTH AMERICA, INC.** (hereinafter "ASSIGNEE"), a Kentucky corporation, having a place of business at 6565 Headquarters Drive, W1-3C, Plano, Texas 75024, U.S.A., hereby represents and warrants that it is the sole and exclusive owner of all right, title, and interest in, to and under the Patent Item (as defined below).

WHEREAS, ASSIGNOR desires to sell, assign and transfer to ASSIGNEE (as defined below) the Patent Items, with an effective date as of October 17, 2017.

AND WHEREAS, **TOYOTA JIDOSHA KABUSHIKI KAISHA**, having a place of business located at 1, Toyota-Cho, Toyota-Shi, Aichi-Ken, 471-8571, JAPAN. (hereinafter "ASSIGNEE"), has agreed to acquire all right, title and interest in, to and under (i) the registered patent(s) and patent application(s) identified in the Exhibit attached hereto (hereinafter the "Exhibit I"), and all provisional applications relating thereto; (ii) all patents issuing on any patent applications identified in the Exhibit; (iii) all reissues, reexaminations, extensions, divisionals, renewals, continuations, continuations-in-part and counterparts (whether foreign or domestic) claiming priority to any of the foregoing items in (i) or (ii) above, along with all patents issuing therefrom; and (iv) all inventions and improvements claimed or described in any of the foregoing items (i), (ii) or (iii) (subsections (i), (ii), (iii) and (iv) hereinafter collectively referred to as the "Patent Items").

NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, these parties hereto agree as follows:

ASSIGNOR does hereby sell, assign, transfer, convey and deliver unto ASSIGNEE, its successors, legal representatives and assigns, all right, title and interest throughout the world in, to and under the Patent Items, including without limitation all foreign patents and any rights of priority based on or relating to the Patent Items.

AND ASSIGNOR hereby authorizes and requests the Commissioner of Patents of the United States of America, and any Official of any country or countries foreign to the United States of America, whose duty it is to issue patents on applications, to issue all patents for the Patent Items to ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this Patent Assignment.

AND ASSIGNOR hereby sells, assigns, transfers, conveys and delivers to ASSIGNEE, its successors, legal representatives and assigns, all rights of enforcement, all claims for damages and all remedies arising out of, relating to or resulting from the Patent Items or any violations thereof, whether accrued prior to the date of this Patent Assignment or hereafter, including but not limited to the right to sue for, seek, collect, recover and retain damages and any other relief arising out of or resulting from any past, present or future infringement or violation of any of the Patent Items, and all other rights, including common law rights, that ASSIGNOR may have relating to the Patent Items, including but not limited to any ongoing or prospective royalties to which ASSIGNOR may be entitled, or that ASSIGNOR may collect for any infringements of any of the Patent Items or from any settlement or agreement related to the Patent Items arising before or after the date of this

Patent Agreement, such rights to be held and enjoyed by ASSIGNEE, its successors, legal representatives and assigns, as fully and entirely as the same would have been held and enjoyed by ASSIGNOR if this Patent Assignment had not been made.

**AND ASSIGNOR** hereby represents and warrants that it has full right, power and authority to sell, assign, transfer, convey and deliver all of the subject matter set forth herein, and hereby covenants and agrees that upon the written request of ASSIGNEE, ASSIGNOR will communicate promptly to ASSIGNEE, its successors, legal representatives and assigns, all facts known to ASSIGNOR respecting the Patent Items, and will testify in any legal proceeding, sign all lawful papers, transfer all file histories, make diligent effort to find or reach every inventor of the Patent Items necessary or appropriate in connection with preparation of any lawful document or proceeding relating to the Patent Items, make reasonable efforts to obtain all necessary or appropriate signed and executed documents relating to the Patent Items from every inventor named in the Patent Items, make all rightful declarations and/or oaths and generally do everything possible to aid ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce patent protection for the Patent Items on a worldwide basis in all countries. ASSIGNEE further covenants and agrees that it will wholly refrain from challenging the validity, enforceability or scope of the Patent Items, whether through opposition, re-examination and/or court proceedings.

IN WITNESS WHEREOF, I hereunto set my hand this 14th day of March, 2022.

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

By 

Printed Name: Frederick W. Mau, II

Title: Intellectual Property Counsel

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**EXHIBIT 1**

**Patent Schedule**

Docket / Reference Number	Country	Title	Application Number	National Filing Date	Patent Number	Grant Date
2019-219 / IP-A-3826	United States	EFFICIENCY IMPROVEMENT FOR MACHINE LEARNING OF VEHICLE CONTROL USING TRAFFIC STATE ESTIMATION	16/503,204	July 3, 2019	11,279,361	March 22, 2022