

PATENT ASSIGNMENT COVER SHEET

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SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT
CONVEYING PARTY DATA	
Name	Execution Date
TOYOTA RESEARCH INSTITUTE, INC.	10/24/2022
RECEIVING PARTY DATA	
Name:	TOYOTA JIDOSHA KABUSHIKI KAISHA
Street Address:	1, TOYOTA-CHO, TOYOTA-SHI
City:	AICHI-KEN
State/Country:	JAPAN
Postal Code:	471-8571
PROPERTY NUMBERS Total: 1	
Property Type	Number
Patent Number:	11475628
CORRESPONDENCE DATA	
Fax Number:	(310)201-5219
<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:	3102777200
Email:	LAXIPDocket@seyfarth.com
Correspondent Name:	SEYFARTH SHAW LLP / TOYOTA RESEARCH INSTITUTE INC.
Address Line 1:	2029 CENTURY PARK EAST, SUITE 3500
Address Line 4:	LOS ANGELES, CALIFORNIA 90067-3021
ATTORNEY DOCKET NUMBER:	2020-454/IP-A-4874/TRI214
NAME OF SUBMITTER:	JOSEPH LUTZ
SIGNATURE:	/Joseph Lutz/
DATE SIGNED:	12/13/2022
Total Attachments: 3	
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source=IP-A-4874 2020-454 Assignment_TJKK_signed#page3.tif	

PATENT ASSIGNMENT

WHEREAS, **TOYOTA RESEARCH INSTITUTE, INC.**, a California corporation, having a place of business at 4440 El Camino Real, Los Altos, California 94022, U.S.A. (hereinafter "**ASSIGNOR**"), 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 1**"), 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, there 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 day 10/24/2022.

TOYOTA RESEARCH INSTITUTE, INC.

DocuSigned by:
By: Phillip Zackler
F1975086918E4C0

Printed Name: Phillip Zackler

Title: General Counsel & Vice President of Operations

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EXHIBIT 1

Patent Schedule

Docket / Reference Number	Country	Title	Application Number	National Filing Date	Patent Number	Grant Date
2020-454 / IP-A-4874	United States	MONOCULAR 3D VEHICLE MODELING AND AUTO-LABELING USING SEMANTIC KEYPOINTS	17/147,049	January 12, 2021	11,475,628	October 18, 2022

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