

## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1  
 Stylesheet Version v1.2

EPAS ID: PAT6511619

<b>SUBMISSION TYPE:</b>	NEW ASSIGNMENT
<b>NATURE OF CONVEYANCE:</b>	ASSIGNMENT
<b>CONVEYING PARTY DATA</b>	
<b>Name</b>	<b>Execution Date</b>
SHUNSHO KAKU	12/01/2020
JEFFREY MICHAEL WALLS	12/04/2020
RYAN WOLCOTT	12/04/2020
<b>RECEIVING PARTY DATA</b>	
<b>Name:</b>	TOYOTA RESEARCH INSTITUTE, INC.
<b>Street Address:</b>	4440 EL CAMINO REAL
<b>City:</b>	LOS ALTOS
<b>State/Country:</b>	CALIFORNIA
<b>Postal Code:</b>	94022
<b>PROPERTY NUMBERS Total: 1</b>	
<b>Property Type</b>	<b>Number</b>
Application Number:	17118097
<b>CORRESPONDENCE DATA</b>	
<b>Fax Number:</b>	(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>	
<b>Phone:</b>	3102777200
<b>Email:</b>	LAXIPDocket@seyfarth.com
<b>Correspondent Name:</b>	SEYFARTH SHAW LLP / TOYOTA RESEARCH INSTITUTE INC.
<b>Address Line 1:</b>	2029 CENTURY PARK EAST, SUITE 3500
<b>Address Line 4:</b>	LOS ANGELES, CALIFORNIA 90067-3021
<b>ATTORNEY DOCKET NUMBER:</b>	2020-426/IPA-4836/TRI-208
<b>NAME OF SUBMITTER:</b>	JOSEPH LUTZ
<b>SIGNATURE:</b>	/Joseph Lutz/
<b>DATE SIGNED:</b>	01/22/2021
<b>Total Attachments: 6</b>	
source=2020-426 TRI Assignment signed SK-JMW-RW#page1.tif	
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**PATENT**

**REEL: 055006 FRAME: 0581**

**ASSIGNMENT**

WHEREAS, WE,

1. **Shunsho KAKU**, a citizen of Japan, having a mailing address located at 4440 El Camino Real, Los Altos, California 94022, U.S.A. and a resident of Mountain View, California,
2. **Jeffrey Michael WALLS**, a citizen of the United States of America, having a mailing address located at 4440 El Camino Real, Los Altos, California 94022, U.S.A. and a resident of Mountain View, California,
3. **Ryan WOLCOTT**, a citizen of the United States of America, having a mailing address located at 4440 El Camino Real, Los Altos, California 94022, U.S.A. and a resident of Ann Arbor, Michigan

have conceived of one or more processes, methods, machines, articles of manufacture, designs, compositions of matter, inventions, discoveries or new or useful improvements relating to **LEARNING-BASED ONLINE MAPPING** (collectively the “**INVENTIONS**”) for which WE have executed and/or may execute one or more patent applications therefor; and

WHEREAS, **TOYOTA RESEARCH INSTITUTE, INC.** (hereinafter “**ASSIGNEE**”), a California corporation, having a place of business at 4440 El Camino Real, Los Altos, California 94022, U.S.A., desires to acquire or otherwise obtain the entire right, title, and interest in and to said **INVENTIONS**, including all inventions related thereto or thereof, all patent applications therefor, and all patents that have granted or may be granted hereafter thereon, including but not limited to those identified below.

NOW, THEREFORE, for good and valuable consideration, the receipt of which is hereby acknowledged, WE do hereby acknowledge that WE have sold, assigned, conveyed, and transferred, and by these presents do hereby sell, assign, convey, and transfer, unto **ASSIGNEE**, its successors, its legal representatives, and its assigns, the entire right, title, and interest throughout the world in and to said **INVENTIONS**, including all patent applications therefor that may have been filed or may be filed hereafter for said **INVENTIONS** in the United States, including but not limited to U.S. Application No(s). \_\_\_\_\_ filed \_\_\_\_\_, TRI Reference No. **2020-426 / IP-A-4836**, and all provisional applications relating thereto, , (and do hereby authorize **ASSIGNEE** and its representative to hereafter add herein such application number(s) and/or filing date(s) when known), and all divisional applications, renewal applications, continuation applications, continuation-in-part applications, and design applications thereof, and all issued patents of the United States which may have granted or may be granted hereafter thereon and all reissues, renewals, reexaminations, and extensions to any of the foregoing and all patents issuing thereon in the United States;

AND WE further do acknowledge and agree that WE have sold, assigned, conveyed, and transferred, and by these presents do hereby sell, assign, convey, and transfer, unto **ASSIGNEE**, its successors, its legal representatives, and its assigns, all rights of priority under International Conventions, Treaties, or Agreements, and the entire right, title, and interest throughout the world in said **INVENTIONS**, including all inventions related thereto or thereof, and all patent

in any foreign country, countries, or treaty/union organizations, and all divisional applications, renewal applications, continuation applications, continuation-in-part applications, patent of addition applications, confirmation applications, validation applications, utility model applications, and design applications thereof, and all issued patents which may have granted or may be granted hereafter for said INVENTIONS in any country or countries foreign to the United States, and all reissues, renewals, reexaminations, and extensions thereof;

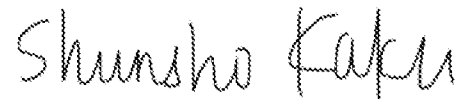
AND WE DO HEREBY authorize and request the Commissioner of Patents of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents on applications or registrations, to issue all patents for said INVENTIONS to said ASSIGNEE, its successors, its legal representatives and its assigns, in accordance with the terms of this instrument;

AND WE DO HEREBY sell, assign, transfer, and convey to said ASSIGNEE, its successors, its legal representatives, and its assigns all claims for damages and all remedies arising out of or relating to any violation(s) of any of the rights assigned hereby that have or may have accrued prior to the date of assignment to said ASSIGNEE, or may accrue hereafter, including, but not limited to the right to sue for, seek, obtain, collect, recover, and retain damages and any ongoing or prospective royalties to which WE may be entitled, or that WE may collect for any infringement or from any settlement or agreement related to any of said patents before or after issuance;

AND WE HEREBY covenant and agree that WE will communicate promptly to said ASSIGNEE, its successors, its legal representatives, and its assigns, any facts known to us respecting said INVENTIONS, and will testify in any legal proceeding, sign all lawful papers, execute all applications and certificates, make all rightful declarations and/or oaths, and provide all lawful assistance to said ASSIGNEE, its successors, its legal representatives and its assigns, to obtain and enforce patent protection for said INVENTIONS in all countries;

AND WE HEREBY covenant that WE will not execute any writing or do any act whatsoever conflicting with these presents.

Done at Mountain View, on 12/1/2020  
LOCATION DATE



Shunsho KAKU

Done at \_\_\_\_\_, on \_\_\_\_\_  
LOCATION DATE

Jeffrey Michael WALLS

Done at \_\_\_\_\_, on \_\_\_\_\_  
LOCATION DATE

Ryan WOLCOTT

**ASSIGNMENT**

WHEREAS, WE,

1. **Shunsho KAKU**, a citizen of Japan, having a mailing address located at 4440 El Camino Real, Los Altos, California 94022, U.S.A. and a resident of Mountain View, California,
2. **Jeffrey Michael WALLS**, a citizen of the United States of America, having a mailing address located at 4440 El Camino Real, Los Altos, California 94022, U.S.A. and a resident of Mountain View, California,
3. **Ryan WOLCOTT**, a citizen of the United States of America, having a mailing address located at 4440 El Camino Real, Los Altos, California 94022, U.S.A. and a resident of Ann Arbor, Michigan

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WHEREAS, **TOYOTA RESEARCH INSTITUTE, INC.** (hereinafter “**ASSIGNEE**”), a California corporation, having a place of business at 4440 El Camino Real, Los Altos, California 94022, U.S.A., desires to acquire or otherwise obtain the entire right, title, and interest in and to said **INVENTIONS**, including all inventions related thereto or thereof, all patent applications therefor, and all patents that have granted or may be granted hereafter thereon, including but not limited to those identified below.

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AND WE further do acknowledge and agree that WE have sold, assigned, conveyed, and transferred, and by these presents do hereby sell, assign, convey, and transfer, unto **ASSIGNEE**, its successors, its legal representatives, and its assigns, all rights of priority under International Conventions, Treaties, or Agreements, and the entire right, title, and interest throughout the world in said **INVENTIONS**, including all inventions related thereto or thereof, and all patent

applications therefor that may have been filed or may be filed hereafter for said INVENTIONS in any foreign country, countries, or treaty/union organizations, and all divisional applications, renewal applications, continuation applications, continuation-in-part applications, patent of addition applications, confirmation applications, validation applications, utility model applications, and design applications thereof, and all issued patents which may have granted or may be granted hereafter for said INVENTIONS in any country or countries foreign to the United States, and all reissues, renewals, reexaminations, and extensions thereof;

AND WE DO HEREBY authorize and request 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 on applications or registrations, to issue all patents for said INVENTIONS to said ASSIGNEE, its successors, its legal representatives and its assigns, in accordance with the terms of this instrument;

AND WE DO HEREBY sell, assign, transfer, and convey to said ASSIGNEE, its successors, its legal representatives, and its assigns all claims for damages and all remedies arising out of or relating to any violation(s) of any of the rights assigned hereby that have or may have accrued prior to the date of assignment to said ASSIGNEE, or may accrue hereafter, including, but not limited to the right to sue for, seek, obtain, collect, recover, and retain damages and any ongoing or prospective royalties to which WE may be entitled, or that WE may collect for any infringement or from any settlement or agreement related to any of said patents before or after issuance;

AND WE HEREBY covenant and agree that WE will communicate promptly to said ASSIGNEE, its successors, its legal representatives, and its assigns, any facts known to us respecting said INVENTIONS, and will testify in any legal proceeding, sign all lawful papers, execute all applications and certificates, make all rightful declarations and/or oaths, and provide all lawful assistance to said ASSIGNEE, its successors, its legal representatives and its assigns, to obtain and enforce patent protection for said INVENTIONS in all countries;

AND WE HEREBY covenant that WE will not execute any writing or do any act whatsoever conflicting with these presents.

Done at \_\_\_\_\_, on \_\_\_\_\_  
LOCATION DATE Shunsho KAKU

Done at \_MtnView, CA\_, on \_2020/12/4\_  
LOCATION DATE /Jeffrey Michael Walls/  
Jeffrey Michael WALLS

Done at \_\_\_\_\_, on \_\_\_\_\_  
LOCATION DATE Ryan WOLCOTT

## ASSIGNMENT

WHEREAS, WE,

1. **Shunsho KAKU**, a citizen of Japan, having a mailing address located at 4440 El Camino Real, Los Altos, California 94022, U.S.A. and a resident of Mountain View, California,
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in any foreign country, countries, or treaty/union organizations, and all divisional applications, renewal applications, continuation applications, continuation-in-part applications, patent of addition applications, confirmation applications, validation applications, utility model applications, and design applications thereof, and all issued patents which may have granted or may be granted hereafter for said INVENTIONS in any country or countries foreign to the United States, and all reissues, renewals, reexaminations, and extensions thereof;

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Done at \_\_\_\_\_, on \_\_\_\_\_  
LOCATION DATE Shunsho KAKU

Done at \_\_\_\_\_, on \_\_\_\_\_  
LOCATION DATE Jeffrey Michael WALLS

Done at Ann Arbor, MI, on 12/4/2020  
LOCATION DATE   
Ryan WOLCOTT